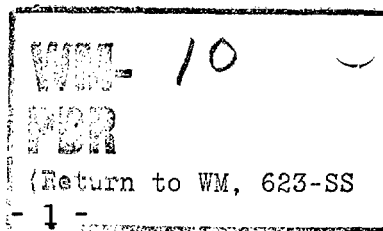


3104/RJW/82/10/29/0

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MEMORANDUM FOR: Regis Bolye, WMHL
F. Robert Cook, WMHL
Malcolm Knapp, WMHL
Philip S. Justus, WMHT
John T. Greeves, WMHT
Paul T. Prestholt, WMHT
Tilak R. Verma, WMHT

FROM: Robert J. Wright, WMHT

SUBJECT: SCHEDULES FOR PRODUCTION OF THE BWIP DRAFT SITE
CHARACTERIZATION ANALYSIS

Attached are three documents that set forth plans for development of the DSCA for BWIP. Each serves a somewhat different purpose.

"Schedules of Draft SCA" is intended to identify the various products needed, with a due date and responsibility for each. Please advise me if you perceive any misrepresentation of products for which you are responsible.

Following "Schedules of Draft SCA" is a set of four network charts showing the sequence of parallel activities for the SCA and associated products. These will appear in the updated SCR review plan to be finalized within the next few days.

"Detail of DSCA Preparation" is intended to describe the sequence of daily activities between December 10, when Draft 1 of the DSCA is due, and January 21, when the DSCA is expected to be distributed by WMHL and WMHT for internal review by Jack Martin, John Davis, ELD and RES. You will note that both Martin and Davis are expected to be involved in preparation of the DSCA prior to January 21. Also, it should be noted that the detailed schedule is directed toward DSCA distribution on

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January 19, thus allowing for two day's cumulative slippage due to unforeseen, unavoidable causes.

"ORIGINAL SIGNED BY"

Robert J. Wright
Senior Technical Advisor
High-Level Waste Management
Development Branch
Division of Waste Management

Enclosures:

1. Schedules of Draft SCA
2. Overall Site Characterization Analysis Sequence
3. Details of DSCA Preparation

cc: M. J. Bell, WMHL
H. J. Miller, WMHT
S. M. Coplan, WMHT
R. Johnson, WMHT
R. B. Uleck, WMHT

OFC	:	WMHT	:	WMHT	:	:	:	:	:
NAME	:	RJWright:dm	:	HJMiller	:	:	:	:	:
DATE	:	11/8/82	:	11/8/82	:	:	:	:	:

1
SCHEDULES OF DRAFT SCA

PRODUCT	RESPI	PLANNING			*REVIEW STAGES							
		COMPLETE OUTLINE	COMPLETE DETAILED SCHEDULE	COMPLETE MOCK-UP	DRAFT 1	REVIEW 1	DRAFT 2	DRAFT 3	REVIEW 3	DRAFT 4	REVIEW 4	FINAL DISTD

TEXT

EXECUTIVE SUMMARY	RW				12/27	12/28	12/29	1/5	1/6	1/11	1/13	1/21
DIRECTOR'S OPINION	RW			10/29	12/27	12/28	12/29	1/5	1/6	1/11	1/13	1/21
1. INTRODUCTION - DESCRIPTION OF LICENSING AND SITE CHARACTERIZATION PROCESS	RW/RU	10/22			11/5	11/12	12/22	1/5	1/6	1/11	1/13	1/21
2. DESCRIPTION OF FACILITY AND CONCEPTUAL DESIGN	JG			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
3. SITE SELECTION PROCESS	RB			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
4. GROUNDWATER	TV			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
5. GEOLOGIC STABILITY	PP			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
6. GEOCHEMICAL RETARDATION	PJ			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
7. DESIGN OF FACILITIES	JG			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21

*Note In drafts 1 and 2, the DSCA chapters are treated separately. Beginning with draft 3, the DSCA is treated as a single document.

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2
SCHEDULES OF DRAFT SCA

PRODUCT	RESP	PLANNING			*REVIEW STAGES							
		COMPLETE OUTLINE	COMPLETE DETAILED SCHEDULE	COMPLETE MOCK-UP	DRAFT 1	REVIEW 1	DRAFT 2	DRAFT 3	REVIEW 3	DRAFT 4	REVIEW 4	FINAL DISTD
8. WASTE PACKAGE/ WASTE FORM	RC			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
9. INSTITUTIONAL AND ENVIRONMENTAL FACTORS	RB			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
10. QUALITY ASSURANCE PROGRAM	JG			10/29	12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
11. PERFORMANCE ASSESSMENT	MK				12/10	12/15	12/22	1/5	1/6	1/11	1/13	1/21
12. SUMMARY OF NRC CONCERNS/ COMMENTS/ OPEN ITEMS	PP			10/29	12/28	12/30	1/4	1/5	1/6	1/11	1/13	1/21
A MAPS AND SECTIONS OF HANFORD RESER- VATION	PP			12/19	12/10	12/15	FINAL 12/22					
B TABLE OF CONTENTS OF SITE CHARACTERI- ZATION REPORT	RW				FINAL 12/10							
C TABULATION OF SC ISSUES	RJ				10/18	10/20	10/25	10/27	11/1	11/3	12/3	FINAL 12/3
D. SENSITIVITY ANALYSES	MK				10/29	11/5	FINAL 11/15					

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3
SCHEDULES OF DRAFT SCA

		RESP	PLANNING			*REVIEW STAGES							
PRODUCT			COMPLETE OUTLINE	COMPLETE DETAILED SCHEDULE	COMPLETE MOCK-UP	DRAFT 1	REVIEW 1	DRAFT 2	DRAFT 3	REVIEW 3	DRAFT 4	REVIEW 4	FINAL DISTD
E.	MULTIPLE WELL TEST	TV				11/1	11/8	12/3					
F.	HYDROCHEMISTRY USED FOR FLOW SYSTEM INTERPRE- TATION	TV				11/1	11/8	12/3					
G.	PACKERS FOR HYDRAULIC HEAD MEASUREMENTS	TV				11/1	11/8	12/3					
H.	DATA INTERGRA- TION FOR CON- CEPTUAL MODELS OF HYDROSTRATI- GRAPHY	TV				11/1	11/8	12/3					
I.	EFFECTS OF DRILLING MUD	TV				11/1	11/8	12/3					
J.	STATISTICAL EVALUATION OF HYDROCHEMISTRY	TV				11/1	11/8	12/3					
K.	SKIN EFFECT	TV				11/1	11/8	12/3					
L.	MODELING - BENCH- MARK PROBLEMS ETC.	TV				11/1	11/8	12/3					
M.	TEMPERATURE AND PRESSURE COR- RECTIONS TO HEAD	TV				11/1	11/8	12/3					

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4
SCHEDULES OF DRAFT SCA

PRODUCT	RESP	PLANNING			*REVIEW STAGES							
		COMPLETE OUTLINE	COMPLETE DETAILED SCHEDULE	COMPLETE MOCK-UP	DRAFT 1	REVIEW 1	DRAFT 2	DRAFT 3	REVIEW 3	DRAFT 4	REVIEW 4	FINAL DISTD
N. EFFECTS OF DRILL- ING MUD	TV				11/1	11/8	12/3					
O. HYDROSTRATIGRAPHY AND GEOLOGIC CONTROLS	TV				1st draft will not be finished by 11/1							
P. FAILURE/DEGRADA- TION MODES FOR THE WASTE FORM AND METALLIC WASTE PACKAGE COMPON- ENT	RC				11/8	12/3	12/3					
Q. ENVIRONMENTAL CONDITIONS FOR THE WASTE FORM AND METALLIC WASTE PACKAGE COMPONENT	RC				11/8	12/3	12/3					
R. MECHANISMS FOR TRANSPORT OF RADIONUCLIDES FROM THE WASTE TO THE BACKFILL	RC				11/8	12/3	12/3					
S. DETERMINATION AND INTERPRETA- TION OF REDOX CONDITIONS AND CHANGES IN UNDER- GROUND HIGH-LEVEL												

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5
SCHEDULES OF DRAFT SCA

PRODUCT	RESP	PLANNING			*REVIEW STAGES							
		COMPLETE OUTLINE	COMPLETE DETAILED SCHEDULE	COMPLETE MOCK-UP	DRAFT 1	REVIEW 1	DRAFT 2	DRAFT 3	REVIEW 3	DRAFT 4	REVIEW 4	FINAL DISTD
WASTE REPOSITOR- IES	PJ				11/1	11/8	12/3					
T. DETERMINATION AND INTERPRETA- TION OF SORPTION DATA APPLIED TO RADIONUCLIDE MIGRATION IN UNDERGROUND FACILITIES	RJ				11/1	11/8	12/3					
U. DETERMINATION AND INTERPRETA- TION OF SPECIA- TION AND SOLU- BILITIES OF RADIONUCLIDES IN UNDERGROUND HIGH- LEVEL WASTE REPOSITORIES	RJ				11/1	11/8	12/3					
V. STABILITY OF OPENINGS	JG				11/1	11/8	12/3					
W. RELEASE RATE FROM THE EN- GINEERED SYSTEM	JG				11/1	11/8	12/3					
X. RETRIEVABILITY SYSTEMS	JG				11/1	11/8	12/3					
Y. UNDERGROUND TESTING	JG				11/1	11/8	12/3					

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SCHEDULES OF DRAFT SCA

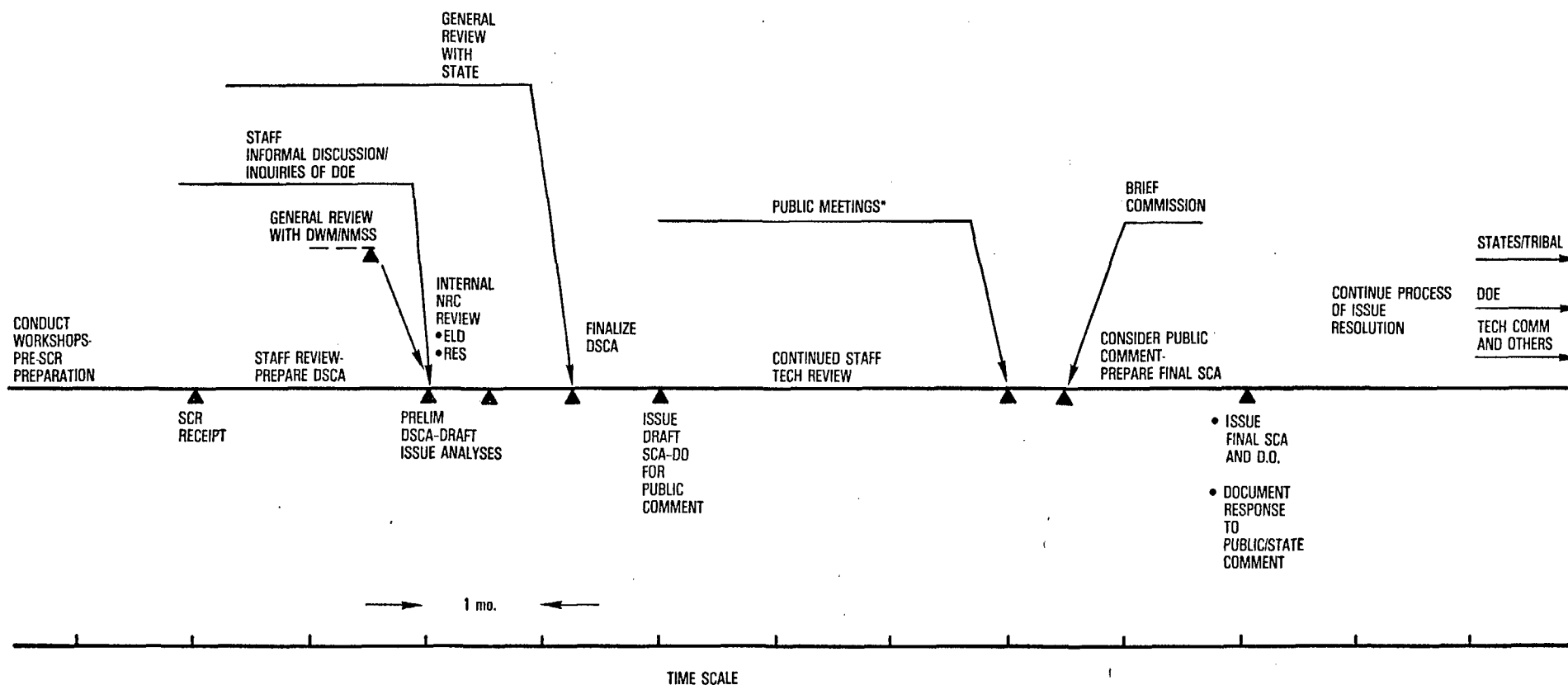
PRODUCT	RESP	PLANNING			*REVIEW STAGES							
		COMPLETE OUTLINE	COMPLETE DETAILED SCHEDULE	COMPLETE MOCK-UP	DRAFT 1	REVIEW 1	DRAFT 2	DRAFT 3	REVIEW 3	DRAFT 4	REVIEW 4	FINAL DISTD
Z. SEISMIC HAZARD AT HANFORD	PP				11/1	11/8	12/3					
AA. EARTHQUAKE SWARMS IN THE COLUMBIA PLATEAU	PP				11/1	11/8	12/3					
BB. GROUND MOTION AT THE SURFACE AND SUBSURFACE	PP				11/1	11/8	12/3					

SCHEDULE FOR SITE ISSUE ANALYSES

SITE ISSUE ANALYSES	AS ASSIGNED	11/4	11/12	12/3	<u>FINAL</u> 12/30
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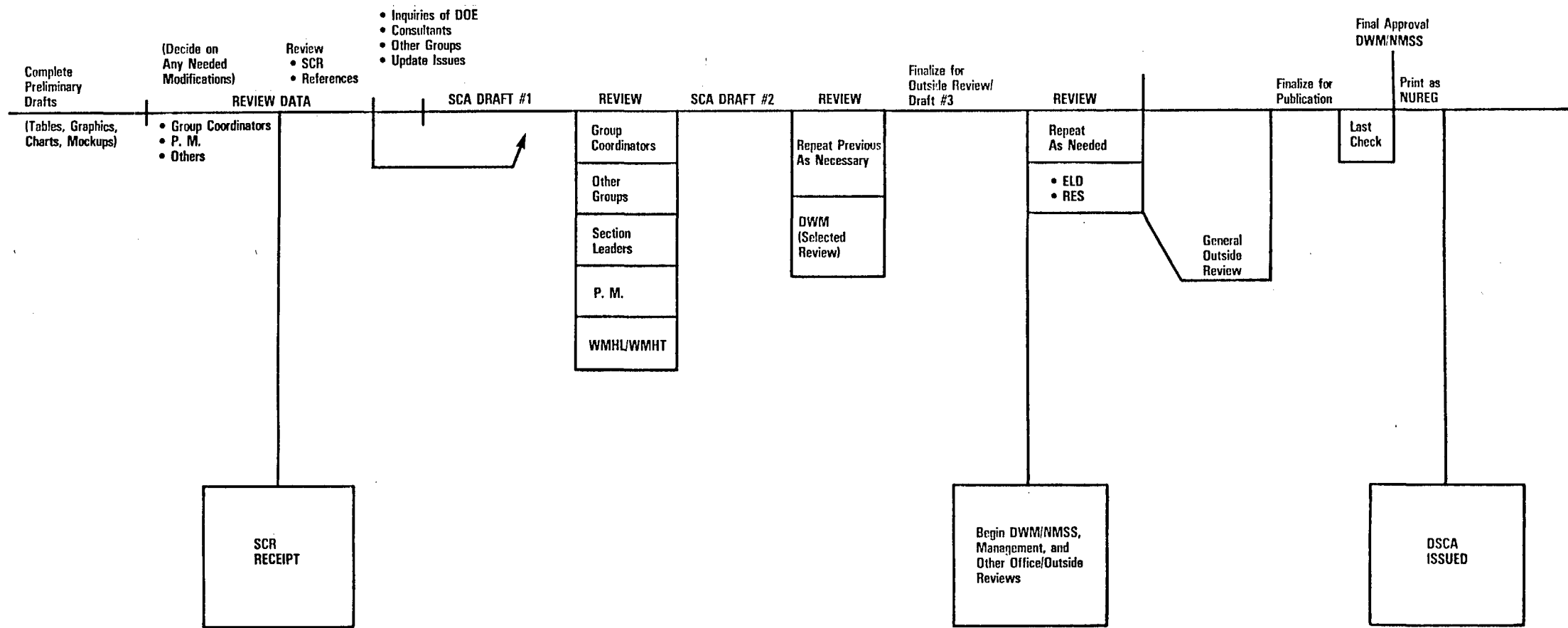
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OVERALL SITE CHARACTERIZATION ANALYSIS SEQUENCE



* Not required by rule.
May be coordinated with public meetings by the State and DOE.
Timing may also differ in some cases.

**DSCA-DOCUMENT DEVELOPMENT AND REVIEW-
GENERAL SEQUENCE**

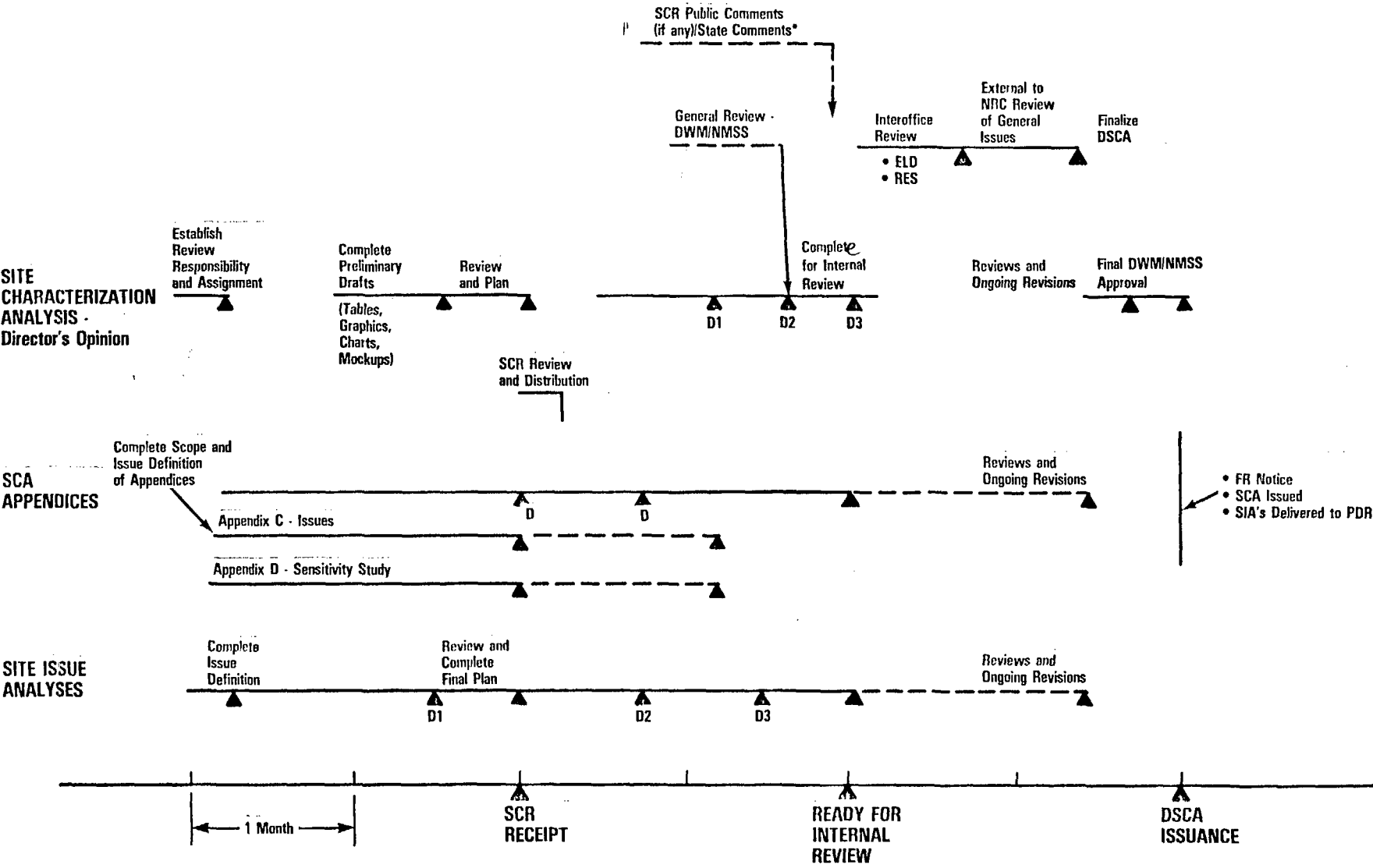


SCA PRODUCTS - INTEGRATED SEQUENCE AND SCHEDULE**

DOE
INTERACTIONS

Workshops

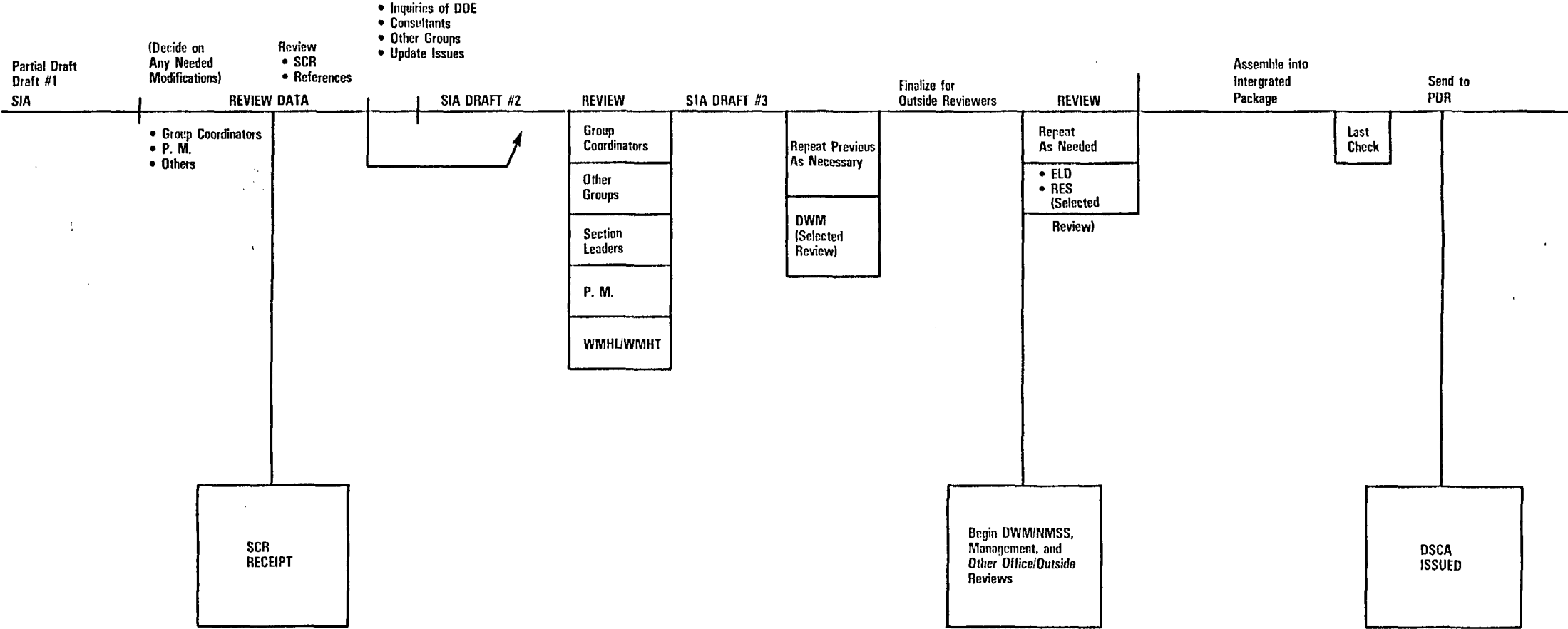
Informal Inquiries of DOE



* Public comment on DOE'S SCR will be considered to the extent practicable. Arrangements for interfaces with states will be determined on a case by case basis

** The interior milestones shown are approximately located with the time scale at the bottom of the figure

**SIA DOCUMENT DEVELOPMENT AND REVIEW -
GENERAL SEQUENCE**



11/2/82

DETAILS OF DSCA PREPARATION

<u>DATE</u>	<u>ACTIVITY</u>	<u>RESP.</u>
DEC Fr 10	Draft 1 completed; distributed to BC, SL, GC, PM for review and comment. Draft 1 comprises introduction and 11 chapters, all being separate documents.	GC, PM
Sa 11		
Su 12		
Mo 13		
Tu 14		
We 15	Review 1 completed; comments delivered to authors for integration into Draft 2.	BC, SL, GC, PM
Th 16		
Fr 17		
Sa 18		
Su 19		
Mo 20	Draft 2 delivered to CRESS by COB.	GC, PM
Tu 21	Draft 2 produced.	CRESS
We 22	Draft 2 delivered to PM for preparation of Draft 3; to BC, SL, GC for information.	
Th 23		
Fr 24	HOLIDAY	
Sa 25		
Su 26		
Mo 27	Draft 1 of Executive Summary and Directors Opinion delivered to CRESS by COB.	PM
Tu 28	Draft 1 of E.S. and D.O. produced.	CRESS
We 29	Draft 2 of E.S. and D.O. prepared.	PM
Th 30	Draft 2 of E.S. and D.O. reviewed orally with BC, SL, GC; comments integrated into Draft 3 of E.S. and D.O.	
Fr 31	HOLIDAY	PM

BC-Branch Chiefs; SL-Section Leaders; GC-Group Coordinators; PM-Project Manager; JM-Jack Martin; JD-John Davis

11/2/82

<u>DATE</u>	<u>ACTIVITY</u>	<u>RESP.</u>
JAN		
Sa 1		
Su 2		
Mo 3	Draft 3 of E.S. and D.O. prepared; reviewed orally with JM and JD; integrated into Draft 3 of DSCA.	PM
Tu 4	Draft 3 of DSCA (complete text without appendices) delivered to CRESS.	PM
We 5	Draft 3 produced Draft 3 delivered to JM, BC, SL, GC for review; to NRC editor for information.	CRESS
Th 6	Review comments on Draft 3 delivered to PM for integration into Draft 4.	PM JM, BC SL, GC
Fr 7		
Sa 8		
Su 9		
Mo 10	Draft 4 (complete text with appendices) delivered to CRESS by COB.	PM
Tu 11	Draft 4 produced.	CRESS
We 12	Draft 4 delivered to SL and GC for review and concurrence; to JM and BC for review; to editor for information. Note: each SL and GC concurs in portions dealing with his area of technical responsibility.	
Th 13	Review comments delivered to PM for integration into DSCA.	PM JM, SL BC, GC, BC, GC PM
Fr 14	DSCA prepared.	
Sa 15		
Su 16		
Mo 17	DSCA delivered to CRESS by COB.	PM
Tu 18	DSCA produced.	CRESS
We 19	DSCA copies made and distributed; to editor for editorial action; to internal review (JM, JD, ELD, RES) for comment.	