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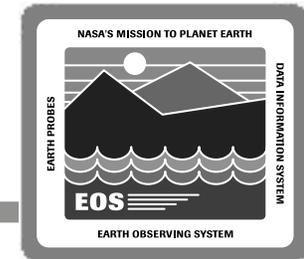
# Test Procedure Status

## Andy Miller

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29 May 1997

# FOS TRR Roadmap



## Overview Material

### FOS Overview

- TRR Objective
- Schedule & Status

### Release B Summary

- Release Capabilities
- Release/Reqmt. Status
- Process Summary

## Test Readiness Status

### Development Status

- Unit Test Results Summary
- SDF Status

### Integration Status

- SWIT Status & Results Summary
- NCR Status

### EOC Installation Status

- Installation/Checkout Status
- Changes Since Release A
- Hardware, COTS, Software
- PCA Preparation

### Test Procedure Status

- Test Procedure Development Process
- Requirements Mapping Status
- Test Data/Test Tools

## EOC Test Processes/Plans

### EOC Testing Plans

- Test Environment Status
- Test Schedule
- Test Activities
- Test Process

## Concurrent Activities

### ECT-2

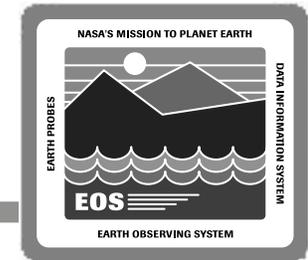
- Preparation Status
- Key Activities

### IST Installation

- Status
- Key Activities
- Release B IST Integration Plan

# TRR Criteria

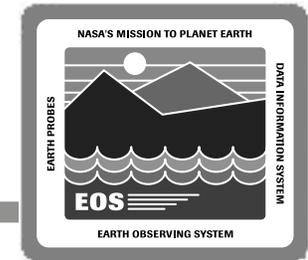
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## TRR Criteria:

- **Test Procedures have been prepared so that the FOS Level 3 and Level 4 requirements can be verified**
- **Test tools, test data, and test drivers have been prepared and are ready to be used during dry-run testing**
- **All procedure walkthroughs have been completed**

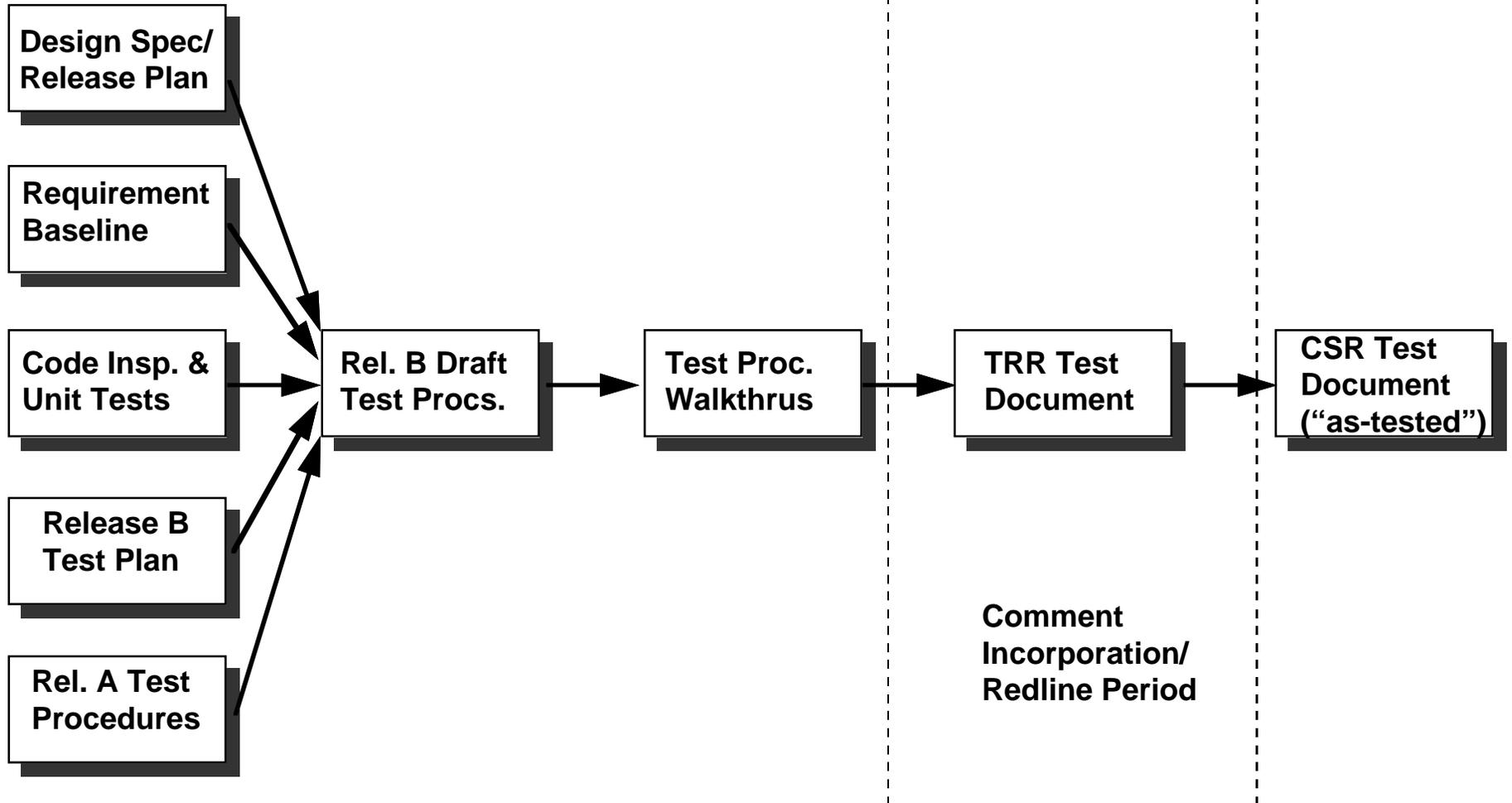
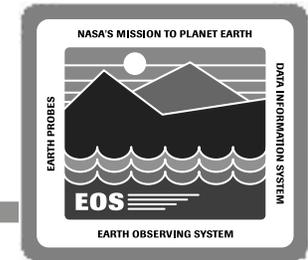
# FOS Test Procedure Development



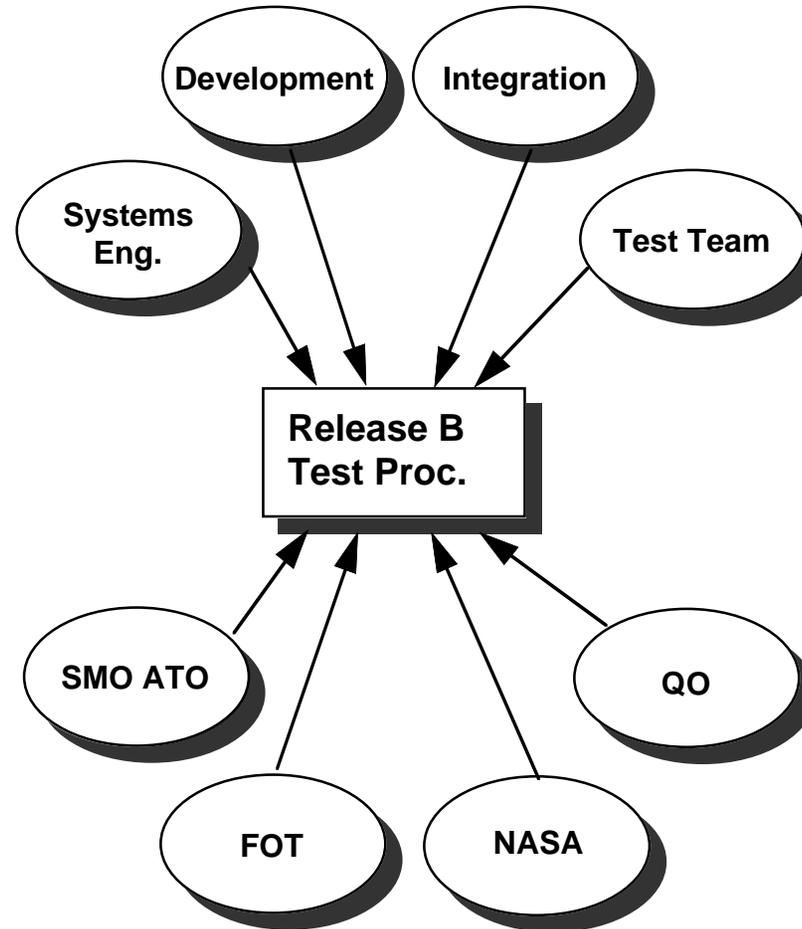
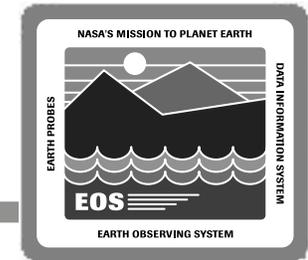
## Logical progression from the FOS I&T Plan

- **Built on Release A test procedures**
- **3 Levels of Test Procedures for Release B**
  - **Level 1: Infrastructure (38)**
  - **Level 2: Subsystem (58)**
  - **Level 3: End-to-End (8)**
- **104 tests identified and detailed in Release B Test Procedure document**
- **A Confidence Test procedure will be executed after each patch delivery**
- **IST testing included in the Release B Test Procedure document**
  - **Regression test**
  - **IST Test Plan**
  - **Specific Test (e.g., IST Pool Management)**

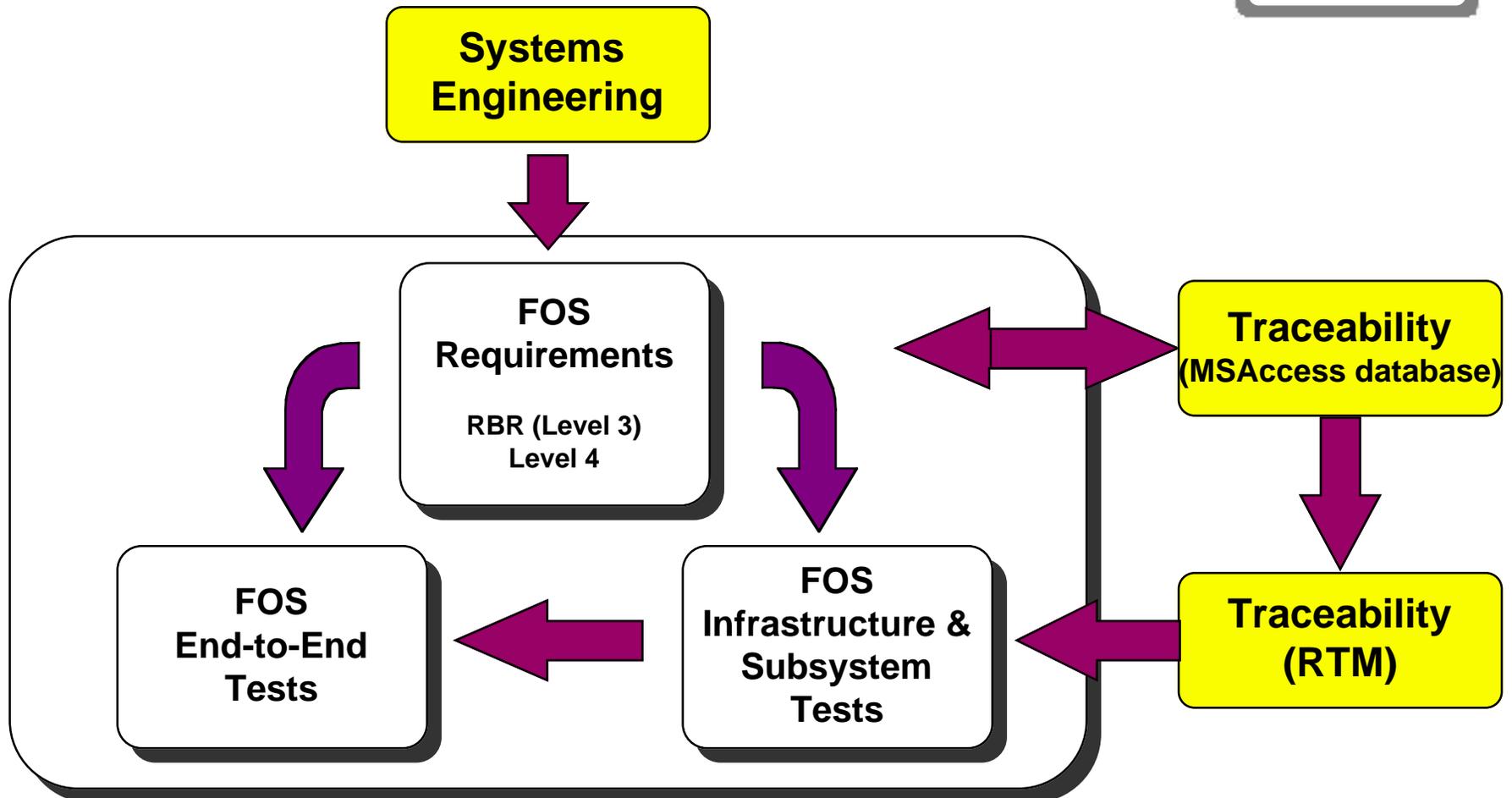
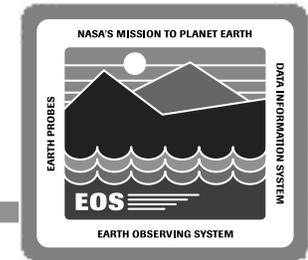
# FOS Test Procedure Development



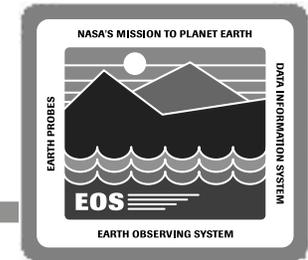
# FOS Test Procedure Development Input



# FOS Requirements Traceability



# FOS Requirements Mapping Status



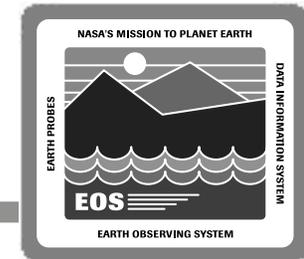
**L4 and RBR mapping provided for all test cases**

- **Level 4 to Test Case mapping**
- **Test Case to Level 4 mapping**
- **RBRs to Test Case mapping**
- **Test Case to RBRs mapping**

**Test case to requirement mapping information was provided for inclusion in the May RTM baseline**

**Further updates to traceability of requirements to test cases will be provided for input to RTM (e.g., CSR Version of Test Procedure document)**

# Requirement Mapping Statistics

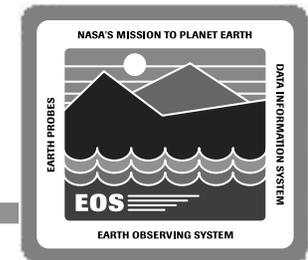


<b>RQMTS:</b>		<b>TEST PROCEDURE COVERAGE</b>
<b>RBRs:</b>	<b>745</b>	<b>670 (89.9%)</b>
<b>L4s:</b>	<b>1364</b>	<b>1361 (99.8%)</b>
<b>Totals:</b>	<b>2109</b>	<b>2031 (96.3%)</b>

## Plan to provide 100% coverage

- Review discrepancies and identify and resolve issues by CSR
- Coordinate disposition of requirements pertaining to FOS contingency implementation including SMC interface with SCDO and ESDIS

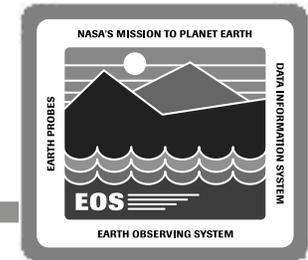
# FOS Test Data/Tools



## Test Data, Test Drivers, and Test Tools

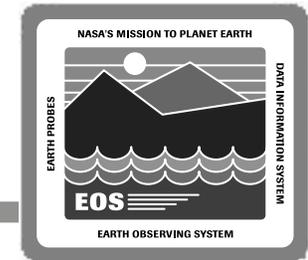
- **CM controlled/all available for test activity**
- **test drivers**
  - **NCC GCMR message generator**
  - **Packet Generator for real-time telemetry streams**
  - **CODA Generator**
  - **CLCW Generator**
  - **SCS Summary Report**
- **Test Tools**
  - **RTM**
  - **DDTS**
  - **tcpdump**
  - **MS Access**

# FOS Test Data/Tools (continued)



- **Performance Test Tools**
  - TOP
  - SADC
  - ACCT
  - VMSTAT
  - IOSTAT
- **Test Data**
  - Procedures
  - Ground Scripts
  - PDB files
  - SQL scripts containing CMD and TLM PDB data
  - Sample data

# Release B Test Procedure Document



- TRR version published May 15 1997
- Under control of FOS CCB
- Procedures will be redlined during procedure checkout; reviewer comments (from walkthroughs) will be incorporated along with checkout redlines
- Procedures will be posted on the FOS Test Procedure home page as they are updated
  - EDHS Home Page url = <http://edhs1.hitc.com/>
  - Select Flight Operations to display FOS home page
- Requirement mappings will be updated as applicable in each RTM baseline through CSR