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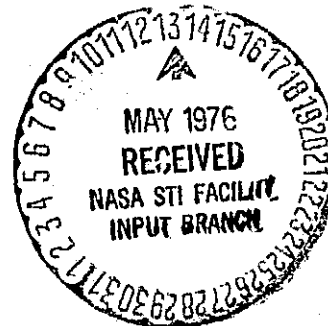
SMS
Design Review Plan

"Preliminary" - NASA Approval Pending

NASA Contract NAS-9-14910
Type 1 Data

Date: 2 April 1976

Singer
Simulation Products
Division
Binghamton, New York

SMS PDR PLAN

FOREWORD

The SMS PDR Plan is submitted incrementally 15 days prior to
the associated PDR's. The initial release contains a complete
schedule for all PDR's plus the agendas for the first PDR's
scheduled. Subsequent releases will include only the agendas
for the related PDR's, plus an updated PDR schedule (if
applicable).

SMS PDR PLAN

Table of Contents

Preliminary Design Review Plan
DRL Item 3, DRD MA-069TC

1.0   General

The Preliminary Design Reviews (PDR's) for the SMS
will be held incrementally consistent with the activity schedules
for the respective subsystems and Work Packages. The remainder
of this paragraph describes general ground rules for each PDR
to be held. The specific agendas for each paragraph are
described in paragraph 2.

Reviews will be held at the location (Houston - Bingham-
ton or APO) responsible for design activities. A Singer
representative will be assigned to take minutes at each PDR;
these minutes will be signed off by both NASA and Singer to
signify completion of each PDR. These minutes will be incorporated
into the Design Review Summary Report (DRL Item 4, DRD CM-024TC).

The documentation submitted for use during the PDR's
includes:

For Software PDR's

1)   Preliminary Interface Control Documents (DRL
Item 12, DRD CM022TB) (When applicable).

2)   System Performance Requirements (Part of DRL
Item 23, DRD SE-079TA)

3)   Deviations and Trade-Offs (Part of DRL Item 23,
DRD SE-079TA).

4)   Assumptions (DRL Item 27, DRD SE-084TB).

5) Design Data List (DRL Item 27, DRD SE-084TB)

For Hardware PDR's

1) Preliminary Interface Control Documents (When applicable).

2) CEI Specifications, Part I (DRL Item 8, DRD SE-227T).

3) Deviations and Trade-Offs (Part of DRL Item 23, DRD SE-079TA).

4) Assumptions (DRL Item 27, DRD SE-084TB)

5) Design Data List (DRL Item 27, DRD SE-084TB).

Changes to Type I documentation (CEI Specification or the Interface Control Document), when agreed to during a PDR, will be incorporated into the documents via a formal change notice.

2.0   PDR Agendas

The following sheets give the agendas for each PDR, plus the date and time for each technical subject to be covered.

SMS PDR Plan

Release Control Sheet

First Release - 2 April 1976

This release of the PDR Plan consists of the following section(s):

Section	Description
20	Crew Station
22	Instructor/Operator Station
24	Signal Conversion & Ancillary

2.0   PDR AGENDA

April 20, 1976 - WP #2 (Power and Grounding)

Description	Time	Name
Introduction & Overall Requirements	9:00 AM	T. Gerek
Power and Grounding Hardware Design	9:10 AM	F. Carver
CEI Review	10:30	T. Gerek
Data Book Review	10:45	T. Gerek
Open Discussion	10:50	

WP #20 (Crew Station)

Description	Time	Name
Introduction & Overall Requirements	1:00 PM	T. Gerek
Controls & Display Hardware Design	1:15	A. Ulangca/T. Gerek
Fwd Structure Hardware Design	2:30	T. Gerek/J. Donnello
CEI Review	2:50	A. Ulangca
Data Book Review	3:15	A. Ulangca/J. Donnell
Open Discussion	3:30	

April 21, 1976 - WP #22 (IOS)

Description	Time	Name
Intruction & Overall Requirements	9:00 AM	T. Gerek
IS/OS Console Panel Design	9:10 AM	D. Bailey/A. Ulangca
CRT Hardware Design	10:30 AM	C. Mortiner
CEI & Data Book Review	11:30 AM	T. Gerek/A. Ulangca
Lunch	12:00 AM	
Open Discussion	1:00 PM	

3.0   PDR/CDR SCHEDULE

SMS PDR/CDR
SCHEDULES FBCSS

WP		WEEK ENDING DATES PDR	CDR
1	1.2.1.1-EPS-FCP	8/20/6	11/12/6
	PSRD	10/22/6	12/17/6
	EPDCS	10/22/6	12/17/6
2	1.2.1.2-MPS-APU	8/20/6	11/26/6
	HPS	10/29/6	1/7/7
3	1.2.1.3-MPS/ET-MAIN ENG & PROPULSION	10/22/6	12/17/6
	SSMEC	10/22/6	12/17/6
4	1.2.1.4·SRB-SRB	10/29/6	12/17/6
5	1.2.1.5-RCS-RCS	9/17/6	12/10/6
6	1.2.1.6-OMS	10/15/6	12/3/6
7.	1.2.1.7-GN&C-C&D	11/12/6	1/14/7
	BMS	10/15/6	12/3/6
	IMU	10/22/6	12/3/6
	STAR TRACKER	11/12/6	1/14/7
	RENOZ RADAR	10/22/6	1/14/7
	GNCI	11/12/6	1/14/7
	ADS	11/12/6	1/14/7
	TVC	11/12/6	1/14/7
8	1.2.1.8-C&TS-CW	10/15/6	12/17/6
	PCM-MU	10/15/6	12/17/6
	MEAS PROCESS	11/5/6	12/17/6
8	1.2.1.8-C&TS-BGM SFWR	5/28/6	8/27/6
9	1.2.1.9-ECLSS-FLS	9/17/6	11/19/6
	SRS	10/22/6	12/17/6
	APS	9/17/6	12/17/6
	GSS	10/22/6	12/17/6
	ACS	9/17/6	11/5/6
	WLS	10/1/6	11/19/6
10	1.2.1.10-DPS-BTU CONF MGMT	10/15/6	2/25/7
	EIU	10/15/6	2/25/7
	MEC	10/15/6	2/25/7
	BTU FORMATTER	11/26/6	2/25/7
11	1.2.1.11-MECH SYS-MECH SYS	12/10/6	2/4/7
12	1.2 PAYLOAD		

WP			WEEK ENDING DATES	
			PDR	CDR
13	1.2.2.1-VEH DYN-	OTEOM	9/17/6	12/17/6
		OREOM	9/17/6	12/17/6
		PEOM	10/22/6	12/17/6
		TREOM	9/17/6	11/5/6
		TVACS	9/17/6	11/5/6
		TTEOM	12/3/6	2/18/6
		MASS PROP	8/20/6	10/15/6
		GEO ENVIR	7/23/6	9/17/6
		OAERO	11/5/6	1/14/7
		TAERO	11/5/6	1/14/7
		OEOMI	11/26/6	2/18/7
		TEOMI	11/26/6	2/18/7
13	1.2.2.1-VEH CYN-BGM SFWR		7/16/6	10/1/6
14	1.2.2.2-MCCI INTEC-SFWR		12/3/6	4/8/7
		HDWR	9/24/6	1/28/7
15	1.2.2.3-IGS (APO)-	SCAN LINE COMPUTER	5/14/6	7/2/6
		VIS EFFECTS GEN	5/14/6	7/2/6
		FRAME CALCULATOR	5/14/6	7/2/6
		SOFTWARE	5/14/6	7/2/6
		COMPILER	5/14/6	7/2/6
		DATA BASE GEN	5/14/6	7/2/6
		COMPUTER INTFC UNIT	5/14/6	10/1/6
16	1.2.2.4-IDS-	STRUCTURE	5/14/6	10/1/6
		ELECTRONICS	5/14/6	10/1/6
17	1.2.2.5-IP&C-VIDEO PROCESSOR & VIS EFFECTS GEN.		5/14/6	10/1/6
		TIMING/SYNC	5/14/6	10/1/6
		VIS PWR SYS	5/14/6	10/1/6
		TEST & MAINT PNLS	5/14/6	10/1/6
18	1.2.3.1-SUPPORT SFWR (BGM)-	IOS OFF-LINE	5/28/6	8/27/6
		IOS ON-LINE	5/28/6	8/27/6
18	1.2.3.1-SUPPORT SFWR-	MASTER CONTROL	9/17/6	11/12/6
		REAL TIME I/O	9/17/6	11/12/6
		MASTER TIMING	9/17/6	11/12/6
		DATA RETRIEVAL	9/17/6	11/12/6
		DATA LOGGING	9/17/6	11/12/6
		MONITOR	9/17/6	11/12/6
		SYSTEM STRUCT	9/17/6	11/12/6
		RECORD/PLAYBACK	1/7/7	3/4/7
		OBC SUPPORT SFWR	4/15/7	7/8/7
19	1.2.3.2-UTILITY SFWR-	SDPSM	9/17/6	11/26/6
		ADD UP	8/27/6	10/8/6
		INITIAL COND MGMT	12/17/6	2/4/7
		CS/READY	2/18/7	4/22/7
		AN/READY	3/4/7	4/29/7
		INTERF DIAG	3/4/7	5/6/7

WP		WEEK ENDING DATES	
		PDR	CDR
20	1.2.4.1-CREW STATION-COCKPIT SUPPORT STRUCT	4/16/6	7/2/6
	FWD SHELL & FLOOR FRAME	4/16/6	7/2/6
	AFT SHELL & FLOOR FRAME	4/16/6	7/2/6
	FWD O/H STRUCT	4/16/6	7/2/6
	FWD CONTROL INSTL	4/16/6	7/2/6
	AFT MSS & OOS STRUCT	4/16/6	7/2/6
	FWD CTR CONSOLE PNLS	4/16/6	7/2/6
	FWD CONSOLE PANELS	4/16/6	7/2/6
	FWD L/H & R/H CONSOLE PNLS	4/16/6	7/2/6
	FWD O/H CONSOLE PANELS	4/16/6	7/2/6
	AFT MSS & OOS PANELS	4/16/6	7/2/6
21	1.2 MOTION		
22	1.2.4.2-IOS-CONSOLES	4/9/6	7/30/6
	PANELS	4/9/6	7/30/6
	CRT INSTL	4/9/6	7/30/6
23	1.2.4.3-DIGITAL COMPUTER COMPLEX	6/18/6	10/1/6
24	1.2.4.4-SCE & ANCIL EQUIP-SCE & WTFC CABINETS	4/30/6	10/1/6
	POWER CABINET	4/16/6	8/27/6
	PERIPHERAL CABINETS:		
	CTE	7/2/6	8/27/6
	VOICE COMM	5/14/6	7/30/6
	AURAL CUE	7/2/6	8/27/6