Solar-B EIS

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EUV IMAGING SPECTROMETER

Opto-mechanical engineering meeting

at NRL 18-19 May 1999

AGENDA

EIS-meet-cons-9905agen

16-May

Matthew Whyndham

Day 1 Optical Design & Performance

Implementation

Day 2 Design Session

EIS interfaces

Spacecraft Interfaces Future Business Tour of NRL Facilities

Topics Speaker

(begin at 9 am)

Optical D	esign & Performance The EIS optical design Design/optimisation criteria Optimisation ray trace code Properties of the 7T design exploring EIS parameter space: various cases Scientific performance Modelling EIS spectral resolution: various cases	GAD (chair) CK RT CK CK	20m 20m 20m 30m
	Technical feasibility NASA/GSFC experience in grating fabrications Discussion	JD & RT All	10m 45m
(Lunch)			
Implemen	List of subsystems (based on EIS-sys-des-hiearc) Technology review (for each subsystem) Manufacturing process Suppliers or in-house experience Sources of technical risk Information needed to complete design Need for prototypes	5m	MWT
	Structure Concepts / designs Composite material thermal tests Interfaces to optical subassemblies Envelope Accomodation of mechanisms Launch lock Mounting points (s/c legs) Purge ports, outgassing paths	SM (JS)	
	Mechanisms / electronics Location	CK	

Disturbance torques Power requirements Harness routing

make a list

Unresolved Items

Tour of facilities

Notes

1 Objectives for dicsussion on optical design

Validity of design principles

Assess scientific value of design

Preferred nomencalture for wavelength ranges (mwt suggests Baseline=>LW NRL1=>SW)

Agree essential points of design

Items for further study

2 The subsystems are :

STR	Structure	SM
DOR	Door	SM
FIL	Entrance Filter & Clamshell	CK
MIR	Primary Mirror Assembly	CK
SLT	Slit Assembly	CK
SHT	Shutter	MWT
GRA	Grating	CK
FPA	Focal Plane Assembly	MWT
QCM	Contamination Monitor	JL?

3 The interface list is

(to follow)

4 The s/s interface subsystems are

(to follow) MWT

MWT