

301

June 2, 1997

TO: 442/Project Manager, HST Flight Servicing and Systems

FROM: 301/Chief, Systems Review Office

SUBJECT: Appointment of the Review Team Members for the HST SM-3 Solar Array Preliminary Design Review (PDR)

The following personnel are appointed to serve as HST SM-3 Solar Array PDR review team members:

Mr. Josef Wonsever, Chairman	Flight Assurance
Mr. Jerome Kosko	Flight Assurance
Mr. Michael Weiss	Projects
Mr. Stephen Brodeur	Engineering
Mr. John Decker	Engineering
Dr. Edward Gaddy	Engineering
Mr. Randy Hedgeland	Engineering
Mr. Dennis Hewitt	Engineering
Mr. John Wolfgang	Engineering

The review will be held on June 5-6, 1997 at 7474 Greenway Drive, Room 257, (which is the Lockheed/Martin conference room in the Maryland National Bank building behind Greenway Plaza) commencing at 8:30 a.m. The review should conclude before noon on June 6. Time permitting, the review team caucus will follow immediately. A preliminary agenda is enclosed.

Review team members should charge their time to XXX-458-10-10-25. If there are any questions, please contact Linda Millsap at 6-5649.

Gustave J. Comeyne, Jr.

Enclosure

Review Team Members:

301/Mr. J. Wonsever

302/Mr. J. Kosko

442/Mr. M. Weiss

704/Mr. J. Decker

704/Mr. J. Wolfgang

724/Mr. D. Hewitt

724/Mr. R. Hedgeland

734/Mr. S. Brodeur

734/Dr. E. Gaddy

cc:

300/Mr. C. Vanek

300/Mr. W. Denoon

300/Ms. C. Windsor

301/Ms. L. Millsap

303/Mr. R. Sticka

400/Mr. J. Moore

440/Dr. J. Campbell

442/Mr. T. Griffen

442/Ms. A. Goode

700/Mr. O. Figueroa

HST SM-3 Solar Array PDR Draft Agenda

DAY 1:

<u>Introduction</u>	8:30 - 9:15 am
Agenda	
SA3 Overview	
SA3	
SADM	
Panels	
EVA & SSE Interfaces	
Organization	
Schedule	
<u>SA3 Key Requirements</u>	9:15 - 9:45 am
HST Compatability	
Electrical Performance	
Structural	
Thermal	
Break	9:45 - 10:00 am
<u>Mechanical Design</u>	10:00 - 12:00 pm
Lunch	12:00 - 1:00 pm
<u>Electrical Power System Design</u>	1:00 - 2:00 pm
Requirements	
Performance	
Iridium® Panel	
Harness	
SADM	
D-Box	
SADE & DCE Interfaces	
PCU Interface	
<u>Systems Analyses</u>	2:00 - 2:15 pm
Overview	
Verification	
Thermal	2:15 - 3:00 pm
Requirements	
Thermal Control Design	
Jitter Analyses	
EPS Analyses	
Electrical Power Systems	3:15 - 4:00 pm
Environment Requirements	
BOL & EOL Summary	

Structures	4:00 - 4:30 pm
Mass Properties	
Load Environment Requirements	
Lift-Off, Landing	
On-Orbit	
Ground Handling	
Models	
Itemized Stress Margins	
Jitter	
Fracture Control Plan	
Pointing Control System Interactions	4:30 - 5:00 pm
HST Compatability	
SADE Comptability	

DAY 2:

<u>Systems Analyses , continued</u>	8:30 - 9:00 am
Extra Vehicular Activity (EVA)	
Interfaces	
Installation Procedure	
Verification Program	
Neutral Buoyancy Activities	
Crew Familiarizations	
Contamination	9:00 - 9:05 am
Requirements	
Bakeout & Contamination Control Plans	
Safety	9:05 - 9:20 am
MUA	
Hazard Reports	
Product Assurance	9:20 - 9:50 am
FMEA / Reliability	
Parts Selection and Qualification	
Quality Control	
Materials and Processes	
<u>Assembly & Test Program</u>	9:50 - 10:50 am
Verification Matrix	
Assembly and Test Flow	
Schedule	
Test Summary	
Development Testing	
Acceptance and Qualification Testing	
Break	9:50 - 11:00 am
<u>Mechanical Ground Support Equipment (GSE)</u>	10:50 - 11:00 am
Summary	
Multi-Use Fixture	
System Test Fixture	
Component Test Fixtures	
Lift Slings	
<u>Discussion and Summary</u>	11:00 - 11:15 am

RFAs
Program Milestones