

510-TP-002-001

# Release A (TRMM) SDPS/CSMS CDR Review Guide for the ECS Project

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formal review or government approval.

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## RESPONSIBLE ENGINEER

<u>Paul W. Fingerman /s/</u>	8/3/95
Paul W. Fingerman, Systems Engineer EOSDIS Core System Project	Date

## SUBMITTED BY

<u>Edward M. Lerner /s/</u>	8/3/95
Edward M. Lerner, Science and Communications Development Office (SCDO) Manager EOSDIS Core System Project	Date

Hughes Information Technology Corporation  
Landover, Maryland

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# Abstract

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This Review Guide for the Release-A (TRMM) SDPS/CSMS Critical Design Review is provided to assist in reviewing the CDR documentation set and to prepare for participation in the upcoming Critical Design Review. The guide presents a list of the documents prepared as part of the CDR, a list of other supporting documents, and a roadmap through the documentation set for different groups of readers. Some methodological notes are included, as well as an update on the organization of ECS development activity. It also includes the objectives of the CDR at a high level, the scope of Release A, and a draft agenda for the briefings to be presented August 14–18, 1995.

**Keywords:** CSMS, SDPS, SCDO, CDR, ECS, Release-A, TRMM

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## Abstract

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# 1. Introduction

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## 1.1 Purpose

This technical paper is provided to assist in reviewing Release A (TRMM) SDPS/CSMS Critical Design Review (CDR) documentation set and to prepare for participation in the upcoming Release A CDR session. Participation in this review is important and appreciated.

This document is not a deliverable item under the EOSDIS Core System (ECS) contract, and is provided solely as a convenience for the reviewers. Accordingly, this technical paper itself is not subject to comment.

This guide contains material addressing the following topics:

- ECS development organizations and the Release A CDR
- CDR Objectives
- Scope of Release A and a methodological note
- Summary of organizations participating
- CDR deliverable documents
- Other relevant documents
- Documentation roadmap
- Draft agenda for the CDR briefings August 14 - 18, 1995

## 1.2 ECS Development Organizations

In an effort to maximize the communication and coordination between the Communications and Systems Management Segment (CSMS) and the Science and Data Processing Segment (SDPS), ECS reorganized those development organizations after their respective Preliminary Design Reviews into a single organization, the Science and Communications Development Office (SCDO). This organization is organized by system release, Intermediate Release 1 (TRMM Infrastructure Release) and Release A at present, with Release B (EOS-AM1/Landsat-7 Release) moving into SCDO from the ECS System Management Office shortly. Accordingly, the upcoming August Release A CDR covers both segments. Design and development for the Flight Operations Segment (FOS) remains as a distinct organization, while still exploiting the infrastructure services provided by the CSMS components. FOS will hold a combined Release A/B CDR in October, 1995. FOS-unique CSMS activity (e.g., the EOC Lan design) will be documented and presented as part of the FOS CDR.

## 1.3 CDR Objectives

The key purpose of the release Critical Design Review is to determine that a design is ready for coding and implementation. This is verified by the following checks:

- Demonstrate that the detailed design under review satisfies the performance and functional requirements of the development specification
- Establish the detailed design compatibility among the release components and other ECS components, facilities, software, and personnel
- Assess release risk areas, including technical, cost, and schedule risks
- Review the preliminary hardware product specifications
- Determine the acceptability of the detailed design, performance, and test characteristics of the software design solution
- Determine the adequacy of the operation and support documents

ECS subsystems are developed on one of two development tracks (see section 1.4.1). The CDR presents the detailed design of the subsystems that are being developed on the formal track, listed below:

- Ingest
- Planning
- Data Processing
- Data Server
- Management Services
- Internetworking Services

CDR also presents the remaining subsystems (Communications Services and Client/Interoperability/Data Management) as an incremental development status briefing, including a demonstration of current incrementally developed components and prototypes. An architectural overview of both formal track and incremental track subsystems, across both segments, is provided in the design specification documentation, and will be briefed at the CDR presentation.

SCDO CDR has a Release A focus, with selective a lookahead to Release B. Lookahead occurs when necessary to avoid precluding Release B features.

## 1.4 Scope of Release A

Release A, or the TRMM Release, is the first operational release of the ECS. It has the following primary objectives:

- TRMM operational data processing support, including full ground systems capability for the ingest and archive of TRMM data received from TSDIS. It supports Level 1 through Level 4 product generation for the CERES and LIS instruments, and receipt, archive, and distribution of TRMM data products. The TRMM Release provides access to metadata

generated during L1 through L4 product generation at the DAACs. CERES product generation capabilities are provided at LaRC, while LIS capabilities are provided at MSFC. Additionally, both MSFC and GSFC provide archive capabilities for ancillary data and L1 through L4 data. The System Monitoring and Coordination Center (SMC), located at the GSFC, monitors and coordinates the operational sites.

- TRMM Release is also deployed at EDC for continued Algorithm Integration and Test (AI&T) and interface testing

Secondary objectives for Release A include:

- Early Landsat-7 Interface Testing, including functional testing of Landsat-7 ground system interfaces among several facilities including the Landsat Processing System, NOAA/NESDIS, the Data Assimilation Office (DAO), and three DAACs, LaRC, GSFC, and EDC.
- Early EOS AM-1 Interface Testing, including functional testing of EOS AM-1 ground system interfaces among several facilities including the Flight Dynamics Facility, the Aster Ground Data System, NOAA/NESDIS, the DAO, the ECS Data Operation System (EDOS), and three DAACs, LaRC, GSFC, and EDC. EOC to EDOS interfaces are also exercised.
- Tightly intertwined with Release A is the V0 data migration effort. Release A will use migrated V0 data for testing of some components and validation of the migration process. As Release A is ready to go into production, an initial set of V0 data will be migrated in to the Release A data servers. V0 data will continue to be migrated during the Release A operational phase.

#### **1.4.1 Formal vs. Incremental Development Tracks**

Two development approaches are being used on the ECS project: formal development and incremental development.

Incremental development is characterized by a sequence of short development cycles (6-9 months each) with each increment building upon the previous one. It is used for (1) areas of the system where it is desired to obtain early user feedback and to minimize the turnaround time required to incorporate this feedback into the system, and (2) COTS-intensive portions of the system. A significant portion of each increment is devoted to modifying existing software to incorporate user feedback. In order to achieve the short development cycle, this methodology employs a streamlined review, documentation, and test process. In particular, the streamlined review process substitutes smaller, more frequent reviews by ECS Tirekickers for formal reviews like PDR and CDR. Thus, the detailed design for incrementally developed components will not be presented at CDR. The Client/Interoperability/Data Management and Communications Services subsystems of SDPS and CSMS are currently on the incremental track. Their public interfaces are formally documented, but detailed design of the entire subsystem will be ultimately documented only in a final, as-built design specification.

Formal development is characterized by longer development cycles (18-24 months) with formal reviews, documentation, and testing. This development approach is typically used for mission

critical areas of the system. Ingest, Data Server, Data Processing, Planning, Internetworking, and Management Services subsystems are currently on the formal track.

More detailed information on the ECS development approach can be found in the white paper "Multi-Track Development for the ECS Project" (FB9404V2), March 1994.

## 1.5 Participating Organizations

ECS has a large number of stakeholders who will be represented at the Release A CDR, including:

- EOS Advisory Panel
- DAAC managers, scientists, engineers, user working groups
- ECS tirekickers
- Instrument Teams
- SDPS Design Working Group, Data Model Working Group, Ad Hoc Working Group on Production and Consumers
- ESDIS (SDPS, CSMS, FOS, Systems Engineering, the Project Office)
- NASA headquarters
- TRMM, AM-1, Landsat 7
- EDOS, EBnet
- NOAA
- International Partners
- other ECS organizations (M&O, FOS, Quality Office, Systems Management Office, IATO)
- IV&V contractor

## 1.6 Additional Information

All documents identified in this write-up are available in softcopy via the ECS Data Handling System (URL = <http://edhs1.gsfc.nasa.gov>). The EDHS also provides softcopy of such useful background material as the ECS Functional and Performance Requirements Specification ("Level 3s"), the ECS IRDs, and the overall ECS System Design Specification (as issued for the 6/94 System Design Review). If you have problems accessing these documents please contact the EDHS Administrator ([edhsadmin@eos.hitc.com](mailto:edhsadmin@eos.hitc.com)).

Questions concerning distribution or control of this document should be addressed to:

Data Management Office  
The ECS Project Office  
Hughes Information Technology Corporation  
1616 McCormick Drive  
Landover, MD 20785

## 2. CDR Documentation

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### 2.1 Introduction

A large array of technical documentation is being provided to EOSDIS and its partners to allow a careful review of the ECS Release A SDPS/CSMS design. To maximize the effectiveness of the Critical Design Review, reviewers are encouraged to examine the materials pertinent to their efforts and disciplines, and be prepared to ask questions either as an active participant at the CDR, or through the Review Item Discrepancy process.

### 2.2 Review Documentation

ECS personnel have provided six major categories of technical information for review which thoroughly describe the detailed design the SDPS/CSMS Release A. These categories include:

#### 2.2.1 Software and Hardware Design Documents

The primary design document, DID 305, has been broken into sixteen documents, falling into four categories: overview, subsystem design, facility-unique hardware designs, and (object) data dictionary. Also included in this group of documents is DID 313, which collects all of the public internal interfaces in the SDPS/CSMS Release A system; these include inter-segment interfaces, inter-subsystem interfaces, and inter-configuration item interfaces. In addition, this document contains a mapping of all external interfaces (see next subsection) to the corresponding public internal interface object.

305-CD-004-001	Overview of Release A SDPS and CSMS System Design Specifications for the ECS Project
305-CD-005-001	Release A SDPS Client Subsystem Design Specification for the ECS Project
305-CD-006-001	Release A SDPS Interoperability Subsystem Design Specification for the ECS Project
305-CD-007-001	Release A SDPS Data Management Subsystem Design Specification for the ECS Project
305-CD-008-001	Release A SDPS Data Server Subsystem Design Specification for the ECS Project
305-CD-009-001	Release A SDPS Ingest Subsystem Design Specification for the ECS Project
305-CD-010-001	Release A SDPS Planning Subsystem Design Specification for the ECS Project
305-CD-011-001	Release A SDPS Data Processing Subsystem Design Specification for the ECS Project
305-CD-012-001	Release A CSMS Communications Subsystem Design Specification for the ECS Project
305-CD-013-001	Release A CSMS Systems Management Subsystem Design Specification for the ECS Project
305-CD-014-001	Release A GSFC DAAC Design Specification for the ECS Project

305-CD-015-001	Release A LaRC DAAC Design Specification for the ECS Project
305-CD-016-001	Release A MSFC DAAC Design Specification for the ECS Project
305-CD-017-001	Release A EDC DAAC Design Specification for the ECS Project
305-CD-018-001	Release A SDPS/CSMS Data Dictionary for Subsystem Design Specifications for the ECS Project
305-CD-019-001	Release A System Monitoring and Coordination (SMC) Center Design Specification for the ECS Project
313-CD-004-001	Release A SDPS/CSMS Internal Interface Control Document for the ECS Project

Note: 305-CD-xxx, xxx = 001 - 003, were preliminary design documents issued in early 1995. They are of historical interest only at this time.

### 2.2.2 Database Design

311-CD-002-003	SDPS Database Design and Database Schema Specifications for the ECS Project
311-CD-003-003	CSMS Database Design and Database Schema Specifications for the ECS Project

Note: These documents are revised from PDR and are resubmitted coincident with CDR.

### 2.2.3 External Interfaces

209-CD-005-002	Interface Control Document Between EOSDIS Core System (ECS) and Science Computing Facilities (SCF)
209-CD-006-002	Interface Control Document Between EOSDIS Core System (ECS) and Affiliated Data Center (ADC)
209-CD-007-002	Interface Control Document Between EOSDIS Core System (ECS) and TRMM Science Data and Information System (TSDIS)
209-CD-008-002	Interface Control Document Between EOSDIS Core System (ECS) and Goddard Space Flight Center (GSFC) Distributed Active Archive Center (DAAC) for the ECS Project
209-CD-009-002	Interface Control Document Between EOSDIS Core System (ECS) and Marshall Space Flight Center (MSFC) Distributed Active Archive Center (DAAC) for the ECS Project
209-CD-010-002	Interface Control Document Between EOSDIS Core System (ECS) and Langley Research Center (LaRC) Distributed Active Archive Center (DAAC) for the ECS Project
209-CD-011-002	Interface Control Document Between the EOSDIS Core System (ECS) and the Version 0 System for the ECS Project
209-CD-013-001	Interface Control Document Between EOSDIS Core System (ECS) and Landsat-7 for the ECS Project

The ongoing activity relating to EBnet and the consolidation/reorganization of networks may render incomplete or obsolete some of the information in the Interface Control Documents regarding network connections.

### 2.2.4 User's Guides

205-CD-001-002	Science Users Guide and Operations Procedure Handbook, Parts 1-3 (Preliminary–Annotated Outline)
205-CD-002-002	Science Users Guide and Operations Procedure Handbook, Part 4

### 2.2.5 Operations and Operations Concepts Documents

604-CD-003-001	ECS Operations Concept Document, Volume 2: Release A
605-CD-001-001	Release A Operations Scenarios for the ECS Project (Preliminary–Annotated Outline)
614-CD-001-002	Release A Developed Software Maintenance Plan for the ECS Project
616-CD-002-001	Integrated Logistics Support Plan for the ECS Project

### 2.2.6 Other

404-CD-001-001	Procedure For Control of Unscheduled Activities During Verification
514-CD-001-003	Security Sensitive Items List for the ECS Project
515-CD-001-003	Release A Availability Models/Predictions for the ECS Project
516-CD-001-003	Release A Reliability Predictions for the ECS Project
518-CD-001-003	Release A Maintainability Predictions for the ECS Project

## 2.3 Other Documentation

410-TD-001-002	ECS User Interface Style Guide, Version 5
210-TP-001-003	Technical Baseline
410-TP-001-001	ECS Object Modeling Technique Tutorial
510-TP-002-001	Release A SDPS/CSMS CDR Review Guide for the ECS Project
440-TP-006-001	Production Topologies: A Tradeoff Studies Analysis
445-TP-002-002	Theoretical Basis of the SDP Geolocation Package for the ECS Project
152-TP-001-002	Acronyms for the ECS Project
222-TP-003-006	Release Plan Content Description for the ECS Project
445-TP-002-002	Theoretical Basis of the SDP Geolocation Package for the ECS Project
221-WP-001-001	EOSDIS Core System (ECS) Design and Evolution
175-WP-001-001	HDF-EOS Primer for Version 1 EOSDIS
420-TP-005-001	Preliminary User View - ECS Metadata
814-RD-003-001	Version Description Document for SDP Toolkit 5
222-TP-004-001	EP4 Evaluation Report

## 2.4 Documentation Roadmap

As is clear from the preceding sections, ECS has prepared a large amount of documentation for the SDPS/CSMS Release A CDR. One document is singled out as a design overview document, DID 305-CD-004-001, *Release A Overview of the SDPS and CSMS Design Specifications for the ECS Project*. This document provides an architectural view of the system at the subsystem and configuration item level, a reference (non-DAAC specific) hardware description, and a chapter on

design topics which span all or many subsystems (e.g., distributed communications architecture, security architecture, external interface architecture, systems management architecture, and user interface architecture. It is recommended reading for all audiences.

The following table indicates the likely level of review interest associated with the SDPS/CSMS CDR document deliveries against the following readership groups:

**OPERations**—DAAC Managers, M&O, TRMM ground system, EDOS, flight team

**USER**—EOSDIS science users

**NET-HW**—EOSDIS networks (“NT,” EBnet, NSI, PSCN, V0, etc.) and hardware

**DEVelopers**—SDPS, FOS, CSMS

**SE**—system engineering interests (SI&P, SI&T, IATO, IV&V, ...)

**MGR**—various management interests in ESDIS and ECS

**Table 2-1. CDR Documentation Roadmap (1 of 3)**

<b>DID Number</b>	<b>Short Title</b>	<b>OPER</b>	<b>USER</b>	<b>NET-HW</b>	<b>DEV</b>	<b>SE</b>	<b>MGR</b>
305-CD-004-001	Overview of SDPS and CSMS Subsystem Design Specification	X	X	X	X	X	X
305-CD-005-001	Client Subsystem Design		X		X	X	
305-CD-006-001	Interoperability Subsystem Design		X		X	X	
305-CD-007-001	Data Management Subsystem Design		X		X	X	
305-CD-008-001	Data Server Subsystem Design		X		X	X	
305-CD-009-001	Ingest Subsystem Design	X			X	X	
305-CD-010-001	Planning Subsystem Design	X			X	X	
305-CD-011-001	Data Processing Subsystem Design	X			X	X	
305-CD-012-001	Communications Subsystem Design	X	X	X	X	X	
305-CD-013-001	Systems Management Subsystem Design	X			X	X	
305-CD-014-001	GSFC DAAC Design Specification	X		X		X	
305-CD-015-001	LaRC DAAC Design Specification	X		X		X	
305-CD-016-001	MSFC DAAC Design Specification	X		X		X	

**Table 2-1. CDR Documentation Roadmap (2 of 3)**

<b>DID Number</b>	<b>Short Title</b>	<b>OPER</b>	<b>USER</b>	<b>NET</b>	<b>DEV</b>	<b>SE</b>	<b>MGR</b>
305-CD-017-001	EDC DAAC Design Specification	X		X		X	
305-CD-018-001	(Object) Data Dictionary Subsystem Design Specifications				X	X	
305-CD-019-001	System Monitoring & Coordination (SMC) Center Design Specification	X		X		X	
313-CD-004-001	Internal Interface Control Document				X	X	
311-CD-002-003	SDPS Database Design and Database Schema				X		
311-CD-003-003	CSMS Database Design and Database Schema				X		
209-CD-005-002	Interface Control Document Between ECS and SCF	X		X	X	X	
209-CD-006-002	Interface Control Document Between ECS and ADC	X		X	X	X	
209-CD-007-002	Interface Control Document Between ECS and TSDIS	X		X	X	X	
209-CD-008-002	Interface Control Document Between ECS and GSFC DAAC	X		X	X	X	
209-CD-009-002	Interface Control Document Between ECS and MSFC DAAC	X		X	X	X	
209-CD-010-002	Interface Control Document Between ECS and LaRC DAAC	X		X	X	X	
209-CD-011-002	Interface Control Document Between ECS and the Version 0 System	X		X	X	X	
209-CD-013-002	Interface Control Document Between ECS and Landsat-7	X		X	X	X	

**Table 2-1. CDR Documentation Roadmap (3 of 3)**

<b>DID Number</b>	<b>Short Title</b>	<b>OPER</b>	<b>USER</b>	<b>NET</b>	<b>DEV</b>	<b>SE</b>	<b>MGR</b>
2-CD-001-002	Science Users Guide and Operations Procedure Handbook, Parts 1-3 (Preliminary -- Annotated Outline)		X				X
205-CD-002-002	Science Users Guide and Operations Procedure Handbook, Part 4		X				X
604-CD-003-001	Operations Concept Document, Volume 2	X			X	X	X
605-CD-001-001	Operations Scenarios (Preliminary -- Annotated Outline)	X			X	X	
614-CD-001-002	Developed Software Maintenance Plan	X					X
616-CD-002-001	Integrated Logistics Support Plan	X					X
404-CD-001-001	Procedure For Control of Unscheduled Activities During Verification	X				X	
514-CD-001-003	Security Sensitive Items List	X		X		X	X
515-CD-001-003	Availability Models/ Predictions	X				X	X
516-CD-001-003	Reliability Predictions	X				X	X
518-CD-001-003	Maintainability Predictions	X				X	X

## 3. Critical Design Review

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### 3.1 Introduction

The Critical Design Review is a series of planned events designed to familiarize the participants with the design and progress of the ECS development and evolution. The ECS team will host meetings, presentations, demonstrations, and exhibits designed to encourage discussion and information interchange.

### 3.2 Draft Agenda

The draft agenda for the CDR presentation week is presented below. A summary in “week-at-a-glance” format is included as Appendix A. Be aware that we expect to begin the briefings promptly at 8:00 AM each day. Also note that the "Breaks" in the agenda are tentative, depending on our progress through the day's material.

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<b>Monday</b>	<b>August 14, 1995</b>
7:30 - 8:00 AM	Continental Breakfast
8:00 - 8:20 AM	ESDIS Welcome
8:20 - 8:30 AM	ECS Welcome
8:30 - 9:15 AM	World of EOSDIS
9:15 - 9:30 AM	EOSDIS Networks Update
9:30 - 10:15 AM	ECS Project Status
10:15 - 10:30 AM	<i>Break</i>
10:30 - 11:15 AM	Road from PDR
11:15 AM - 12:15 PM	ECS Design Approach
12:15 PM - 1:15 PM	<i>Lunch</i>
1:15 - 2:45 PM	ECS System Architecture
2:45 - 3:00 PM	<i>Break</i>
3:00 - 4:00 PM	Data Engineering
4:00 - 4:45 PM	V0 Data Migration
4:45 - 5:45 PM	Internal Interface Models
5:45 PM	<i>Adjourn</i>
	Review Panel Meetings

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<b>Tuesday</b>		<b>August 15, 1995</b>	
7:30 - 8:00 AM		Continental Breakfast	
8:00 - 9:30 AM		Distributed Object Services	
9:30 - 10:00 AM		Communication Services Subsystem - Common Facilities	
10:00 - 10:15 AM		<i>Break</i>	
10:15 - 10:45 AM		Management Services Subsystem - Fault Management Technology Overview	
10:45 - 11:45 AM		Client Subsystem - Desktop CI and Workbench CI	
11:45 AM - 12:45 PM		<i>Lunch</i>	
12:45 - 1:45 PM		Data Management Subsystem - Gateway CI	
1:45 - 2:30 PM		Interoperability Subsystem - Advertising CI	
2:30 - 2:45 PM		<i>Break</i>	
2:45 - 3:15 PM		Data Processing Subsystem - Science Data Processing Toolkit and Algorithm and Integration Test Tools	
3:15 - 4:30 PM		Ingest Subsystem - Ingest CI and External Interfaces	
4:30 PM		<i>Adjourn</i>	
		Review Panel Meetings	

<b>Wednesday</b>	<b>August 16, 1995</b>
7:30 - 8:00 AM	Continental Breakfast
8:00 - 9:30 AM	Planning Subsystem - Planning CI
9:30 - 9:45 AM	<i>Break</i>
9:45 - 11:15 AM	Data Processing Subsystem - Processing CI
11:15 - 12:00 PM	Data Server Subsystem - Overview
12:00 - 1:00 PM	<i>Lunch</i>
1:00 - 1:30 PM	Data Server Subsystem - Hardware
1:30 - 2:30 PM	Data Server Subsystem - Science Data Server CI
2:30 - 3:00 PM	Data Server Subsystem - Document Data Server
3:00 - 3:15 PM	<i>Break</i>
3:15 - 4:00 PM	Data Server Subsystem - Storage Management CI
4:00 - 4:45 PM	Data Server Subsystem - Data Distribution Server CI
4:45 - 5:45 PM	Human-Machine Interface Methodology, GUI Development, & Assessment
5:45 PM	<i>Adjourn</i> Review Panel Meeting

<b>Thursday</b>	<b>August 17, 1995</b>
7:30 - 8:00 AM	Continental Breakfast
8:00 - 9:00 AM	Management Services Subsystem
9:00 - 9:30 AM	Management Services Subsystem: Accountability
9:30 - 10:00 AM	Management Services Subsystem: Configuration Management
10:00 - 10:15 AM	<i>Break</i>
10:15 - 11:30 AM	Facility-Unique Designs: GSFC, MSFC, LaRC, EDC, & SMC
11:30 AM - 12:15 PM	Risk Management
10:15 AM - 3:15 PM	Demos, Exhibits, Poster Sessions -- continuously running
12:15 - 1:15 PM	<i>Lunch</i>
1:15 - 2:00 PM	Security
2:00 - 2:30 PM	RMA Modeling
2:30 - 3:15 PM	Integration and Test Planning
3:15 - 3:30 PM	<i>Break</i>
3:30 - 5:30 PM	Road to TRMM (and Beyond)
5:30 PM	<i>Adjourn</i>
	Review Panel Meeting

<b>Friday</b>	<b>August 18, 1995</b>
7:30 - 8:00 AM	Continental Breakfast
8:00 AM - Noon	Review Panel Meeting
Noon - 1:00 PM	<i>Lunch</i>
1:00 - 2:00 PM	Review Panel Meeting
2:00 - 3:00 PM	Review Panel Wrap-Up Briefing

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# Abbreviations and Acronyms

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ADSRV	Advertising Service CSCI
AITTL	Algorithm Integration
CI-CI	Configuration Item to Configuration Item (e.g., software module to software module)
CLS	Client Subsystem
CM	Configuration Management
CSS	Communications Subsystem
DDICT	Data Dictionary Services CSCI
DDIST	Data Distribution CSCI
DDSRV	Document Data Server CSCI
DESKT	Desktop CSCI
DMS	Data Management Subsystem
DPREP	Science Data Pre-processing CSCI
DPS	Data Processing Subsystem
DSS	Data Server Subsystem
EBnet	EOSDIS Backbone Network
ECS	EOSDIS Core System
GTWAY	Version 0 Interoperability Gateway CSCI
INS	Ingest Subsystem
IOS	Interoperability Subsystem
MSS	Management Subsystem
PLANG	Production Planning CSCI
PRONG	Processing CSCI
RMA	Reliability Maintainability Availability
SDPTK	SDP Toolkit CSCI
SDSRV	Science Data Server CSCI
STMGT	Storage Management CSCI
WKBCH	Workbench CSCI

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**Appendix A. Draft CDR Agenda  
“Week-at-a-Glance”  
(Version 3.0)**

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MONDAY 8/14		TUESDAY 8/15		WEDNESDAY 8/16		THURSDAY 8/17		FRIDAY 8/18			
7:30	Cont. Breakfast	7:30	Cont. Breakfast	7:30	Cont. Breakfast	7:30	Cont. Breakfast	7:30	Cont. Breakfast		
8:00	ESDIS Welcome	8:00	Distributed Object Services	8:00	PLS Planning CI	8:00	MSS - Fault & Performance Management	8:00	Review Panel		
8:20	Hughes Welcome										
8:30	World of EOSDIS										
9:15	Networks Update										
9:30	ECS Project Status	9:30	CSS Common Facilities	9:30	Break	9:30	MSS - Configuration Management				
		10:00	Break	9:45	DPS Processing CI	10:00	Break	10:00	Break		
10:15	Break	10:15	MSS (Fault Mgmt Tech. Overview)			10:15	Facility Unique Designs	10:15	Demos Exhibits & Poster Sessions		
10:30	Road from PDR	10:45	CLS Desktop CI & Workbench CI			11:30	Risk Mgmt			10:45	Review Panel (Cont.)
11:15	ECS Design Approach	11:45	Lunch	11:15	DSS Data Server Overview	12:15	Lunch			12:00	Lunch
12:15	Lunch	12:45	DMS Gateway CI	12:00	Lunch	1:15	Security			1:00	Review Panel (Cont.)
1:15	ECS System Architecture	1:45	IOS Advertising CI	1:00	DSS Hardware	2:00	RMA Modeling	2:00	Wrap-Up Review Panel		
		2:30	Break	1:30	DSS - Science Data Server CI	2:30	Integration & Test Planning	3:00	Adjourn Review Panel Mtgs		
2:45	Break	2:45	DPS (SDPTK & AITTL)	2:30	DSS - Document Data Server CI						
3:00	Data Engineering	3:15	INS Ingest CI & External Interfaces	3:00	Break	3:15	Break				
4:00	V0 Migration	4:30	Adjourn Review Panel Meetings	3:15	DSS Storage Management CI	3:30	Road to TRMM (and Beyond)				
4:45	Internal Interface Models			4:00	DSS - Data Distribution Server CI						
5:45	Adjourn Review Panel Mtgs			4:45	HMI Methodology GUI Development & Assessment	5:30	Adjourn Review Panel Mtgs and Demos as necessary				
				5:45	Adjourn Review Panel Mtgs						

# Agenda Acronyms

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ADSRV	Advertising Service CSCI
AITTL	Algorithm Integration
CI-CI	Configuration Item to Configuration Item (e.g., software module to software module)
CLS	Client Subsystem
CM	Configuration Management
CSS	Communications Subsystem
DDICT	Data Dictionary Services CSCI
DDIST	Data Distribution CSCI
DDSRV	Document Data Server CSCI
DESKT	Desktop CSCI
DMS	Data Management Subsystem
DPREP	Science Data Pre-processing CSCI
DPS	Data Processing Subsystem
EBnet	EOSDIS Backbone Network
DSS	Data Server Subsystem
GTWAY	Version 0 Interoperability Gateway CSCI
HMI	Human-Machine Interface
INS	Ingest Subsystem
IOS	Interoperability Subsystem
MSS	Management Subsystem
PLANG	Production Planning CSCI
PRONG	Processing CSCI
RMA	Reliability Maintainability Availability
SDPTK	SDP Toolkit CSCI
SDSRV	Science Data Server CSCI
STMGT	Storage Management CSCI
WKBCH	Workbench CSCI