

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
<u><i>FUI-2025B</i></u>					
	F-FUI-02200	passed	The FOS shall allow the user to send files from a user station or server.		0
	F-FUI-02202	passed	The FOS shall allow users to delete files from their local storage area.		0
	F-FUI-02210	passed	The FOS shall allow the user to select files from available categories.		0
	F-FUI-02215	passed	The FOS shall provide a find capability for selecting files.	The find capability allows the user to type in text, and highlights the closest alphabetic candidate.	0

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	F-FUI-02225	passed	The FOS shall provide a view of selected files to be sent.		0
	F-FUI-02235	passed	The FOS shall allow the user to deselect files that were selected.		0
	F-FUI-02240	passed	The FOS shall provide a notification to the user that: a. a file transfer is in progress b. a file transfer has been completed c. a file transfer error has occurred		0
<u><i>FUI-2030B</i></u>					
	F-FUI-02600	passed	The FOS shall provide the user a palette of available widgets from which the user may dynamically build a		0
			C-252		324-CD-005-001/ 412-CD-002-001

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			real-time display.		
F-FUI-02605		passed	The FOS shall allow the user to drag widgets via the pointing device from the palette and drop them into the display.		0
F-FUI-02610		passed	The FOS shall provide a palette that shall include: a. label b. field c. (deleted) d. (deleted) e. (deleted) f. graph g. table h. deleted) i. (deleted) j. (deleted)	Items n and o are combined on the palette into a single separator object. The format for this object allows the user to select the orientation (vertical/horizontal).	0

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			<ul style="list-style-type: none"> k. data source l. (deleted) m. (deleted) n. horizontal separator o. vertical separator p. schematic graphic items (point, line, icon, circle, rectangle, ellipse, and polygon) 		
	F-FUI-02625	passed	<p>The FOS shall allow the user to associate a telemetry value place holder and a descriptor/mnemonic place holder with a telemetry value.</p>		0
	F-FUI-02630	passed	<p>The FOS shall allow the user to save a real-time display definition as:</p> <ul style="list-style-type: none"> a. a local copy, and/or b. a submission to the FOS CCB as 		0
			C-254		324-CD-005-001/ 412-CD-002-001

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			permanent, global copy.		
F-FUI-02635		passed	The FOS shall allow the user to modify an existing real-time display definition.		0
F-FUI-02640		passed	The FOS shall allow the user to delete a real-time display definition.	Temporary alphanumeric, table, and graph displays can be automatically defined and used immediately through the quick analysis capability. See section 9.1.9.4 for the detailed quick analysis requirements.	0
F-FUI-07100		passed	The FOS shall allow the user to select an update rate from 1 to 60 seconds.		0
F-FUI-07120		failed	The FOS shall allow the user to invoke		08335
			C-255		324-CD-005-001/ 412-CD-002-001

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			quick analysis on the selected telemetry parameters.		
F-FUI-07125		passed	The FOS shall allow the user to pause the display.		0
F-FUI-07130		passed	The FOS shall allow the user to resume the display.		0
F-FUI-07135		passed	The FOS shall label dynamically created displays as temporary.		0
F-FUI-07140		passed	The FOS shall provide the capability to specify the real-time display data source(s).		0

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	F-FUI-07200	partially passed	<p>The FOS shall provide alphanumeric displays that are capable of displaying the following:</p> <ul style="list-style-type: none"> a. the descriptor or mnemonic of a telemetry parameter b. the current state of a discrete telemetry parameter c. the current value of an analog telemetry parameter d. the current state of an analog telemetry parameter based on a range of predefined values e. whether data associated with a telemetry parameter is suspect (bad quality) f. whether data associated with a 		07842,08550,08551

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			telemetry parameter is static		
			g. whether an analog telemetry value has violated a range limit		
			h. whether an analog telemetry value has violated a delta limit		
			i. descriptive labels		
			j. static descriptive text		
			k. horizontal and vertical separator lines		
			l. Universal Time Coordinated (UTC)m. spacecraft time		
			n. current orbit number		
			o. data source (real-time, replay, simulated)		
			p. current major/minor frame counts		
			q. current telemetry format		
			r. current telemetry rate		
			s. spacecraft Id		

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F-FUI-07205		passed	The FOS shall allow alphanumeric displays to display one or more telemetry parameters.		0
F-FUI-07210		passed	The FOS shall load alphanumeric displays dynamically from a predefined format.		0
F-FUI-07215		unverified	The FOS shall allow the user to change a telemetry parameter's label from descriptor to mnemonic.		07842
F-FUI-07220		unverified	The FOS shall allow the user to change a telemetry parameter's label from mnemonic to descriptor.		07842

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F-FUI-07225		failed	<p>The FOS shall be capable of displaying a telemetry value in the following formats:</p> <ul style="list-style-type: none"> a. converted b. decoded c. raw 	<p>The raw format displays the bit string extracted from the telemetry packet.</p> <p>The decoded format displays the integer representation of the raw value. The converted format displays the value of the parameter after its decoded value has been subjected to a parameter-specific conversion function (e.g., apply a calibration curve to the decode value).</p>	04435
F-FUI-07230		failed	<p>The FOS shall be capable of displaying a telemetry value in one of the following representations:</p> <ul style="list-style-type: none"> a. formatted b. octal c. hex d. binary 	<p>A formatted representation will either be a string, decimal integer, or floating-point number based upon the parameter type and the specified format.</p>	07768, 04435

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F-FUI-07235		passed	The FOS shall allow the user to select telemetry parameters by using a pointing device (e.g., mouse, trackball, etc.).		0
F-FUI-07240		passed	The FOS shall allow the user to deselect telemetry parameters by using a pointing device (e.g., mouse, trackball, etc.) .		0
F-FUI-07245		failed	The FOS shall allow the user to change the display of selected telemetry values to any of the following formats: a. converted b. decoded c. raw	The raw format displays the bit string extracted from the telemetry packet. The decoded format displays the integer representation of the raw value. The converted format displays the value of the parameter after its decoded value has been subjected to a parameter-specific conversion function (e.g., apply a calibration curve	04435

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				to the decode value).	
F-FUI-07250		failed	The FOS shall allow the user to change the display representation of selected telemetry values to one of the following: a. formatted b. octal c. hex d. binary	A formatted representation will either be a string, decimal integer, or floating-point number based upon the parameter type and the specified format.	04435, 07768
F-FUI-07255		failed	The FOS shall prevent a change in the displayed telemetry format when a non-supported format for a particular parameter is requested (i.e., when a decoded format is requested for a ground telemetry parameter).		04435, 08662
F-FUI-12610		failed	The FOS shall include a master/major		08485
			C-262		324-CD-005-001/ 412-CD-002-001

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			cycle count in the Display Builder palette.		
<u>FUI-2040B</u>					
	F-FUI-01500	partially passed	The FOS shall perform a syntax check of all directives entered by the user.		08105, 08345
	F-FUI-01505	partially passed	The FOS shall notify the user of directive syntax errors.		08105, 08345
	F-FUI-01580	failed	The FOS shall provide a directive that allows a user to execute a standard UNIX shell command.		08770
	F-FUI-01595	passed	The FOS shall initiate a directive within		0
			C-263		324-CD-005-001/ 412-CD-002-001

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			.5 seconds.		
<u>FUI-2050B</u>					
	F-CMS-01820	failed	The FOS shall validate each field of each real-time command in a procedure.	Each field will be validated in accordance with command PDB definitions.	08655
	F-CMS-01825	failed	The FOS shall provide the capability to check the real-time commands in a procedure against command-level constraints.	Command-level constraints are defined in the PDB.	08655
	F-CMS-01830	failed	The FOS shall provide notification of command-level constraint violations in command procedures.		08655
	F-CMS-01835	unverified	The FOS shall provide the capability to	The PDB will specify "hard"	08655
			C-264		324-CD-005-001/ 412-CD-002-001

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			allow "soft" command-level constraint violations to remain in a command procedure.	constraints, which cannot be violated, and "soft" constraints, which can be allowed to remain in a command procedure.	
F-CMS-01840		failed	The FOS shall provide the capability to prohibit "hard" command-level constraint violations remaining in a command procedure.	The PDB will specify "hard" constraints, which cannot be violated, and "soft" constraints, which can be allowed to remain in a command procedure.	08655
F-FUI-01510		partially passed	The FOS shall allow a user to specify values within a directive in any of the following formats: a. decimal b. hexadecimal c. octal d. binary e. string		07540
			C-265		324-CD-005-001/ 412-CD-002-001

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			f. floating point g. scientific notation h. time i. angles		
F-FUI-01515		passed	The FOS shall allow a user to specify a conditional construct within a procedure.	Conditional constructs include a switch-case structure and an if-then-else structure.	0
F-FUI-01520		passed	The FOS shall allow the nesting of conditional constructs.		0
F-FUI-01525		passed	The FOS shall allow a user to specify iterative loop constructs within a procedure. The loop constructs shall include:		0
			C-266		324-CD-005-001/ 412-CD-002-001

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			<p>a. while loop (test condition prior to entering loop)</p> <p>b. until loop (test condition at the end of the loop)</p> <p>c. for loop (includes an initialization expression, a conditional expression used to terminate the loop, and a loop expression that is executed at the end of each loop iteration)</p>		
F-FUI-01530		passed	The FOS shall allow the nesting of loop constructs.		0
F-FUI-01535		passed	The FOS shall be capable of prematurely terminating conditional loop execution (i.e., procedure execution jumps to the first directive following the		0

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			end of the loop).		
F-FUI-01538		passed	The FOS shall allow a procedure to reference telemetry parameters.	This includes spacecraft and ground telemetry.	0
F-FUI-01540		passed	The FOS shall allow a user to specify temporary variables within a procedure.		0
F-FUI-01545		failed	The FOS shall allow a user to specify temporary variable arrays within a procedure.		08538
F-FUI-01550		passed	The FOS shall allow a user to specify comments within a procedure.		0

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F-FUI-01555		passed	The FOS shall allow a user to define labels within a procedure.		0
F-FUI-01560		passed	The FOS shall allow a user to specify a jump to a labeled statement within a procedure.		0
F-FUI-01570		passed	The FOS shall allow a procedure to accept arguments when invoked.		0
F-FUI-01585		partially passed	The FOS shall provide arithmetic and logical operators for use within procedures. These operators are identified in the following table.	Operators within the same precedence level will be evaluated from left to	05579

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			Operator precedence is listed from highest to lowest.		
			Directive Operators		
			Operator Function Arity Precedence		
			++ Increment variable unary 1		
			--Decrement variable		
			! Logical NOT		
			~ Bitwise complement unary 2		
			- Arithmetic negation		
			+ Unary plus		
			* Multiplication		
			/ Division binary 3		
			% Modulus		
			+ Arithmetic addition binary 4		
			- Arithmetic subtraction		
			<< Left shift binary 5		
			>> Right shift		
			< Less than		

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			<= Less than or equal to		
			> Greater than binary 6		
			>= Greater than or equal to		
			== Equality		
			!= Inequality		
			& Bitwise AND binary 7		
			^ Bitwise exclusive OR binary 8		
			Bitwise inclusive OR binary 9		
			&& Logical AND binary 10		
			Logical OR binary 11		
			// Concatenation binary 12		
F-FUI-01590		passed	The FOS shall allow the use of parentheses to group arithmetic and logical operations within a directive.	Parentheses have the highest precedence during the evaluation of arithmetic and logical operations.	0

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	F-FUI-01591	passed	<p>The FOS shall provide built-in functions for use within a directive. These functions are defined in the following table.</p> <p>ECL BUILT-IN FUNCTIONS</p> <p>Function Name_____Description</p> <p>acos____trigonometric arc cosine function</p> <p>asin____trigonometric arc sine function</p> <p>atan____trigonometric arc tangent function</p> <p>cos____trigonometric consine function</p> <p>sin____trigonometric sine function</p> <p>tan____trigonometric tangent function</p> <p>cosh____hyperbolic consine function</p>		0

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			sinh____hyperbolic sine function		
			tanh____hyperbolic tangent function		
			exp____exponential function		
			log____natural logarithm function		
			log10____base-10 logarithm function		
			pow____power function		
			sqrt____nonnegative square root function		
F-FUI-02800		partially passed	The FOS shall provide a user the capability to create procedures.		08792
F-FUI-02805		passed	The FOS shall provide an authorized user the capability to edit existing procedures.		0

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F-FUI-02810		passed	<p>The FOS shall provide a user the capability to save procedures according to one of the following procedure types:</p> <ul style="list-style-type: none"> a. emergency b. command c. ground d. local e. activity f. user-defined categories 	<p>The following procedure types will be implemented for FOS:</p> <p>Emergency - a procedure that contains command directives that perform an emergency operation (e.g., safe an instrument). The policy for classifying a procedure as an emergency procedure will be determined by the FOT.</p> <p>Command - a non-emergency procedure that contains at least one command directive.</p> <p>Ground - a procedure that contains at least one ground system directive.</p> <p>Local - a procedure that contains no command or ground system directives.</p> <p>Activity - a procedure created as part</p>	0

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				of a Planning and Scheduling activity definition. User-defined - a category type defined by the user.	
F-FUI-02815		passed	The FOS shall provide a user the capability to save a procedure according to its spacecraft identifier.		0
F-FUI-02820		passed	The FOS shall provide a user the capability to save a procedure according to its instrument identifier.	A procedure may be saved according to both its spacecraft and instrument identifiers (e.g., AM-1, CERES-Aft).	0
F-FUI-02825		passed	The FOS shall provide a user the capability to identify the author of each procedure.		0

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F-FUI-02830		passed	The FOS shall verify that the procedure directives are consistent with the procedure type, except for user-defined procedures, when a save operation is attempted.	For example, a procedure containing a command directive cannot be saved as a local procedure. No consistency checking will be performed for procedures saved under a user-defined category.	0
F-FUI-02835		passed	The FOS shall provide an authorized user the capability to delete existing procedures.		0
F-FUI-02840		failed	The FOS shall provide a user the capability to print existing procedures.		08656
F-FUI-02845		passed	The FOS shall provide a user the following procedure editing capabilities:		0

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			<ul style="list-style-type: none"> a. cut/copy/paste text b. delete text c. insert text d. search for text strings e. replace text strings 		
F-FUI-02850		partially passed	The FOS shall be capable of checking the syntax of a procedure.		07615, 08007, 07532
F-FUI-02855		passed	The FOS shall display the current procedure syntax check status.	The syntax and validation status indicators will be saved with the procedure text when a save operation is performed.	0
F-FUI-02860		passed	The FOS shall provide a user the capability to request validation of procedures.	Procedures will be validated by the Command Management Subsystem. Validation status, including all errors	0
			C-277		324-CD-005-001/ 412-CD-002-001

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				detected, will be returned to the FUI Subsystem and displayed to the user.	
F-FUI-02865		passed	The FOS shall display the current procedure validation status.	The syntax and validation status indicators will be saved with the procedure text when a save operation is performed.	0
F-FUI-02870		passed	The FOS shall display a list of directive keywords that the user may select from to build procedure directives.		0
F-FUI-02875		passed	The FOS shall display a list of directive keyword qualifiers that the user may select from to build procedure directives. The qualifier list will correspond to the selected keyword.		0
F-FUI-02880		passed	The FOS shall display a list of		0
			C-278		324-CD-005-001/ 412-CD-002-001

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			mnemonics descriptors that the user may select from to build procedure directives.		
F-FUI-02885		passed	The FOS shall display a list of mnemonic qualifiers that the user may select from to build procedure directives.	The qualifier list will correspond to the selected discrete mnemonic descriptor.	0
F-FUI-02890		passed	The FOS shall display a set of current limit values that the user may select from to build procedure directives.	The set of limit values will correspond to the selected analog mnemonic descriptor.	0
F-FUI-02895		passed	The FOS shall provide a user the capability to insert the following items into the procedure text: a. directive keywords b. directive keyword qualifiers	Four limit values will be displayed: high-red, high-yellow, low-yellow, and low-red. If the user selects one of these, a corresponding identifier (i.e., a symbolic constant such as HIGH-RED)	0

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			c. mnemonics	will be inserted into the procedure.	
			d. mnemonic qualifiers (for mnemonics with discrete values)	This will allow the procedure to reference the proper limit value from	
			e. limit identifiers (for mnemonics with analog values)	the project data base when the procedure is executed.	
<u>FUI-2060B</u>					
	F-CMD-01315	failed	The EOC shall be capable of transmitting commands from a command procedure consisting of one or more commands.		08694
	F-CMD-03215	unverified	The EOC shall require a user authorization (allow or cancel) prior to uplinking a critical command, regardless of its origin (operator input, command procedure, or ground script).		08694
	F-FUI-01565	passed	The FOS shall allow procedures to		0
			C-280		324-CD-005-001/ 412-CD-002-001

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			invoke other procedures.		
F-FUI-06100		partially passed	The FOS shall allow an authorized user to invoke a procedure at a specified time.	In general, all users will be authorized to execute local procedures since the directives in this type of procedure only impact the user's workspace (e.g., display specified pages in the current room). Only a Command Activity Controller may execute a procedure that contains command directives. Such a procedure (e.g., command procedures or emergency procedures) may be merged with the currently executing ground script directives after evaluating its impact with respect to the current	08694

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				commanding activities. Similarly, only specific users will be authroized to execute ground procedures that contain directives to configure the ground system resources.	
F-FUI-06105		passed	The FOS shall allow a user to terminate an executing procedure.		0
F-FUI-06110		passed	The FOS shall allow a user to suspend an executing procedure.		0
F-FUI-06115		passed	The FOS shall allow a user to resume a suspended procedure.		0
F-FUI-06120		passed	The FOS shall allow multiple local		0
			C-282		324-CD-005-001/ 412-CD-002-001

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			procedures to execute simultaneously.		
F-FUI-06125		failed	The FOS shall allow only one ground system procedure per logical string to execute at any time.	Multiple local procedures may execute simultaneously since the directives in these procedures only affect the user's workstation. Command procedures and emergency procedures, which contain spacecraft or instrument commands, will be merged with the executing ground script directives when they are invoked by the Command Activity Controller. Therefore, only one command procedure can be active at any given time. Similarly, FOS will ensure that only one ground system	08692

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				<p>procedure is active at any time for a logical string in order to avoid conflicts in ground system resource allocation.</p>	
F-FUI-06130		passed	<p>The FOS shall provide a display that allows a user to monitor the execution of a non-command procedure invoked from the user's workstation.</p>	<p>This display is activated when the non-command procedure is invoked. A non-command procedure is one that contains no spacecraft or instrument commands. command procedures can only be executed by a user with command authority and are merged with the currently executing ground script. Users may monitor the execution of a command procedure via the Command Control Display or the Command Monitor Display (reference Section 9.1.6.3).</p>	0

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<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-06135	passed	The FOS shall provide a display that allows a user to control the execution of a non-command procedure invoked from the user's workstation.	This display, which is activated when the procedure is invoked, allows a user to suspend, resume, or terminate the non-command procedure. command procedures are merged with the ground script directives and are controlled via the Command Control Display (reference Section 9.1.6.3).	0
<u><i>FUI-2080B</i></u>					
	F-FUI-12800	partially passed	The FOS shall provide the capability to import and convert OASIS procedures. Any OASIS directives that are not directly convertible to ECL directives will be flagged as "UNCONVERTED".	The FOS cannot automatically validate the procedures. It is the explicit responsibility of the FOT to manually convert any unconverted directives. An FOT member must designate and sign off each procedure as valid.	08048
<u><i>FUI-2090B</i></u>					
	F-FOS-00420	passed	The FOS shall require unique sessions C-285		0 324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			for each operator that access the FOS.		
F-FOS-00430		passed	The FOS shall require a unique user identification and password for each individual user.		0
F-FUI-01400		passed	The FOS shall provide a login screen that allows a user to enter a user name and password.		0
F-FUI-01405		passed	The FOS shall allow a user to specify a user type (e.g., CAC, OLE, PI/TL, etc.) for the current login session.		0
F-FUI-01410		passed	The FOS shall allow a user to have one or more user types.	A user may be specified as only one user type at any given time.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-01415		passed	The FOS shall allow a user to switch to an alternate user type during a	Users will be assigned one or more user types by the PI/TL (IST sites) or EOC Manager (EOC). A user may switch between these assigned user types during a session.	0
F-FUI-01425		passed	The EOC shall provide the capability for an EOC Manager to enter a list of authorized EOC users.	The available EOC user types will be: operations coordinator, ops controller/shift supervisor, ground controller, spacecraft activity controller, instrument evaluator/controller, spacecraft evaluator, flight systems engineer, spacecraft engineer, instrument engineer, mission planner/supervisor, command management analyst,	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				spacecraft planner, instrument planner, ground systems engineer, system specialist, database manager, and software maintenance engineer.	
	F-FUI-01435	passed	The EOC shall provide the capability for an EOC Manager to delete EOC users from the system.		0
	F-FUI-01445	passed	The EOC shall provide the capability for an EOC Manager to change the user types for EOC users in the system.		0
<u><i>FUI-2100B</i></u>					
	F-FUI-01100	passed	The FOS shall provide access to all room definitions in the system.		0
			C-288		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-01105		passed	The FOS shall provide the capability to define a room.		0
F-FUI-01110		passed	The FOS shall provide the capability to modify a room.		0
F-FUI-01115		failed	The FOS shall provide the capability to save a room.		08671
F-FUI-01120		unverified	The FOS shall provide the capability to delete a room.		07835
F-FUI-01125		partially passed	The FOS shall allow a room to consist		08654
			C-289		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			of 0 to 12 windows, with their respective sizes and positions in their default, tiled and user modified states.		
F-FUI-01130		passed	The FOS shall allow a window to belong to more than one room.		0
F-FUI-01135		passed	The FOS shall allow windows to overlap each other.		0
F-FUI-01140		passed	The FOS shall allow a window to have a name.		0
F-FUI-01145		passed	The FOS shall provide the capability to define the default position and size of each of the windows in a room.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-01150		passed	The FOS shall provide the capability to define the tiled position and size of each of the windows in a room.		0
F-FUI-01155		passed	The FOS shall provide the capability to add windows to a room dynamically.		0
F-FUI-01160		passed	The FOS shall provide the capability to delete windows from a room dynamically.		0
F-FUI-01165		passed	The FOS shall provide the capability to switch from one room to another dynamically.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-01170	passed	The FOS shall provide the capability to dynamically reposition windows in a room.		0
	F-FUI-01175	passed	The FOS shall provide the capability to dynamically resize windows in a room.		0
	F-FUI-01180	partially passed	The FOS shall provide the capability for a user to dynamically switch between room states.		08654
<u><i>FUI-2110B</i></u>					
	F-FUI-02600	passed	The FOS shall provide the user a palette of available widgets from which the user may dynamically build a		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			real-time display.		
F-FUI-02605		passed	The FOS shall allow the user to drag widgets via the pointing device from the palette and drop them into the display.		0
F-FUI-02610		passed	The FOS shall provide a palette that shall include: a. label b. field c. (deleted) d. (deleted) e. (deleted) f. graph g. table h. deleted) i. (deleted) j. (deleted)	Items n and o are combined on the palette into a single separator object. The format for this object allows the user to select the orientation (vertical/horizontal).	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<ul style="list-style-type: none"> k. data source l. (deleted) m. (deleted) n. horizontal separator o. vertical separator p. schematic graphic items (point, line, icon, circle, rectangle, ellipse, and polygon) 		
F-FUI-02630		passed	<p>The FOS shall allow the user to save a real-time display definition as:</p> <ul style="list-style-type: none"> a. a local copy, and/or b. a submission to the FOS CCB as permanent, global copy. 		0
F-FUI-02635		passed	<p>The FOS shall allow the user to modify an existing real-time display definition.</p>		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-02640		passed	The FOS shall allow the user to delete a real-time display definition.	Temporary alphanumeric, table, and graph displays can be automatically defined and used immediately through the quick analysis capability. See section 9.1.9.4 for the detailed quick analysis requirements.	0
F-FUI-03105		unverified	The FOS shall allow the user to select an epoch.	An epoch would be selected when the user wants to establish a reference point in time. This could be used to establish epochs for data sets from different times, but with similar data. The epochs would be used to "line up" the data at zero time on the graph.	08367
F-FUI-07300		partially passed	The FOS shall provide graphs that are capable of displaying the following: a. up to six telemetry values vs. time,		08316
			C-295		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			or		
			b. up to six telemetry values vs. a telemetry value		
			c. the high and low, red and yellow limits of the telemetry parameters as lines(dotted, dashed or solid)		
			d. telemetry values as a symbol(optional)		
			e. lines between telemetry parameters (optional) shall be displayed as dotted, dashed or solid		
			f. axis lines (displayed or not)		
			g. axis labels		
			h. axis scales		
			i. axis scale labels		
			j. optional grid lines (dotted, dashed or solid)		
			k. title		

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			l. current range of time displayed m. total range of time available		
F-FUI-07305		passed	The FOS shall allow the user to select up to six telemetry parameters to graph.		0
F-FUI-07310		passed	The FOS shall allow the user to plot data from different times and/or different data sources on a two dimensional graph.		0
F-FUI-07315		passed	The FOS shall display the minimum, current and maximum values of a selected telemetry parameter within the current visible area of the graph.		0
F-FUI-07320		passed	The FOS shall allow the user to select a telemetry parameter from the graph		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			utilizing a pointing device.		
F-FUI-07325		unverified	The FOS shall allow the user to select a range of times or X values, from the total range of time or X values available, in which to view the data.		08314
F-FUI-07330		passed	The FOS shall have the capability to capture all occurrences of a parameter between screen updates, and then display the captured data at the next update.		0
F-FUI-07335		unverified	The FOS shall allow the user to zoom in on the graph.		08364
F-FUI-07340		unverified	The FOS shall allow the user to zoom out from the graph.		08364
			C-298		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-07345		passed	The FOS shall allow the user to select a line style with which a telemetry parameter is displayed.		0
F-FUI-07350		passed	The FOS shall allow the user to select a symbol with which a telemetry parameter is displayed.		0
F-FUI-07355		passed	The FOS shall allow the user to specify whether the graph shall display a grid.		0
F-FUI-07360		passed	The FOS shall allow the user to specify the grid line style (dotted, dashed or solid).		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-07365		unverified	The FOS shall allow the user to specify the grid granularity.		08362
F-FUI-07370		unverified	The FOS shall allow the user to specify which high and low, red and yellow limit lines to display.		08361
F-FUI-07375		passed	The FOS shall allow the user to specify limit line style (dotted, dashed, or		0
F-FUI-07380		unverified	The FOS shall allow the user to select the axis granularity.		08362
F-FUI-07385		passed	The FOS shall allow the user to select		0
			C-300		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			the axis scale labels.		
	F-FUI-07388	passed	The FOS shall allow the user to specify the axis labels.		0
	F-FUI-07390	passed	The FOS shall allow the user to specify the graph title.		0
	F-FUI-07391	passed	The FOS shall allow the user to insert a graph legend.		0
	F-FUI-07392	passed	The FOS shall allow the user to save a graph.		0
			C-301		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-07394		passed	The FOS shall print graphs in either landscape or portrait orientation.		0
F-FUI-07396		passed	The FOS shall allow the user to print up to 4 graphs per page.		0
F-FUI-07398		unverified	The FOS shall provide the visual indication that a telemetry value does not exist within the requested time span.		08368
F-FUI-07400		unverified	The FOS shall provide tables that are capable of displaying the following: a. up to 50 discrete and analog real-time telemetry values over a specified time interval		08305,08375, 08314
			C-302		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<ul style="list-style-type: none"> b. the associated time at each interval c. the descriptor or mnemonic of each telemetry value d. title e. current range of time displayed 		
F-FUI-07410		unverified	The FOS shall allow the real-time table display to have a maximum of 300 rows of data. Once the maximum has been reached, the oldest rows are removed as newer rows are added.	This will allow for 10 minutes work data at a 2 second update rate.	08781
F-FUI-07415		unverified	The FOS shall provide the user with the capability to specify whether the telemetry value is represented by its mnemonic or descriptor.		08305,08375
F-FUI-07425		passed	The FOS shall provide the user with the capability to capture all		0
			C-303		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			occurrences of a telemetry value between screen updates, and then display the captured data at the next screen update.		
<u><i>FUI-2115B</i></u>					
	F-FUI-02610	passed	The FOS shall provide a palette that shall include: a. label b. field c. (deleted) d. (deleted) e. (deleted) f. graph g. table h. deleted) i. (deleted) j. (deleted) k. data source	Items n and o are combined on the palette into a single separator object. The format for this object allows the user to select the orientation (vertical/horizontal).	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>I. (deleted)</p> <p>m. (deleted)</p> <p>n. horizontal separator</p> <p>o. vertical separator</p> <p>p. schematic graphic items (point, line, icon, circle, rectangle, ellipse, and polygon)</p>		
F-FUI-07370		passed	The FOS shall allow the user to specify which high and low, red and yellow limit lines to display.		0
F-FUI-07500		passed	The FOS shall provide a display of two-dimensional schematic drawings.		0
F-FUI-07505		passed	The FOS schematic drawings shall		0
			C-305		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			contain: a. points b. lines c. icons d. text e. circles f. rectangles g. ellipses h. polygons		
F-FUI-07510		passed	The FOS shall color code schematic components, changing colors according to the telemetry parameter limits.		0
F-FUI-07515		passed	The FOS shall drive the color coded schematic components with telemetry values.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-07520	passed	The FOS shall provide the user the capability to save a snapshot of the schematic.		0
	F-FUI-07525	passed	The FOS shall provide the user the capability to print a snapshot of the schematic.		0
<u>FUI-2120B</u>					
	F-DMS-01475	passed	The EOC shall obtain the Long Term Science Plan (LTSP).	The LTSP will be downloaded from an SMC web page.	0
	F-DMS-01480	passed	The EOC shall obtain the Long Term Instrument Plan (LTIP).	The LTIP will be downloaded from an SMC web page.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-02400		passed	The FOS shall allow the user to browse on-line technical documentation.		0
F-FUI-02410		passed	The FOS shall provide a document reader with a search capability.		0
F-FUI-02415		passed	The document reader shall provide the following navigational schemes: a. hypertext forward b. hypertext trace back c. page forward d. page backward e. jump to home page (table of contents) f. search/find on a keyword	Hypertext trace back provides the ability to bring up pages that the user previously viewed.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-02420		passed	The FOS shall provide the user with the capability to cancel document retrieval requests.		0
F-FUI-02425		passed	The FOS shall provide the user with the capability to open one or more document reader windows.		0
F-FUI-02430		passed	The FOS shall provide a history trace window that will keep track of where the user has been throughout a document viewing session.		0
F-FUI-02435		passed	The FOS shall provide the user with the capability to clear the document reader history trace window.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-02440	passed	The FOS shall provide the capability to input a document.		0
	F-FUI-02445	passed	The FOS shall provide the capability to update a document.		0
	F-FUI-02450	passed	The FOS shall provide the capability to delete a document.	The capability to input, update, and delete a document will be procedurally limited to the FOT document manager.	0
<u>FUI-2130B</u>					
	F-FUI-02500	passed	The FOS shall provide an electronic mail (e-mail) capability.		0
	F-FUI-02505	passed	The FOS shall allow the user to send		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an e-mail message to multiple destinations.		
F-FUI-02510		passed	The FOS shall allow a destination to be designated either: a. a user b. a position c. a site		0
F-FUI-02515		passed	The FOS shall allow the user to attach a file to an e-mail message.		0
F-FUI-02520		passed	The FOS shall provide the user a simple editor for composing an e-mail message.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-02525		partially passed	The FOS shall provide the user the following e-mail editing capabilities: a. cut b. copy c. paste d. delete e. undo		08381
F-FUI-02530		passed	The FOS shall provide the user a method for replying to an e-mail message that was sent.		0
F-FUI-02535		passed	The FOS shall allow the user to list all received messages.		0
F-FUI-02540		passed	The FOS shall allow the user to save an e-mail message.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-02545	passed	The FOS shall allow the user to delete an e-mail message.		0
	F-FUI-02550	partially passed	The FOS shall provide the user the following e-mail viewing capabilities: a. view previous message b. view next message c. find a message by: 1. date/time 2. author 3. subject keyword search		08378
<u>FUI-2140B</u>	F-FUI-02100	passed	The FOS shall allow a quick message to contain a maximum of 240 characters.		0
			C-313		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-02110	passed	The FOS shall visually delineate emergency quick messages from information, warning, and alarm quick messages.		0
<u>FUI-2150B</u>					
	F-FUI-02700	passed	The FOS shall allow the user to browse on-line help documentation.		0
	F-FUI-02705	passed	The FOS shall provide the user with the capability to cancel any help data retrieval.		0
	F-FUI-02710	passed	The FOS shall provide the user with the capability to open one or more help		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			windows.		
	F-FUI-02715	partially passed	The FOS shall provide the user with the capability to request help information from any FOS window.		08333 08484,08546
	F-FUI-02720	passed	The FOS shall provide the user a help screen that displays help information pertinent to the display or activity the user is involved in when the user requests help.		0
	F-FUI-02725	passed	The FOS shall provide a help screen with the following navigational schemes: a. hypertext forward b. hypertext trace back c. page forward	Hypertext trace back provides the ability to bring up help pages that the user previously viewed.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			d. page backward e. jump to home page (table of contents) f. search/find on a keyword		
<u>HRD-2000B</u>					
	F-FOS-00450	passed	The EOC LAN shall be able to perform filtering based on network address to control access for external and internal interfaces.	The network address filtering allow/disallows access for particular hosts or groups of hosts.	0
	F-FOS-00455	passed	The EOC LAN shall be able to perform filtering based on TCP socket number to control access for external and internal interfaces.	The TCP socket number provides filtering based on network application such as Telnet, FTP, mail, finger, etc.	0
	F-FOS-00460	passed	The EOC LAN shall be able to perform filtering based on protocol to control access for external and internal	The protocol allows to filter based on type of protocol, such as TCP/IP, Apple Talk, DECnet.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			interfaces.		
F-HRD-00005		passed	Each Real-Time Server shall be physically and functionally identical in supporting the FOS processing requirements.		0
F-HRD-00010		passed	The Real-Time Server shall include a CRT to be used as the local systems operations console.		0
F-HRD-00015		passed	The Real-Time Server shall be upgradeable/expandable with additional quantities and types of peripherals.		0
F-HRD-00020		passed	The Real-Time Server shall be upgradeable/replaceable within the		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>same product family without the need for any perturbation of any software or replacement of any peripheral or attached component.</p>		
F-HRD-00025		passed	<p>At a minimum, the Real-Time Server processor shall meet the following capacity and functional requirements:</p> <p>a. POSIX compliant IEEE 1003.1 operating system (UNIX)</p> <p>b. POSIX compliant IEEE 1003.4 real-time extension</p> <p>c Shall support 2 FDDI interface cards.</p>		0
F-HRD-00030		passed	<p>Real-Time Server disk drives shall provide a minimum of 4 gigabytes and shall be upgradeable to 8 gigabytes.</p>		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-HRD-00035		passed	All disk drives serving a specific function (e.g. system and applications software, or data storage) shall be identical and will have equal capacity.		0
F-HRD-00040		passed	Each Real-Time Server shall support one tape drive.		0
F-HRD-00045		passed	Each Real-Time Server tape drive shall have the following characteristics: a. 4mm Digital Audio Tape (DAT) format b. Accept industry standard magnetic 4mm DAT (i.e. DDS-90) c. Data transfer rate of 400KB/sec		0
F-HRD-00050		passed	The Real-Time Server tape drives shall		0

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FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			be upgradeable/replaceable within the same product family.		
F-HRD-00055		passed	Each Real-Time Server shall support one CD-ROM drive.		0
F-HRD-00060		passed	Each Real-Time Server CD-ROM drive shall have the following characteristics: a. Accept 600MB Compact Disk		0
F-HRD-00065		passed	The cabinet shall provide a RETMA standard 19 inches of equipment mounting width.		0
F-HRD-00070		passed	The cabinet shall be a minimum of 54" and a maximum of 72" tall, with		0
			C-320		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			standard 19" rack mounts.		
F-HRD-00075		passed	The cabinet shall provide a minimum of 24 inches of equipment mounting depth.		0
F-HRD-00090		passed	The cabinet shall provide earth continuity for all components within.		0
F-HRD-00095		passed	The cabinet shall provide sufficient equipment ventilation.		0
F-HRD-00100		passed	The cabinet shall supply a minimum of one power controller.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-HRD-01005	passed	<p>At a minimum, each processor shall meet the following capacity and functional requirements:</p> <ul style="list-style-type: none"> a. POSIX compliant IEEE 1003.1 operating system (UNIX) b. Support AUI 802.3 ethernet connection. c. Support 2GB internal disk. 		0
	F-HRD-01010	passed	<p>Each User Station shall provide one QWERTY keyboard which shall:</p> <ul style="list-style-type: none"> a. Be detachable and cabled for movement on a desk-top style workstation area b. Provide a minimum of 12 programmable function keys 		0
	F-HRD-01015	partially passed	<p>Each User Station shall provide one</p> <p style="text-align: center;">C-322</p>		07527 324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			color text and graphics display device which shall: a. Display the complete ASCII character set b. Provide a minimum of 1024 pixel x 864 lines resolution display c. Display a minimum of 16 colors d. Display pages 24 lines by 80 characters wide e. Display a minimum of four screen display pages f. Display pages readable from any location along the width of the workstation and up to a distance of 6 feet from the screen g. Provide a minimum of 17 inches diagonal non-glare screen h. Provide RGB video output for hard		

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>copy</p> <p>i. Feature an integral swivel/tilt base</p> <p>j. Provide brightness, contrast and power controls within easy reach.</p> <p>k. Be physically relocatable within the operations center</p>		
	F-HRD-01020	passed	The User Station shall provide one cursor pointing device (mouse)		0
	F-HRD-01025	passed	The User Station shall be upgradeable/replaceable within the same product family.		0
	F-HRD-01030	passed	The video hardcopy device shall provide a minimum of 16 colors.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-HRD-01035	passed	The video hardcopy device shall be physically relocatable within the EOC.		0
	F-HRD-01040	passed	The video hardcopy device shall be capable of printing 2 pages per minute.		0
	F-HRD-01045	passed	The video hardcopy device shall be controlled from a remote control.		0
	F-HRD-02005	passed	The Data Server processors shall be physically and functionally identical in supporting the FOS processing requirements.		0
			C-325		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-HRD-02010		passed	Each Data Server shall include a CRT or window to be used as the local systems operations console.		0
F-HRD-02015		passed	Each Data Server shall be upgradeable/expandable with additional quantities and types of peripherals.		0
F-HRD-02020		passed	Each Data Server shall be upgradeable/replaceable within the same product family without the need for any perturbation of any software or replacement of any peripheral or attached component.		0
F-HRD-02025		passed	At a minimum, each Data Server processor shall meet the following		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>capacity and functional requirements:</p> <p>a. POSIX compliant IEEE 1003.1 Operating System (UNIX)</p> <p>b. Shall support 2 FDDI interface cards.</p>		
F-HRD-02030		passed	Data Server disk drives shall provide a minimum of 4 gigabytes and shall be upgradeable to 8 gigabytes.		0
F-HRD-02035		passed	All drives serving a specific function (e.g. system and applications software, or data storage) shall be identical and will have equal capacity.		0
F-HRD-02040		passed	Each Data Server shall support one tape drive.		0
F-HRD-02045		passed	Each Data Server tape drive shall have		0
			C-327		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>the following characteristics:</p> <p>a. 4mm Digital Audio Tape format</p> <p>b. Accept industry standard magnetic 4mm DAT (i.e. DDS-90)</p> <p>c. Data transfer rate of 400KB/sec</p>		
F-HRD-02050		passed	The Data Server tape drives shall be upgradeable/replaceable within the same product family.		0
F-HRD-02055		passed	Each Data Server shall support one CD-ROM drive.		0
F-HRD-02060		passed	Each Data Server CD-ROM drive shall have the following characteristics:		0
			a. Accept 600MB Compact Disk		
F-HRD-02065		passed	The Data Server CD-ROM drives shall		0
			C-328		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			be upgradeable/replaceable within the same product family.		
F-HRD-02070		passed	The cabinet shall provide a RETMA standard 19 inches of equipment mounting width.		0
F-HRD-02075		passed	The cabinet shall provide a minimum of 34 vertical Units (1 Unit = 1.75") of equipment mounting height.		0
F-HRD-02080		passed	The cabinet shall provide a minimum of 24 inches of equipment mounting depth.		0
F-HRD-02095		passed	The cabinet shall provide earth continuity for all components within.		0
			C-329		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-HRD-02100	passed	The cabinet shall provide sufficient equipment ventilation.		0
	F-HRD-02105	passed	The cabinet shall supply a minimum of one power controller.		0
	F-HRD-03005	passed	Shall be compatible with POSIX compliant operating systems.		0
	F-HRD-03010	passed	Shall be accessible from servers and workstations on the network.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-HRD-03015		passed	The RAID storage shall provide a minimum of 40 usable gigabytes.	Amount of addressable disk after RAID has been implemented.	0
F-HRD-03020		passed	All RAID drives shall be identical and have equal capacity.		0
F-HRD-03025		passed	RAID shall support RAID level-5: striping with interleaved parity.	Disk striping with interleaved parity.	0
F-HRD-03030		passed	Disks shall be Hot Swappable.	Parts are replaceable while device is powered on.	0
F-HRD-03035		passed	Power supplies for the RAID shall be hot-swappable.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-HRD-03040	partially passed	The RAID unit shall be network attached or hosted to a minimum of 2 front-end processors.		08043
	F-HRD-03045	passed	The RAID unit shall have a data transfer rate of 10MB per second.		0
	F-HRD-04005	passed	There shall be a minimum of five system printers located at the EOC.		0
	F-HRD-04010	passed	The system printers shall be physically and functionally identical in supporting the FOS printing requirements.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-HRD-04015	passed	The printers shall be capable of printing 8 pages per minute.		0
	F-HRD-04020	passed	There shall be a minimum of two logging printers located at the EOC.		0
	F-HRD-04025	passed	Each logging printer shall be capable of printing a minimum of 1200 lines per minute.		0
	F-HRD-04030	passed	The printer shall support continuous feed paper.		0
	F-HRD-05005	passed	There shall be a minimum of two network time servers located at the		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			EOC.		
	F-HRD-05010	passed	The time reference for each network time server shall be a GFE NASA-36 bit serial time code signal.		0
	F-HRD-05015	passed	The time server shall support the network time protocol (NTP).		0
	F-HRD-05020	passed	There shall be a minimum of two time code displays located at the EOC.		0
	F-HRD-05025	partially passed	There shall be at least one up counter, down counter and universal time code display in the EOC.		08046

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-HRD-06005	passed	<p>The local area network shall support 100Mbps bandwidth and 10 Mbps baseband (different segments) as described by the IEEE 802.3 standard, and shall provide:</p> <ul style="list-style-type: none">a. Data Integrity - The network shall check for transmission errors.b. Redundancy - Redundant connectivity shall prevent a single point of failure.c. Expandability - The network must be able to support up to 100 connections.		0
	F-HRD-06010	passed	<p>The EOC shall be designed with system test features to enable checkout and test with minimum impact on operations, including test points and</p>		0
			C-335		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			permanently installed test equipment.		
	F-HRD-06015	passed	<p>Test equipment to be provided include:</p> <p>a. One communications line monitor to store and display up to 10,000 bytes of data sent and received over any of the communications lines at rates of 10MB/sec to 100MB/sec, and supporting the protocols used by FOS.</p>		0
	F-HRD-07005	passed	<p>The EOC shall provide (for AM-1) three (3) Real-Time Servers configured with:</p> <p>a. Six Fixed Disks (two per Real-Time Server)</p> <p>b. Three Tape Drives (one per Real-Time Server)</p>		0
			C-336		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>c. Three CD-ROM Drives (one per Real-Time Server)</p> <p>d. Three Operator Consoles (one per Real-Time Server)</p> <p>e. Three System Printers (one per Real-Time Server)</p> <p>f. Three Timing Interfaces (one per Real-Time Server)</p>		
F-HRD-07010		partially passed	<p>The EOC shall provide (36) User Stations, which can perform any EOC subsystem function.</p>		07312
F-HRD-07015		passed	<p>The EOC shall provide three (3) Data Servers configured with:</p> <p>a. Six Fixed Disks (two per Data Server)</p> <p>b. Three Tape Drives (one per Data Server)</p>		0
			C-337		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			c. Three CD-ROM Drives (one per Data Server)		
			d. Three Operator Consoles (one per Data Server)		
F-HRD-07017		passed	The EOC shall provide one Data Storage Unit supporting RAID level 5.		0
F-HRD-07020		passed	The EOC shall provide a redundant Local Area Network.		0
F-HRD-07025		passed	All EOC workstations and processors shall be capable of operating simultaneously and independently.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
<u>IST-2000B</u>					
	F-ANA-01010	unverified	The FOS shall be able to access all archived telemetry data for analysis.	The archived telemetry data would need to be in an FOS standard format. It is also required that the applicable data base be provided as well.	08766
	F-FOS-00175	unverified	The EOC shall administer the allocation of IST connections to the EOC.	Allocation of IST connections will be administered based on the policy as defined in the IST Capabilities Document for the ECS Project (194-00602TPW).	08766
	F-FOS-00180	unverified	The EOC shall monitor IST connections for changes in status.	The status monitored tells the EOC if the IST is logically connected to the EOC.	08766
	F-FOS-00605	unverified	The FOS shall enable the existence of additional ISTs if required by the PI/TL		08766

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			to accommodate instrument team members, who may be at geographically separate locations.		
F-FOS-10210		unverified	The FOS shall support up to 15 operational ISTs for the AM-1 mission that are connected to the EOC at any one time.	The FOS will employ a floating pool concept whereby it manages the ISTs that are connected to the FOS. Up to 15 unique ISTs distributed between the AM-1 instruments may be connected to the EOC concurrently.	08766
F-FOS-10215		unverified	The FOS shall provide ten dedicated, simultaneous IST connections at the following locations: a. CERES: 2 in building 1250, LaRC, 2 in building TBD b. MODIS: 2 at GSFC c. MOPITT: 1 at University of Toronto; 1 at NCAR in Boulder		08766
			C-340		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			d. MISR: 2 at JPL		
F-FOS-10220		unverified	The FOS shall provide six (6) additional, non-dedicated IST connections at the following locations:		08766
			a. CERES: 4 [1 at SAIC, 1 at building 1300, LaRC; 1 each at 2 other buildings TBD, LaRC		
			b. MODIS: 1 at GSFC		
F-FOS-10225		unverified	The FOS shall provide an IST software tool kit to the AM-1 spacecraft integration and test facility.		08766
F-FOS-10230		unverified	The FOS shall provide a single IST connection to the AM-1 spacecraft integration and test facility.		08766

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
<u>IST-2010B</u>					
	F-ANA-01025	unverified	The FOS shall be able to access all system generated statistics data files for analysis.	System generated statistics includes MMM statistics based on orbital, daily, monthly, and mission to date intervals, out of limits information based on daily and monthly intervals, and discrete parameter state change information based on daily and monthly intervals.	08779
	F-ANA-01030	unverified	The FOS shall allow the user to access a previously saved dataset for	A dataset is defined to be user specified data from a contiguous period of time from a single spacecraft. The dataset will have a standardized format which is described in the FOS Operations Tools Manual.	08771
	F-ANA-02030	unverified	The FOS shall have the capability to		08801
			C-342		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			utilize more than one valid data base if the time interval requested for data analysis spans an interval during which more than one database was utilized for operations.		
F-ANA-02050		unverified	The FOS shall provide the capability to override the automatic data base selection by the system and process an analysis request using a data base specified by the user.	The user specified database can be any FOS validated database.	08801
F-ANA-03100		unverified	The FOS shall provide the capability to process a request for telemetry MMM data at daily resolution for any time span greater than or equal to one day.		08801
F-ANA-03110		unverified	The FOS shall provide the capability to process a request for telemetry MMM		08801

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			data at monthly resolution for any time span greater than or equal to one month.		
F-ANA-03120		unverified	The FOS shall provide the capability process a request for telemetry MMM data at orbit night resolution for any time span greater than or equal to one orbit.		08801
F-ANA-03125		unverified	The FOS shall provide the capability process a request for telemetry MMM data at orbit day resolution for any time span greater than or equal to one		08801
F-ANA-03130		unverified	The FOS shall provide the capability process a request for telemetry MMM data at full orbit resolution for any time span greater than or equal to one orbit.		08779
			C-344		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-ANA-03180	unverified	The FOS shall provide the capability to process a request for discrete parameter state change statistics data at daily resolution for any time span greater than or equal to one day.		08779
	F-ANA-03190	unverified	The FOS shall provide the capability to process a request for discrete parameter state change statistics data at monthly resolution for any time span greater than or equal to one month.		08779
	F-ANA-03200	unverified	The FOS shall provide the capability to request and access a report for out of limits statistics data at a daily resolution for any time span greater than or equal to one day.		08801
	F-ANA-03210	unverified	The FOS shall provide the capability to		08801
			C-345		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			request and access a report out of limits statistics data at monthly resolution for any time span greater than or equal to one month.		
F-ANA-04020		unverified	The FOS shall be able to generate datasets from archived S/C telemetry.	S/C data is stored in a merged archive of real-time and recorder data. Since this merged archive contains both types, the datasets generated may also contain both, depending on the time span of the dataset.	08801
F-ANA-04040		unverified	The FOS shall provide the capability to generate datasets from data base defined derived parameters.		08771
F-ANA-04050		unverified	The FOS shall provide the capability to generate a dataset from the results of		08768

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			a user supplied algorithm.		
F-ANA-04120		unverified	The FOS shall provide the capability to generate datasets in the carryout format.	Carryout file format is described in the FOS Operations Tools Manual.	08801
F-ANA-04310		unverified	The FOS shall provide the capability to build ASCII reports from the system generated telemetry MMM statistics data.		08779
F-ANA-04360		unverified	The FOS shall produce a Time Ordered Downlink Report for the time interval requested by the user.		08801
F-ANA-06020		unverified	The FOS shall provide the capability to curve-fit a parameter to a polynomial of		08768

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			user specified order, up to order 9.		
F-ANA-06021		unverified	The FOS shall provide the capability to apply a Fast Fourier Transform (FFT) to a parameter.		08768
F-ANA-06022		unverified	The FOS shall provide the capability to smooth a parameter by a user specified factor. Smoothing means that every N data points, where N is the user specified factor, are averaged to yield a single data point.		08768
F-ANA-06023		unverified	The FOS shall provide the capability to compute the Root Mean Square (RMS) of a parameter.		08768

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-ANA-06040		unverified	The FOS shall provide the capability to apply a user supplied algorithm to data maintained in the telemetry archive.	The User algorithms shall be written in the 'C' or 'C++' language and be compiled and linked into a data object appropriate for dynamic linking on the target platform.	08768
F-ANA-06050		unverified	The FOS shall provide the capability to utilize data contained within a dataset as input into a user supplied algorithm.		08768
F-ANA-08060		unverified	The FOS shall provide the capability to selectively decommutate only those parameters which are required to fulfill the analysis request.		08801
F-CMD-02215		unverified	The EOC shall provide the capability to assemble commands from command mnemonic requests.		08742

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-CMD-05310		unverified	The EOC shall provide the IP-ICC with a final instrument uplink status, with a failure status to indicate the point of failure.	The following are examples of possible status: -rejected by EOC -transmitted, not received by spacecraft -received by spacecraft; unsuccessfully executed (or) -dispatched to instrument; unsuccessfully executed -successfully executed. Status is provided via event messages visible at the IST user interface.	08742
F-CMD-05410		unverified	The EOC shall provide an IP-ICC with instrument command notification	For example, by the EOC. Notification is provided via event messages visible	08742
			C-350		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			messages, when emergency or contingency instrument commands are issued by other than the IP-ICC.	at the IST user interface.	
F-CMS-00720		passed	The FOS shall provide the capability to specify the content of an RTS load based on the contents of a previously defined RTS load.		0
F-CMS-00725		unverified	The FOS shall provide the capability to accept an RTS load content imported from the Science Computing Facility (SCF).		08745
F-CMS-00728		unverified	The FOS shall provide the capability to accept an RTS load content imported from the Software Development and Validation Facility (SDVF).		08745

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-CMS-00729		unverified	The EOC shall validate the source and destination of RTS load content generated externally to the FOS.		08745
F-CMS-00730		unverified	The FOS shall provide the capability to validate RTS contents.	The FOS will validate RTS contents using the definition of the RTS buffer characteristics in the PDB.	08745
F-CMS-00850		unverified	The EOC shall generate an RTS load report whenever an RTS load is generated.	All load reports generated will be made available to the IOT through use of the IST.	08745
F-CMS-00915		unverified	The EOC shall provide the capability to generate an RTS Catalog Report listing load content name associated with each RTS load available for uplink in the EOC.		07622

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-CMS-00930		unverified	The EOC shall provide the capability to generate an RTS Map Report listing the name of the load content that is currently loaded into each RTS buffer.		07622
F-CMS-00950		unverified	The FOS shall provide the capability to generate a Memory Map Report listing the memory location (offset within an RTS) and contents of each location in an RTS buffer.		07622
F-CMS-01025		unverified	The FOS shall provide the capability to accept a Table load content imported from the Science Computing Facility (SCF).		07622
F-CMS-01150		unverified	The EOC shall generate a table load report whenever a table load is generated.	All load reports generated will be made available to the IOT through use of the IST.	07622

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-CMS-01215	unverified	The EOC shall provide the capability to generate a Table Catalog Report listing load content name and valid uplink window associated with each table load available for uplink in the EOC.		07622
	F-CMS-01225	unverified	The EOC shall provide the capability to generate a Table Map Report listing the name of the load content that is currently loaded into each table.		07622
	F-CMS-01305	unverified	The FOS shall provide the capability to accept a microprocessor load content imported from the Science Computing Facility (SCF).		08744
	F-CMS-01330	unverified	The EOC shall generate a microprocessor load report whenever	All load reports generated will be made available to the IOT through use of the	08744
			C-354		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			a microprocessor load is generated.	IST.	
F-CMS-01360		unverified	The EOC shall provide the capability to generate a Microprocessor Catalog Report listing load content name and valid uplink window associated with each microprocessor load available for uplink in the EOC.		08744
F-CMS-01405		unverified	The FOS shall provide the capability to accept a flight software load content imported from the Software Development and Validation Facility (SDVF).		08744
F-CMS-01410		unverified	The EOC shall validate the source and destination of binary format flight software load content generated		08744

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			externally to the FOS.		
F-CMS-01430		unverified	The EOC shall generate a flight software load report whenever a flight software load is generated.	All load reports generated will be made available to the IOT through use of the IST.	08744
F-CMS-01460		unverified	The EOC shall provide the capability to generate a Flight Software Catalog Report listing load content name and valid uplink window associated with each flight software load available for uplink in the EOC.		08744
F-CMS-01505		unverified	The EOC shall provide the capability to produce an integrated report which includes the following information in chronological order: a. Absolute time commands to be	The Integrated Report will be made available to the IOT via the IST.	07834

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>executed</p> <p>b. Relative time commands to be executed</p> <p>c. Scheduled spacecraft contacts</p> <p>d. Real-time commands to be uplinked</p> <p>e. Loads to be uplinked</p> <p>f. Expected orbital events</p>		
F-CMS-01725		unverified	The FOS shall provide the capability to export instrument memory dump images to the SCF.	Memory dump images will be exported via the IST.	08515
F-CMS-01730		unverified	The FOS shall provide the capability to export memory dump images to the SDVF.		008515
F-CMS-01820		unverified	The FOS shall validate each field of	Each field will be validated in	08741
			C-357		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			each real-time command in a procedure.	accordance with command PDB definitions.	
F-CMS-01825		unverified	The FOS shall provide the capability to check the real-time commands in a procedure against command-level constraints.	Command-level constraints are defined in the PDB.	08741
F-CMS-10510		unverified	The FOS shall provide the capability to send the ATC Load Report to the ASTER ICC.	The ASTER ICC will have the capability to view and print these reports through the standard IST user interface. Refer to the ICD Between ECS and ASTER GDS for more information.	06940
F-CMS-10750		unverified	The FOS shall provide the capability to send the RTS Load Report to the ASTER ICC.	The ASTER ICC will have the capability to view and print these reports through the standard IST user interface. Refer	06940

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				to the ICD Between ECS and ASTER GDS for more information.	
F-CMS-11510		unverified	The FOS shall provide the capability to send the Integrated Report to the ASTER ICC.	The ASTER ICC will have the capability to view and print these reports through the standard IST user interface. Refer to the ICD Between ECS and ASTER GDS for more information.	07834
F-DMS-00205		failed	The EOC shall provide authorized users the capability to add telemetry definitions to the PDB.	Authorized users are those persons given data base privileges such as the data base administrator.	08736
F-DMS-00210		failed	The EOC shall provide authorized users the capability to delete telemetry definitions maintained in the PDB.		08736

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-DMS-00215		failed	The EOC shall provide authorized users the capability to modify telemetry definitions maintained in the PDB.		08736
F-DMS-00220		failed	The EOC shall provide authorized users the capability to add command definitions to the PDB.		08736
F-DMS-00225		failed	The EOC shall provide authorized users the capability to delete command definitions maintained in the PDB.		08736
F-DMS-00230		failed	The EOC shall provide authorized users the capability to modify command definitions maintained in the PDB.		08736

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-DMS-00235		failed	The EOC shall provide authorized users the capability to add activity definitions to the PDB.	PAS has assumed responsibility for this requirement.	08736
F-DMS-00240		failed	The EOC shall provide authorized users the capability to delete activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	08736
F-DMS-00245		failed	The EOC shall provide authorized users the capability to modify activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	08736
F-DMS-00250		failed	The EOC shall provide authorized users the capability to add constraint definitions to the PDB.	PAS assumes responsibility for activity level constraint definitions.	08736

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-DMS-00255		failed	The EOC shall provide authorized users the capability to delete constraint definitions maintained in the PDB.	PAS assumes responsibility for activity level constraint definitions.	08736
F-DMS-00260		failed	The EOC shall provide authorized users the capability to modify constraint definitions maintained in the PDB.	PAS assumes responsibility for activity level constraint definitions.	08736
F-DMS-01290		passed	The FOS shall provide the capability to generate either local or global events.	Local events are display only for the user (IST or USER Station) that's involved in a "dedicated service " (e.g., dedicated relay or other standalone operations); Global events are multicast to all ISTs and User Stations.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-DMS-01400		unverified	The FOS shall provide the capability to ingest ASCII table load contents.	ASCII table load contents may be ingested from external facilities such as an SDVF.	08743
F-FOS-00317		unverified	The EOC shall receive flight software loads from the Software Development and Validation Facility (SDVF).	Reference the Interface Control Document between the EOC and SDVF for specifics pertaining to this interface.	08744
F-FOS-00318		unverified	The EOC shall send flight software dumps to the Software Development and Validation Facility (SDVF).	Reference the Interface Control Document between the EOC and SDVF for specifics pertaining to this interface.	08744
F-FOS-00430		passed	The FOS shall require a unique user identification and password for each individual user.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FOS-00465		passed	The IST toolkit shall provide data integrity services for remote IST users communicating with the EOC.	The use of the data integrity services for sending information from the IST to the EOC will be evaluated on a case-by-case basis.	0
F-FOS-00470		unverified	The FOS shall provide the capability to authenticate users without sending passwords in the clear across networks.		08802
F-FOS-00475		unverified	The FOS shall provide the capability to limit access of EOC files to authenticated IST users.		08802
F-FOS-00480		unverified	The FOS shall provide authentication, authorization, and data integrity services that can be used by ISTs located inside and outside the United		08802

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			States.		
F-FUI-01120		unverified	The FOS shall provide the capability to delete a room.		06805
F-FUI-01125		unverified	The FOS shall allow a room to consist of 0 to 12 windows, with their respective sizes and positions in their default, tiled and user modified states.		06805
F-FUI-01150		unverified	The FOS shall provide the capability to define the tiled position and size of each of the windows in a room.		06805
F-FUI-01170		unverified	The FOS shall provide the capability to dynamically reposition windows in a room.		06805

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-01175		unverified	The FOS shall provide the capability to dynamically resize windows in a room.		06805
F-FUI-01180		unverified	The FOS shall provide the capability for a user to dynamically switch between room states.		06805
F-FUI-01200		failed	The FOS shall provide the capability to specify the default printer.		08470
F-FUI-01205		failed	The FOS shall provide the capability to specify the default data directories within the system.		08489
F-FUI-01215		failed	The FOS shall provide the capability to		08490
			C-366		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			specify the default color intensities for the real-time windows.		
F-FUI-01220		passed	The FOS shall provide the capability to specify the default colors for non real-time windows.	The selection of colors will be from a predefined palette as defined in the ECS User Interface Style Guide.	0
F-FUI-01225		passed	The FOS shall provide the capability to select the default font styles to be used from a predefined selection.		0
F-FUI-01230		failed	The FOS shall provide the capability to modify the quick access room selections in the control window.		08491
F-FUI-01340		failed	The FOS shall allow the user to initiate functions using function keys.		08794
			C-367		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-01400		passed	The FOS shall provide a login screen that allows a user to enter a user name and password.		0
F-FUI-01405		passed	The FOS shall allow a user to specify a user type (e.g., CAC, OLE, PI/TL, etc.) for the current login session.		0
F-FUI-01415		unverified	The FOS shall allow a user to switch to an alternate user type during a	Users will be assigned one or more user types by the PI/TL (IST sites) or EOC Manager (EOC). A user may switch between these assigned user types during a session.	08802
F-FUI-01420		unverified	The IST shall provide the capability for		08802

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			a PI/TL to enter a list of authorized IST users.		
F-FUI-01430		unverified	The IST shall provide the capability for a PI/TL to delete IST users from the system.		08802
F-FUI-01440		unverified	The IST shall provide the capability for a PI/TL to change the user types for IST users in the system.		08802
F-FUI-01565		unverified	The FOS shall allow procedures to invoke other procedures.		08741
F-FUI-01580		unverified	The FOS shall provide a directive that allows a user to execute a standard		08078

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			UNIX shell command.		
F-FUI-01600		passed	The FOS shall provide the capability to specify the type of screen snap to perform, which includes: a. snap to a printer b. snap to a file		0
F-FUI-01605		passed	The FOS shall provide the capability to snap a window.		0
F-FUI-01610		failed	The FOS shall provide the capability to specify the color intensities for the real-time windows.		08490
F-FUI-01615		passed	The FOS shall provide the capability to	The selection of colors will be from a	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			specify the colors for non real-time windows.	predefined palette as defined in the ECS User Interface Style Guide.	
F-FUI-01620		passed	The FOS shall provide the capability to select the font styles to be used from a predefined selection.		0
F-FUI-02100		passed	The FOS shall allow a quick message to contain a maximum of 240 characters.		0
F-FUI-02202		unverified	The FOS shall allow users to delete files from their local storage area.		08078
F-FUI-02205		unverified	The FOS shall allow the user to request files to be sent from other FOS		08078

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			user station or server.		
F-FUI-02210		unverified	The FOS shall allow the user to select files from available categories.		08078
F-FUI-02215		unverified	The FOS shall provide a find capability for selecting files.	The find capability allows the user to type in text, and highlights the closest alphabetic candidate.	08078
F-FUI-02220		unverified	The FOS shall provide a method to select multiple files to be sent to multiple destinations.		08078
F-FUI-02230		unverified	The FOS shall provide a list of candidate destinations from which to select the destinations for the file		08078

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			transfer.		
F-FUI-02235		unverified	The FOS shall allow the user to deselect files that were selected.		08078
F-FUI-02240		unverified	The FOS shall provide a notification to the user that: a. a file transfer is in progress b. a file transfer has been completed c. a file transfer error has occurred		08078
F-FUI-02315		unverified	The FOS shall allow the user to pause the replay data sequence.	Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.	08343
F-FUI-02320		unverified	The FOS shall allow the user to resume the paused replay data sequence.	Replay data includes telemetry, NCC UPD Messages, and EDOS CODA Reports.	08343

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-02325	unverified	The FOS shall provide the user the capability to reset the begin time when the replay is in pause mode.		08343
	F-FUI-02330	unverified	The FOS shall provide a visual indication of the location of the replay data. This display will include: a. start time b. stop time c. position of current time		08343
	F-FUI-02335	unverified	The FOS shall provide the user a reset capability that will reset the replay time to the last established begin time.		08343
	F-FUI-02600	passed	The FOS shall provide the user a		0
			C-374		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			palette of available widgets from which the user may dynamically build a real-time display.		
F-FUI-02635		passed	The FOS shall allow the user to modify an existing real-time display definition.		0
F-FUI-02840		unverified	The FOS shall provide a user the capability to print existing procedures.		08741
F-FUI-02860		unverified	The FOS shall provide a user the capability to request validation of procedures.	Procedures will be validated by the Command Management Subsystem. Validation status, including all errors detected, will be returned to the FUI Subsystem and displayed to the user.	08741
F-FUI-02920		unverified	The FOS shall provide the capability to		07834
			C-375		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>create a custom report template</p> <p>composed of the following information:</p> <ul style="list-style-type: none"> a. ASCII files b. off-line analysis products c. screen snaps d. blocks of descriptive text 		
F-FUI-02950		unverified	The FOS shall provide the capability to save a report template.		07834
F-FUI-02955		unverified	The FOS shall provide the capability to modify an existing report template.		07834
F-FUI-02960		unverified	The FOS shall provide the capability to delete a report template.		07834

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-02980		unverified	The FOS shall provide the capability to insert a specified off-line analysis product into a report.	An off-line analysis product is either 1) a snapshot of a table or graph produced by an analysis request, or 2) an analysis report.	08801
F-FUI-02990		unverified	The FOS shall provide the capability to insert predefined blocks of text into a report.		07834
F-FUI-02991		unverified	The FOS shall provide the capability to insert routine reports into a report.		07834
F-FUI-02995		unverified	The FOS shall provide the capability to save a completed report.		07834

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-03000	unverified	The FOS shall provide the capability to initiate the printing of a completed report.		07834
	F-FUI-03005	unverified	The FOS shall provide the capability to initiate the report browser/editor with a completed report.		07834
	F-FUI-03025	unverified	The FOS shall provide the capability to display a list of existing report templates.		07834
	F-FUI-03030	unverified	The FOS shall provide the capability to display a list of existing reports.		07834
	F-FUI-03035	unverified	The FOS shall provide the capability to		07834
			C-378		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			initiate the report template builder with a template selected from the template list.		
	F-FUI-03040	unverified	The FOS shall provide the capability to initiate the report generator with a template selected from the template list.		07834
	F-FUI-03045	unverified	The FOS shall provide the capability to select a report from the report list for browsing or editing.		07834
	F-FUI-03050	unverified	The FOS shall provide the capability to display an existing report.		07834
	F-FUI-03055	unverified	The FOS shall provide the capability to print an existing report.		07834
			C-379		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-03060		unverified	The FOS shall provide the capability to edit an existing report.		07834
F-FUI-03061		unverified	The FOS shall provide the capability to save an existing report.		07834
F-FUI-04050		unverified	The FOS shall provide the capability to specify mission schedule access permissions on a timeline display.		08743
F-FUI-04090		unverified	The FOS shall provide the capability to display the start and end times of the Detailed Activity Schedule on the		08743
			C-380		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			timeline display.		
	F-FUI-04100	unverified	The FOS shall provide the capability to highlight activities that violate hard and soft constraints on the timeline display.		08743
	F-FUI-04130	unverified	The FOS shall provide the capability to display the time period that a load is valid for uplink on the timeline display.		08743
	F-FUI-04140	unverified	The FOS shall provide the capability to display detailed information about activities and events selected from the timeline display.		08743
	F-FUI-04280	unverified	The FOS shall provide the capability to display the limit of orbit data from the FDF on the timeline.		08743
			C-381		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-05105	unverified	The FOS shall provide an authorized user the capability to enter table data into a template using the data from an existing table load.		08327
	F-FUI-05200	unverified	The FOS shall allow an authorized user to enter RTS data that will be used to generate an RTS load.		08327
	F-FUI-05205	unverified	The FOS shall provide an authorized user the capability to request the generation of an RTS load.		08327
	F-FUI-05315	unverified	The FOS shall provide a user the capability to display the contents of a ground script with expanded		08327

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			procedures.		
F-FUI-05340		unverified	The FOS shall provide a user the capability to print a ground script with expanded procedures.		08741
F-FUI-05400		unverified	The FOS shall provide a user the capability to display the command-to-memory map of an ATC		08743
F-FUI-05500		unverified	The FOS shall provide a user the capability to display the map of the RTS buffers.		08327
F-FUI-05605		unverified	The FOS shall provide a user the capability to generate a load uplink directive for a selected load.	The Planning and Scheduling and CMS subsystems generate the appropriate load uplink directives as part of the	08327

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				scheduling process. This scheduling procedure is available to any authorized user, not just the CAC. Load uplink directives will normally be placed into procedures to direct the uplink.	
	F-FUI-05705	passed	The FOS shall provide the capability for the user to input the data needed to build the load initiate command.		0
	F-FUI-05725	failed	The FOS shall provide the capability to ingest binary microprocessor and flight software load contents.		08744
	F-FUI-05730	failed	The FOS shall provide the capability to ingest ASCII RTS load contents.	ASCII table load contents may be ingested from external facilities such as an SDVF.	08327
			C-384		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-06115		unverified	The FOS shall allow a user to resume a suspended procedure.		08741
F-FUI-06120		unverified	The FOS shall allow multiple local procedures to execute simultaneously.		08741
F-FUI-06130		unverified	The FOS shall provide a display that allows a user to monitor the execution of a non-command procedure invoked from the user's workstation.	This display is activated when the non-command procedure is invoked. A non-command procedure is one that contains no spacecraft or instrument commands. command procedures can only be executed by a user with command authority and are merged with the currently executing ground script. Users may monitor the	08741

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				execution of a command procedure via the Command Control Display or the Command Monitor Display (reference Section 9.1.6.3).	
	F-FUI-06135	unverified	The FOS shall provide a display that allows a user to control the execution of a non-command procedure invoked from the user's workstation.	This display, which is activated when the procedure is invoked, allows a user to suspend, resume, or terminate the non-command procedure. command procedures are merged with the ground script directives and are controlled via the Command Control Display (reference Section 9.1.6.3).	08741
	F-FUI-06200	unverified	The FOS shall provide an authorized user the capability to generate a command request that contains: a. a procedure to execute		08742
			C-386		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			b. any instructions that the FOT should follow.		
F-FUI-06205		unverified	The FOS shall provide an authorized user the capability to send a command request to the Ops Controller.		08742
F-FUI-06210		unverified	The EOC shall notify the Ops Controller of pending command requests.		08742
F-FUI-06215		unverified	The FOS shall display the status of the pending and accepted command requests. The status display shall contain: a. request Id b. request summary c. status (i.e., accepted, pending)	A pending status indicates that the command request has not been evaluated. An accepted status indicates that the command request has been approved. Once the CAC merges the command request with the ground script directives, the entry is	08742

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			d. originator	removed from the status display.	
			e. date/time received		
			f. date/time acted upon (accepted or rejected).		
			g. instrument Id		
			h. spacecraft Id		
	F-FUI-06220	unverified	The FOS shall allow a user to display the contents of a command request.		08742
	F-FUI-06225	unverified	The FOS shall notify the originator when a command request is accepted.		08742
	F-FUI-06230	unverified	The FOS shall notify the originator when a command request is rejected. This notification shall contain the		08742
			C-388		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			reason for the rejection.		
	F-FUI-06235	unverified	The EOC shall provide the CAC the capability to merge the command request procedure with the current executing ground script directives.		08742
	F-FUI-06330	unverified	<p>The FOS shall display the following verification status for command directives depending upon whether the corresponding verification mode is enabled:</p> <ul style="list-style-type: none"> a. prerequisite state check pass/fail b. receipt of command at the spacecraft/instrument pass/fail (command verification) c. execution of the command by the spacecraft/instrument pass/fail (telemetry verification) 		08742
			C-389		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-07100	passed	The FOS shall allow the user to select an update rate from 1 to 60 seconds.		0
	F-FUI-07120	failed	The FOS shall allow the user to invoke quick analysis on the selected telemetry parameters.		03967
	F-FUI-07125	passed	The FOS shall allow the user to pause the display.		0
	F-FUI-07130	passed	The FOS shall allow the user to resume the display.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-07200	partially passed	<p>The FOS shall provide alphanumeric displays that are capable of displaying the following:</p> <ul style="list-style-type: none">a. the descriptor or mnemonic of a telemetry parameterb. the current state of a discrete telemetry parameterc. the current value of an analog telemetry parameterd. the current state of an analog telemetry parameter based on a range of predefined valuese. whether data associated with a telemetry parameter is suspect (bad quality)f. whether data associated with a telemetry parameter is staticg. whether an analog telemetry value		08334

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<ul style="list-style-type: none"> has violated a range limit h. whether an analog telemetry value has violated a delta limit i. descriptive labels j. static descriptive text k. horizontal and vertical separator lines l. Universal Time Coordinated (UTC)m. spacecraft time n. current orbit number o. data source (real-time, replay, simulated) p. current major/minor frame counts q. current telemetry format r. current telemetry rate s. spacecraft Id 		
	F-FUI-07215	unverified	The FOS shall allow the user to change		08334
			C-392		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			a telemetry parameter's label from descriptor to mnemonic.		
F-FUI-07220		unverified	The FOS shall allow the user to change a telemetry parameter's label from mnemonic to descriptor.		08334
F-FUI-07245		passed	The FOS shall allow the user to change the display of selected telemetry values to any of the following formats: a. converted b. decoded c. raw	The raw format displays the bit string extracted from the telemetry packet. The decoded format displays the integer representation of the raw value. The converted format displays the value of the parameter after its decoded value has been subjected to a parameter-specific conversion function (e.g., apply a calibration curve to the decode value).	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-07250		partially passed	<p>The FOS shall allow the user to change the display representation of selected telemetry values to one of the following:</p> <ul style="list-style-type: none"> a. formatted b. octal c. hex d. binary 	<p>A formatted representation will either be a string, decimal integer, or floating-point number based upon the parameter type and the specified format.</p>	06355
F-FUI-07255		passed	<p>The FOS shall prevent a change in the displayed telemetry format when a non-supported format for a particular parameter is requested (i.e., when a decoded format is requested for a ground telemetry parameter).</p>		0
F-FUI-07300		unverified	<p>The FOS shall provide graphs that are capable of displaying the following:</p> <ul style="list-style-type: none"> a. up to six telemetry values vs. time, 		04723
			C-394		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			or		
			b. up to six telemetry values vs. a telemetry value		
			c. the high and low, red and yellow limits of the telemetry parameters as lines(dotted, dashed or solid)		
			d. telemetry values as a symbol(optional)		
			e. lines between telemetry parameters (optional) shall be displayed as dotted, dashed or solid		
			f. axis lines (displayed or not)		
			g. axis labels		
			h. axis scales		
			i. axis scale labels		
			j. optional grid lines (dotted, dashed or solid)		
			k. title		

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>l. current range of time displayed</p> <p>m. total range of time available</p>		
F-FUI-07305		unverified	<p>The FOS shall allow the user to select up to six telemetry parameters to graph.</p>		04723
F-FUI-07310		unverified	<p>The FOS shall allow the user to plot data from different times and/or different data sources on a two dimensional graph.</p>		04723
F-FUI-07311		unverified	<p>The FOS shall allow the user to plot data from different times and/or different data sources on a three dimensional graph.</p>	<p>This requirement will be implemented Post Release B.</p>	0
F-FUI-07315		unverified	<p>The FOS shall display the minimum, current and maximum values of a</p>		04723
			C-396		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			selected telemetry parameter within the current visible area of the graph.		
F-FUI-07320		unverified	The FOS shall allow the user to select a telemetry parameter from the graph utilizing a pointing device.		04767
F-FUI-07325		unverified	The FOS shall allow the user to select a range of times or X values, from the total range of time or X values available, in which to view the data.		004723
F-FUI-07330		passed	The FOS shall have the capability to capture all occurrences of a parameter between screen updates, and then display the captured data at the next update.		0
F-FUI-07345		unverified	The FOS shall allow the user to select		08777
			C-397		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			a line style with which a telemetry parameter is displayed.		
	F-FUI-07360	unverified	The FOS shall allow the user to specify the grid line style (dotted, dashed or solid).		08777
	F-FUI-07365	unverified	The FOS shall allow the user to specify the grid granularity.		08777
	F-FUI-07370	unverified	The FOS shall allow the user to specify which high and low, red and yellow limit lines to display.		08777
	F-FUI-07375	unverified	The FOS shall allow the user to specify		08777
			C-398		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			limit line style (dotted, dashed, or		
	F-FUI-07388	unverified	The FOS shall allow the user to specify the axis labels.		08777
	F-FUI-07394	unverified	The FOS shall print graphs in either landscape or portrait orientation.		08777
	F-FUI-07396	unverified	The FOS shall allow the user to print up to 4 graphs per page.		08777
	F-FUI-07400	unverified	The FOS shall provide tables that are capable of displaying the following: a. up to 50 discrete and analog real-time telemetry values over a		08777
			C-399		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>specified time interval</p> <p>b. the associated time at each interval</p> <p>c. the descriptor or mnemonic of each telemetry value</p> <p>d. title</p> <p>e. current range of time displayed</p>		
F-FUI-07415		unverified	<p>The FOS shall provide the user with the capability to specify whether the telemetry value is represented by its mnemonic or descriptor.</p>		08777
F-FUI-07425		passed	<p>The FOS shall provide the user with the capability to capture all occurrences of a telemetry value between screen updates, and then display the captured data at the next screen update.</p>		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-07600	unverified	<p>The FOS shall display the following PDB information about discrete and analog telemetry parameters:</p> <ul style="list-style-type: none">a. the descriptorb. the mnemonicc. the valid states of a discrete telemetry valued. the conversion polynomial of an analog telemetry valuee. the delta limits for a telemetry valuef. the high and low, red and yellow limits for a telemetry valueg. the cycles from which the telemetry value is extractedh. the telemetry values on which a derived telemetry value is basedi. parameter Idj. spacecraft Id		08197
			C-401		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-07605	unverified	The FOS shall provide the user with the capability to display up to 50 telemetry parameters and their associated data in an Info window.		08197
	F-FUI-07720	failed	The FOS shall provide one status window for each logical string connection.		08698
	F-FUI-09112	unverified	The FOS shall provide the capability to specify a parameter for input to an algorithm when building an analysis request for historical data analysis. Algorithms can be one of the following: a. user-defined		06400

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-09115		unverified	The FOS shall provide the capability for an analysis request to be submitted using the standing order process.	Standing orders are described in section 9.1.9.3.	06400
F-FUI-09140		unverified	The FOS shall provide the capability to display a request queue of up to 10 submitted analysis requests.	The request queue will display the following data for each request: _a. request name _b. estimated completion time of requests gathering archived/local data _c. estimated completion time for the decom processing of requests (if	06400
F-FUI-09145		unverified	The FOS shall provide the capability to assign priority to a pending request in the request queue.	Requests with the same priority will be processed on FIFO basis.	06400
F-FUI-09150		unverified	The FOS shall provide the capability to		06400
			C-403		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			delete a request from the request queue display.		
F-FUI-09160		unverified	The FOS shall provide the capability to select output products for a completed analysis request.	The output products that can be selected are graphs and tables.	06400
F-FUI-09200		unverified	The FOS shall provide the capability to display off-line analysis results in the following output views: a. graph b. table c. analysis report		06400
F-FUI-09210		unverified	The FOS shall provide the capability to print analysis results.		06400

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-09215	unverified	The FOS shall provide the capability to save analysis output view formats.		06400
	F-FUI-09220	unverified	The FOS shall provide the capability to modify analysis output view formats. Format options include the following: a. engineering units b. raw values c. time		06400
	F-FUI-09225	unverified	The FOS shall provide the capability to use existing data sets as input for analysis requests.		06400
	F-FUI-09300	unverified	The FOS shall accept and process analysis requests containing at a minimum: C-405		06400 324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>a. date/time to start processing the request</p> <p>b. date/time to stop processing the request</p> <p>c. request interval (every n passes, every n orbits, every n hours, every n days, every n weeks, every n months)</p> <p>d. telemetry analysis requests</p> <p>e. report templates</p> <p>f. request name</p> <p>g. name of the person who submitted the request</p>		
	F-FUI-09305	unverified	<p>The FOS shall generate telemetry analysis requests and/or report requests at the specified request interval from the start date to the stop date.</p>		06400
			C-406		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-09310	unverified	The FOS shall receive the associated telemetry analysis data sets, at each request interval, and will initiate the generation of the output products based on the telemetry analysis and/or report requests.		06400
	F-FUI-09315	unverified	The FOS shall produce status for executing standing orders.		08629
	F-FUI-09350	unverified	The FOS standing order browser shall provide information on standing orders including, at a minimum: a. request name b. next interval start time c. standing order status (i.e. active, halted, processing, completed)		08629
			C-407		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			d. name of person who submitted the request		
F-FUI-09355		unverified	The FOS standing order browser shall provide the capability to sort the standing orders by the following criteria including at a minimum: a. request name b. next interval start time c. standing order status d. name of person who submitted request		08629
F-FUI-09360		unverified	The FOS shall allow the user to view the results of a completed standing order.		08629
F-FUI-09363		unverified	The FOS shall allow an authorized user		08629

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			to modify the standing order's interval.		
	F-FUI-09365	unverified	The FOS shall enable an authorized user to suspend a standing order.		08629
	F-FUI-09370	unverified	The FOS shall enable an authorized user to resume a standing order.		08629
	F-FUI-09375	unverified	The FOS shall enable an authorized user to delete a standing order.	The author, CAC, or PI/TL would be the only users authorized to suspend, resume or delete a standing order.	08629
	F-FUI-09410	unverified	The FOS shall provide the following output views for real-time analysis	Requirements for alphanumeric telemetry displays are in 9.1.7.2,	08771
			C-409		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>requests:</p> <ul style="list-style-type: none"> a. alphanumeric telemetry b. real-time graph c. real-time table d. info window 	<p>real-time graphs in 9.1.7.3 and real-time tables in 9.1.7.4.</p>	
F-FUI-09415		unverified	<p>The FOS shall provide the capability to build an analysis request on real-time data that contain the following:</p> <ul style="list-style-type: none"> a. spacecraft Id b. spacecraft subsystem/instrument c. telemetry parameters d. real-time output views e. output view formats 		08771
F-FUI-09500		unverified	<p>The FOS shall provide the capability to register an algorithm that contains the following:</p> <ul style="list-style-type: none"> a. algorithm name 		08768
			C-410		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			b. algorithm object file name c. output parameter name d. input parameters		
	F-FUI-09510	unverified	The FOS shall provide the capability to select a registered algorithm per selected parameters when building an analysis request.		08768
	F-FUI-09515	unverified	The FOS shall provide the capability to select valid discrete and analog values to be used per algorithm.		08768
	F-FUI-09530	unverified	The FOS shall notify the operator of changes in spacecraft or ground telemetry states which pertain to the analysis of spacecraft safe hold mode stability.		08618

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-09600		passed	The FOS shall display informational text messages about events that occur at EOC, ISTs, S/C and instruments.		0
F-FUI-09640		passed	The FOS shall provide the results of an event history request in the event history display.		0
F-FUI-09645		passed	The FOS shall visually alert a user that an event has occurred.		0
F-FUI-09650		unverified	The FOS shall allow the user to activate and deactivate the generation of auditory alarms associated with the occurrence of events.		08760
F-FUI-09655		passed	The FOS shall require that an operator	If the generation of auditory alarms has	0
			C-412		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			acknowledge each event that is defined as an alarm event.	been deactivated by the operator, then the operator does not need to acknowledge the alarm event.	
F-FUI-09660		unverified	The FOS shall allow the operator to locally disable the acknowledgement of alarms functions.		08760
F-FUI-09663		passed	The FOS shall provide the capability to configure an events display as either a local events display or a global events display.		0
F-FUI-09665		unverified	The FOS shall provide the capability for a user to display both a local events display and a global events display.		08292
F-FUI-09700		passed	The FOS shall provide the user with		0
			C-413		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			the capability to request event history data.		
F-FUI-09705		passed	The event history request shall include filtering of events by: <ul style="list-style-type: none"> a. time period b. spacecraft Id c. instrument d. spacecraft subsystem e. event message type 		0
F-FUI-12310		unverified	The FOS shall allow a user to select a replay rate from 1 kilobit per second up to 150 kilobits per second.		07881
F-FUI-14005		unverified	The FOS shall provide notification when a user attempts to schedule science data collection activities that	Notification via timeline display.	08767
			C-414		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			cause overflow of any of the SSR buffers.		
F-FUI-17265		unverified	The FOS shall provide the capability to display the inhibit flags.		08767
F-PAS-00100		passed	The FOS shall provide the capability for an authorized user to view any portion of the mission schedule.		0
F-PAS-00103		passed	The FOS shall provide the capability for an authorized user to restrict user privileges for updating portions of the mission schedule.	Privileges will include read, write, update, and delete and they can be defined for each spacecraft and instrument resource. They can also be defined for specific time periods.	0
F-PAS-00105		passed	The FOS shall provide the capability for		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an authorized user to make updates to a mission schedule for a specific spacecraft.		
F-PAS-00138		passed	The FOS shall make predicted orbit data and planning aids for a specific spacecraft available to authorized users.	DMS has responsibility for this requirement.	0
F-PAS-00140		unverified	The FOS shall provide the capability to notify the user when he attempts to schedule an activity beyond the limit of the predicted orbit data provided by the FDF.	Any activities requested beyond this limit can be scheduled but will not be associated with any particular spacecraft orbit or ground trace. The FOS will not be propagating orbit data beyond what the FDF provides.	08754
F-PAS-00160		passed	The FOS shall provide the capability for an authorized user to make 'what-if' changes without affecting the mission	'What-if' changes will allow planners to study alternate mission schedules in an off-line and non-interfering	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			schedule for a specific spacecraft.	mode.Capabilities like constraint checking that are available for mission schedules will be available in the 'what-if' mode.	
F-PAS-00165		passed	The FOS shall provide the capability for an authorized user to discard 'what-if' changes without affecting the mission schedule for a specific spacecraft.		0
F-PAS-00170		passed	The FOS shall provide the capability for an authorized user to save 'what-if' changes to the mission schedule without affecting the mission schedule for a specific spacecraft.	These changes would be set aside and would not be incorporated. This capability would allow a planner to save a set of changes he has not finished so that he could turn off his machine.	0
F-PAS-00175		passed	The FOS shall provide the capability for		0
			C-417		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>an authorized user to retrieve previously saved 'what-if' changes without affecting the mission schedule for a specific spacecraft.</p>		
F-PAS-00180		passed	<p>The FOS shall provide the capability for an authorized user to delete previously saved 'what-if' changes without affecting the mission schedule for a specific spacecraft.</p>		0
F-PAS-00185		passed	<p>The FOS shall provide the capability for an authorized user to incorporate 'what-if' changes to the mission schedule for a specific spacecraft.</p>		0
F-PAS-00195		passed	<p>The FOS shall prevent a user from inputting 'what-if' requests to any portion of a mission schedule that he</p>		0
			C-418		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			does not have update access for.		
F-PAS-00335		passed	The FOS shall provide the capability for an authorized user to delete an activity from the mission schedule.		0
F-PAS-00340		failed	The FOS shall provide the capability for an authorized user to search for and find an activity on the mission schedule by: its name; or its identifier; or the time.		08025
F-PAS-00355		passed	The FOS shall provide the capability for an authorized user to identify activities on the mission schedule that prevent the scheduling of a specific activity.	This will be used to do impact scheduling. Planners may want to force an activity into the mission schedule. They will be able to insert it into the mission schedule and determine the other activities that are in	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				conflict.	
F-PAS-00365		passed	The FOS shall provide the capability for an authorized user to collect deleted activities in an activity list.	This will allow planners to reschedule deleted activities. The list of deleted activities is only available for the current session.	0
F-PAS-00420		passed	The FOS shall provide read-only access to non-modifiable parameters for an activity that is scheduled .	Parameters of this type will be able to be modified through the controlled process provided by the Data Management Subsystem.	0
F-PAS-00425		passed	The FOS shall provide the capability for an authorized user to create an association between multiple activities or mission events.	This will allow planners to coordinate observations involving multiple instruments and/or in-situ collection activities.	0
F-PAS-00510		passed	The FOS shall provide the capability for an authorized user to schedule	This will allow planners to use BAPs to schedule activities. Start and end	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			activities between a start and end time based on a Baseline Activity Profiles (BAP).	times will be specified so that the BAP is not propagated out to infinity.	
	F-PAS-00900	failed	The FOS shall provide the capability to identify any activity in the mission schedule that causes a soft constraint violation.		08798
	F-PAS-00905	failed	The FOS shall provide the capability to identify any activity in the mission schedule that causes a hard constraint violation.		08798
	F-PAS-00910	failed	The FOS shall provide the capability to determine the constraints that an activity is violating.		08798
	F-PAS-00925	unverified	The FOS shall be able to determine		08798
			C-421		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			when the sun is in the field of view limits of an instrument.		
F-PAS-00940		passed	The FOS shall be able to model state and mode changes in an instrument.		0
F-PAS-00945		failed	The FOS shall be able to determine when an activity violates an 'order' constraint.	An 'order' constraint is one which states that activities must be scheduled in a certain order.	08798
F-PAS-00950		failed	The FOS shall be able to determine when an activity violates a time spacing constraint.	A time spacing constraint is one which states that two activities must be separated by a minimum time interval.	08798
F-PAS-01200		failed	The FOS shall provide the capability to accept a user request specifying an		08540
			C-422		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			uplink window for a load.		
F-PAS-01205		failed	The FOS shall verify the existence of a load specified in the uplink request.		08540
F-PAS-01210		failed	The FOS shall verify a load is valid over the time period specified in the uplink request.		08540
F-PAS-01215		failed	The FOS shall use an uplink window request to schedule the uplink of a load.		08540
F-PAS-01220		unverified	The FOS shall provide the capability to restrict user scheduling functionality based on the user's group.	User's group is defined as instrument team member or flight operations team member.	06676

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-PAS-01300	unverified	The FOS shall provide the capability for an authorized user to generate a graphical timeline plot of a mission schedule.		06676
	F-PAS-01305	unverified	The FOS shall provide the capability for an authorized user to generate a text hardcopy of the scheduling constraint event messages.		06676
	F-PAS-01310	unverified	The FOS shall provide the capability for an authorized user to generate a text hardcopy that summarizes a mission schedule.	This report will be a textual list of activity names, scheduled times, parameters, etc.	06676
	F-PAS-10009	unverified	The FOS shall notify the ASTER ICC when an ASTER activity in a mission		08762
			C-424		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			schedule is affected by updated orbit data from FDF.		
	F-PAS-10305	unverified	The FOS shall provide the AM-1 mission schedule to the ASTER ICC as specified in the ASTER ICC ICD.		08545
	F-PAS-10560	unverified	The FOS shall notify the ASTER ICC of any activities that they submitted that violate constraints.		08476
	F-PAS-10565	unverified	The FOS shall notify the ASTER ICC of the specific constraint that was violated for ASTER activities that violate constraints.		08476
	F-PAS-10605	unverified	The FOS shall provide the capability to determine the number of CERES scans		08525
			C-425		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			between sunrise and sunset events for a given satellite orbit.		
F-PAS-10623		unverified	The FOS shall provide the capability for an authorized user to generate MISR Local Mode visibility mission events.		08713
F-PAS-10625		unverified	The FOS shall provide the capability to determine MISR access to local mode targets.	This is intended to be displayed on the timeline as an event.	08653
F-PAS-10700		unverified	The FOS shall provide the capability to identify valid uplink windows for MISR microprocessor loads.	There will be a constraint in the database that limits these windows to nighttime only.	08725
F-PAS-10705		unverified	The FOS shall display the valid uplink window for the MISR microprocessor		08744

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			load		
F-RMS-00130		passed	The EOC shall provide an IST operator access to real-time data.		0
F-RMS-00140		unverified	The EOC shall provide an IST operator access to replay data.		08785
F-RMS-00150		unverified	The EOC shall provide an IST operator access to simulated data.		08785
F-RMS-00160		unverified	The EOC shall provide multiple IST operators access to the same data streams.		08785

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-RMS-00170		unverified	The EOC shall provide a single IST operator access to multiple data streams.	The number of streams a single IST operator is allowed to access at one time will not be restricted by the RMS software.	08785
F-RMS-03060		passed	The EOC shall make ground configuration and component statuses available for display to the IST operators.		0
F-TLM-00535		passed	The FOS shall be capable of continuously decommutating real-time spacecraft housekeeping telemetry at rates up to 50 Kbps per spacecraft.		0
F-TLM-00540		passed	The FOS shall be capable of continuously decommutating real-time instrument housekeeping telemetry at		0
			C-428		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			rates up to 50 Kbps per spacecraft.		
F-TLM-00920		failed	The FOS shall provide the capability to select an EU conversion algorithm based upon the value of an associated predefined discrete telemetry point.	This capability permits a context switched EU conversion. Up to sixteen (16) predefined switch ranges are available. The discrete may be either a decommutated or derived telemetry parameter.	08783
F-TLM-00925		passed	The FOS shall provide the capability for the user to select a predefined EU conversion algorithm.		0
F-TLM-00970		passed	The FOS shall provide the capability for the user to adjust the predefined EU conversion algorithm coefficient values.	Changing of the coefficient values via user directive is temporary. Permanent alterations may be accommodated through changes in the coefficient values resident within the Project Data	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				Base. Whenever a new set of limits is loaded, the data base defined values will be restored.	
F-TLM-00985		passed	The FOS shall allow specification of up to eight (8) different EU segments for each analog parameter.	A separate EU conversion can be specified for each segment.	0
F-TLM-00990		passed	The FOS shall be capable of performing conversion of segmented EUs.	Segmented EU conversion will use the following equation: $y = C0 + C1X + C2X^{**2} = C3X^{**3}$ where X is the decoded value, Ci is a data base defined coefficient, and y is the converted value.	0
F-TLM-01020		failed	The FOS shall allow for the selection of a single boundary limit group from a limit set containing up to four groups of	Each boundary limit group is capable of accommodating red and yellow high/low limit values.	08751

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			boundary limits per parameter.		
F-TLM-01025		failed	The FOS shall provide the capability to select a boundary limit group based upon the value of an associated predefined discrete telemetry parameter.	This capability permits a context switched boundary group selection. Up to sixteen (16) predefined switch ranges are available. The discrete may be either a decommutated or derived telemetry parameter.	08746
F-TLM-01030		failed	The FOS shall provide the capability for the user to select a predefined boundary limit group.		08746
F-TLM-01035		partially passed	The FOS shall use high and low limit values in raw or EU counts as specified for decommutated and derived parameters when limits have been defined.	Limits for both decommutated and derived parameters are specified through the Project Data Base.	08746
			C-431		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-TLM-01120		passed	The FOS shall notify the user when a parameter incurs a delta limit violation.		0
F-TLM-01130		failed	The FOS limit notification shall be reported when a telemetry point exceeds a limit, when the point comes back in limits, and every Nth occurrence (based upon the limit sense interval).		08697
F-TLM-01145		failed	The FOS shall be capable of reporting limit violations based upon a predefined limit sense interval for each normal and derived parameter that has defined limits.	The limit sense interval modifies only the notification reporting rate and has no affect on limit checking and indicator updates. The FOS will use the predefined limit interval values as the initial default limit notification period.	08697

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-TLM-01150		failed	The FOS shall provide notification of any out-of-limits status every Nth sample occurrence, where N is defined as the limit sense interval for that parameter.		08697
F-TLM-01155		passed	The FOS shall provide the capability of disabling (suppressing) or enabling notification messages concerning limits for all parameters.	Although the display of notification messages may be suppressed, the messages will continue to be stored or logged. The FOS default limit condition reporting mode will be 'enabled'.	0
F-TLM-01210		partially passed	The FOS shall provide the user the capability of changing limit values, delta limit values, and limit sense intervals.	Changing of the limit values via user directive is temporary. Permanent alterations may be accommodated through changes in the limit values resident within the Project Data Base. Whenever a new set of limits is loaded, the data base defined limits and sense	08289

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				intervals will be restored.	
F-TLM-01215		failed	The FOS shall provide the user the capability to access current limit values and delta limit values in both raw and engineering units.	Where conversions from engineering units to raw results in a non-unique value, the value will be disallowed and discarded.	08697
F-TLM-01220		unverified	The FOS shall allow adjustment of limit values only for those telemetry parameters that have predefined limit values.		08697
F-TLM-01310		unverified	The FOS shall evaluate derived parameters based on specified, predefined equations.	The derived parameter algorithms will be obtained from telemetry data base definitions.	08697
F-TLM-01315		failed	The FOS shall use analog telemetry values, discrete telemetry values, constants, or other derived parameters	The FOS telemetry data base will limit the number of input parameters for each derived parameter equation to six	08697

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			to build new derived parameters.	(6).The maximum number of derived parameters that may be processed at any given time will be determined for each mission.	
F-TLM-01320		passed	The FOS shall be capable of using either decoded or converted values when evaluating derived telemetry parameters.	The Telemetry parameter values used as inputs to the derived parameter equation will be specified as either decoded or converted via the telemetry database.	0
F-TLM-01355		failed	The FOS shall allow individual derived parameter evaluations to be enabled or disabled.		07859
F-TLM-01415		passed	The FOS shall make available the status for every predefined telemetry parameter.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-TLM-01425	passed	<p>The FOS shall make available, on a per-parameter basis, the following:</p> <ul style="list-style-type: none">a. last decommutated raw valueb. associated converted value (if applicable)c. limit range values (if applicable)d. limit sense intervale. no data available indicatorf. static/active indicatorg. quality status indicatorh. out-of-limits low indicators (if applicable)i. out-of-limits high indicators (if applicable)j. delta limit error indicatork. conversion error indicator		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-TLM-01635		unverified	The FOS shall be capable of processing stored housekeeping and engineering telemetry for display at rates up to 150 Kbps.	This requirement permits the repid replay and display of stored telemetry, and may be useful during contact simulations.	08785
F-TLM-01640		unverified	The FOS shall be able to replay and process the telemetry data at the real-time or at a user specified rate.		08785
F-TLM-10125		passed	The EOC shall be capable of receiving AM-1 housekeeping and AM-1 diagnostic telemetry data from both the I-channel and Q-channel simultaneously.	For example, the EOC will be able to accept telemetry with the I and Q channels in the following configurations: 2 - 16 kbps housekeeping or 1 - 16 kbps housekeeping and 1 - 16 kbps diagnostic	0
F-TLM-10535		passed	The FOS shall be capable of		0
			C-437		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			continuously decommutating real-time spacecraft housekeeping telemetry at a rate of 16 Kbps.		
F-TLM-10540		passed	The FOS shall be capable of continuously decommutating real-time instrument housekeeping telemetry at a rate of 16 Kbps.		0
F-TLM-10560		passed	The FOS shall be capable of continuously decommutating real-time spacecraft health and safety telemetry at a rate of 1 Kbps.		0
F-TLM-10570		passed	The FOS shall be capable of decommutating real-time spacecraft diagnostic telemetry at a rate of 1 Kbps.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-TLM-10580	passed	The FOS shall be capable of decommutating real-time spacecraft standby CTIU telemetry at a rate of 1 Kbps.		0
	F-TLM-11320	failed	The FOS shall provide the capability to process a maximum of fifty (50) AM-1 derived parameters at a given time.		007859
 <u>NCC-2020B</u> 					
	F-FOS-00320	passed	The EOC shall use Ebnet for data communications for the following types of data: a. Real-time telemetry data, rate-buffered telemetry data	Reference the Interface Control Document between the EOC and Ebnet for specifics pertaining to this interface.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<ul style="list-style-type: none"> b. Command data c. TDRSS schedule requests and TDRSS schedules d. Data exchange with the FDF, NCC and EDOS 		
	F-RMS-04020	passed	<p>The EOC shall provide the capability to send the following Ground Configuration Message Requests to the NCC:</p> <ul style="list-style-type: none"> a. User Reacquisition Request b. User Reconfiguration Request c. Forward Link Sweep Request d. Forward Link EIRP Reconfiguration Request 		0
			C-440		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			e. Expand User Frequency Uncertainty Request		
			f. Doppler Compensation Inhibit/Enable Request		
	F-RMS-04090	passed	The EOC shall provide the capability to receive and process Acquisition Failure Notification messages from the NCC.		0
	F-RMS-04100	passed	The EOC shall provide the capability to receive and process GCM Status messages from the NCC.		0
	F-RMS-04110	passed	The EOC shall provide the capability to receive and process GCM Disposition messages from the NCC.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-RMS-04120	passed	The EOC shall provide the capability to exchange Communication Test and Acknowledgment messages to determine prepass operational readiness.		0
 <u><i>NCC-2030B</i></u> 					
	F-FOS-00320	passed	The EOC shall use Ebnet for data communications for the following types of data: a. Real-time telemetry data, rate-buffered telemetry data b. Command data c. TDRSS schedule requests and TDRSS schedules d. Data exchange with the FDF, NCC	Reference the Interface Control Document between the EOC and Ebnet for specifics pertaining to this interface.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			and EDOS		
	F-FOS-00335	passed	The EOC shall receive TDRSS schedules and User Performance Data (UPD) from the Network Control Center (NCC).	Reference the Interface Control Document between the NCCDS and GSFC MOCs for specifics pertaining to this interface.	0
	F-RMS-04010	passed	The EOC shall provide the capability to send User Performance Data Request messages to the NCC.		0
	F-RMS-04085	passed	The EOC shall provide the capability to receive and process Time Transfer messages from the NCC.	Reference Section 7.2.5.3.	0
<u>NCC-2040B</u>					
	F-ANA-01015	unverified	The FOS shall be able to access all archived NCC/EDOS data for analysis.		08776
			C-443		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-ANA-01050	unverified	The FOS shall be able to access NCC User Performance Data (UPD) for analysis.		08776
	F-ANA-03012	unverified	The FOS shall be able to perform analysis on all NCC and EDOS parameters contained within the stored NCC/EDOS data received during real time.		08776
	F-ANA-04035	unverified	The FOS shall provide the capability to generate datasets from stored NCC and EDOS data received in real time.		08776
	F-ANA-07010	unverified	The FOS shall provide the capability to		08776
			C-444		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			perform MMM statistics on EDOS and NCC data received during real time.		
F-ANA-07020		unverified	The interval for NCC/EDOS statistics shall be equal to the duration of the real time pass during which the statistics are performed.		08776
F-ANA-07030		unverified	The FOS shall provide the capability to process a request for EDOS/NCC statistics for any time span greater than one second and less than three (3) months.	The statistical data generated by the FOS shall not be available until after the real time pass during which it was generated.	08776
F-RMS-05010		unverified	The EOC shall provide the capability to replay stored NCC ground telemetry based upon a user specified time period.	UPD Messages only.	08776

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-RMS-05020		unverified	The EOC shall process all NCC ground telemetry blocks for the requested period, during the replay operation.	UPD Messages only.	08776
F-RMS-05030		unverified	The EOC shall be capable of processing stored NCC ground telemetry for analysis at twelve (12) times the real-time rate.	This requirement is derived from the fact that the FOS must be able to analyze twenty-four (24) hours of stored telemetry data within a two (2) hour period. This capability is used for off-line batch processing and when immediate display of information is not necessary or desired (i.e., gathering statistics on a particular parameter over several weeks of stored ground telemetry data.)	08776
F-RMS-05040		unverified	The EOC shall be able to process	UPD Messages only.	08776

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			stored NCC ground telemetry at the real-time rate or at a user specified rate up to three (3) times the real-time rate.		
<u>OPR-2000B</u>					
	F-ANA-04060	passed	A dataset size shall only be limited by the maximum UNIX file size (2 GB).		0
	F-DMS-01150	passed	The EOC shall provide 2 days of storage for staging long-term telemetry data.	This requirement will be used for disk sizing. Long-term telemetry data is data that is retrieved from the SDPS.	0
	F-FOS-00040	passed	The EOC shall have the capability to schedule its systems and communications interfaces that are used for multiple spacecraft and	The scheduling requirement will be implemented through operations at the EOC.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			instrument operations and for other activities, including maintenance, upgrade, sustaining engineering, testing, and training.		
F-FOS-00045		passed	The EOC shall participate in the scheduling of interface and end-to-end tests with the external elements involved, including the IP-ICCs, the spacecraft simulator(s) and EDOS for MO&DSD data delivery systems.	The scheduling requirement will be implemented through operations at the EOC.	0
F-FOS-00075		passed	The EOC shall provide tests for validating, verifying, and checking functional capabilities and performance for EOC functions after the EOC has been repaired or upgraded.		0
F-FOS-00080		passed	The EOC shall provide standard test		0
			C-448		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			data sets to be used in the validation of EOC function.		
F-FOS-00085		passed	The EOC shall support instrument integration activities associated with the spacecraft prior to launch.		0
F-FOS-00090		unverified	The EOC shall use simulations and test functions of the spacecraft simulator(s) to check out the EOC functions.		08532
F-FOS-00095		unverified	The EOC shall support spacecraft and instrument tests at the integration site and at the launch site.		08533
F-FOS-00110		unverified	The EOC shall be capable of		08584
			C-449		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>simultaneously supporting the Independent Verification and Validation (IV&V) activities and ECS development activities, both before and after flight operations begin.</p>		
F-FOS-00115		passed	<p>The EOC shall provide the following to be used in the revalidation of its functional performance:</p> <ul style="list-style-type: none"> a. Benchmark test(s) b. Standard test data sets. 		0
F-FOS-00120		passed	<p>The EOC shall provide access to the following items used in the checkout and verification process:</p> <ul style="list-style-type: none"> a. Stored test data sets b. Stored test plans c. Stored test procedures. 		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FOS-00125		passed	The EOC shall be able to validate at any time during the life-time of the ECS that the EOC primary functional performance is consistent with pre-defined operational benchmark		0
F-FOS-00130		passed	The EOC shall be capable of verifying the fidelity of the EOC interface to: a. Other ECS components at any time during the lifetime of the ECS b. Entities external to ECS at any time during the lifetime of the ECS		0
F-FOS-00140		passed	The EOC shall provide a set of real or simulated functions which interfaces with both ECS internal and external entities for use in the following types of test: a. FOS Subsystems		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>b. EOC</p> <p>c. ECS System (integration of ECS components)</p> <p>d. EOSDIS System (Integration of EOSDIS components)</p>		
F-FOS-00145		passed	The EOC shall support end-to-end EOS system testing and fault isolation.		0
F-FOS-00155		passed	The EOC shall be capable of supporting end-to-end test and verification activities of the EOS program including during the pre-launch, spacecraft verification, and instrument verification phases.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FOS-00160		partially passed	<p>The EOC shall generate the following:</p> <ul style="list-style-type: none"> a. (deleted) b. EOC resource utilization report c. EOC anomaly report d. EOC maintenance report e. EOC hardware/software configuration history 	<p>Reports are generated manually by the FOT.</p>	08530
F-FOS-00165		unverified	<p>The EOC shall prepare a compliance report with the LTSP and LTIP.</p>	<p>The compliance report with the LTSP and the LTIP will be manually prepared by the Flight Operations Team (FOT).</p>	08529
F-FOS-00220		passed	<p>The EOC shall support the following simultaneous activities:</p> <ul style="list-style-type: none"> a. Performing mission coordination, planning, scheduling, monitoring, and commanding of the U.S. spacecraft and instruments as listed in Appendix D 		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>of the ECS Functional and Performance Specification.</p> <p>b. At least two of the following: mission test activities, EOC system upgrades, training, and/or maintenance.</p>		
F-FOS-00225		passed	The EOC computer hardware shall be able to grow without redesign to twice the processing, storage, and network communications capacities estimated for full system operation.		0
F-FOS-00300		unverified	The EOC shall interface with the EOS Project Scientist for resolution of conflicts between instrument activities of equal priority.	This requirement will be fulfilled manually between the FOS and the Project Scientist.	08528
F-FOS-00500		passed	FOS functions shall have an	The above requirement covers	0
			C-454		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			operational availability of 0.96 at a minimum (.998 design goal) and an MDT of four (4) hours or less (1.5 hour design goal), unless otherwise specified.	equipment including: _a. "Non-critical" equipment configured with the critical equipment supporting the functional capabilities in the requirements. _b. Equipment providing other functionality not explicitly stated in the RMS requirements that follow.	
F-FOS-00505		passed	The FOS shall have an operational availability of 0.9998 at a minimum (.99997 design goal) and an MDT of one (1) minute or less (0.5 minute design goal) for critical real-time functions that support: a. Launch b. Early orbit checkout c. Orbit adjustment d. Anomaly investigation		0
			C-455		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>e. Recovery from safe mode</p> <p>f. Routine real-time commanding and associated monitoring for spacecraft and instrument health and safety</p>		
F-FOS-00510		passed	The EOC shall have no single point of failure for functions associated with real-time operations of the spacecraft and instruments.		0
F-FOS-00515		passed	The FOS shall have an operational availability of 0.99925 at a minimum (.99997 design goal) and an MDT of five (5) minutes or less (0.5 minute design goal) for non-critical real-time functions.		0
F-FOS-00520		passed	The FOS shall have an operational		0
			C-456		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			availability of 0.992 at a minimum and a MDT of (1) hour or less for functions associated with Targets of		
	F-PAS-10410	unverified	The EOC shall provide the capability to schedule S-band contingency communication contacts.	Requirement met through M&O Procedures	08527
	F-PAS-10415	unverified	The EOC shall provide the capability to receive S-band contingency communication contact times.	Requirement met through M&O procedures.	08526
<u>PAS-2000B</u>					
	F-DMS-00150	passed	The EOC shall accept spacecraft and instrument activity definitions.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-DMS-00160		passed	<p>The activity definitions shall contain the following information:</p> <ul style="list-style-type: none"> a. command listing b. parameter mapping definition c. parameter limit definitions 	<p>Activity definitions are used in support of planning & scheduling and command management. Activities may contain real-time commands, stored commands, ECL directives, and command procedure names. This includes label activities (i.e., activities that don't have commands associated with them). Parameter mapping definitions are the listing of command parameters (submnemonics) associated with the commands in the activity definition.</p>	0
F-DMS-00235		passed	<p>The EOC shall provide authorized users the capability to add activity definitions to the PDB.</p>	<p>PAS has assumed responsibility for this requirement.</p>	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-DMS-00240		passed	The EOC shall provide authorized users the capability to delete activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	0
F-DMS-00245		passed	The EOC shall provide authorized users the capability to modify activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	0
F-DMS-00330		unverified	The EOC shall provide the capability to perform validation on the activity definitions maintained in the PDB.	PAS has assumed responsibility for this requirement.	07973
F-PAS-00200		passed	The FOS shall provide the capability for an authorized user to create an activity definition.	Activity definitions will be stored in the Project Database.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00205		passed	The FOS shall provide the capability for an authorized user to modify an activity definition.		0
F-PAS-00210		passed	The FOS shall provide the capability for an authorized user to delete an activity definition.		0
F-PAS-00215		passed	The FOS shall provide the capability to associate a command sequence with an activity definition.	Commands will be identified using mnemonic names from the Project Database. Commands include spacecraft and ground directives. Constraint checking of command sequences will be done by Data Management as part of the Project Database validation process.	0
F-PAS-00220		passed	The FOS shall provide the capability to	The user will be able to specify	0
			C-460		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			define parameters in an activity definition and associate them with individual commands in an activity command sequence.	parameter values when the activity is scheduled.	
F-PAS-00330		passed	The FOS shall assign a unique identifier to each individual activity in the mission schedule.	This will allow planners to specifically identify activities. For instance, if a planner found an activity on a textual report and wanted to display it on the timeline, the unique identifier will help him find it more easily on the timeline.	0
F-PAS-00400		partially passed	The FOS shall provide the capability for an authorized user to supply optional parameters before an activity is scheduled .	Optional parameters are values for command submnemonics and values for command procedure variables.	08040, 08525
F-PAS-00415		passed	The FOS shall not allow an optional parameter to be defined out of predefined limits for an activity that is		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
<i>scheduled .</i>					
<u>PAS-2010B</u>					
	F-PAS-00500	passed	The FOS shall provide the capability for an authorized user to create a list of recurring activities and store them in a Baseline Activity Profile (BAP) definition for an instrument, spacecraft subsystem, or ground system.		0
	F-PAS-00503	passed	The FOS shall provide the capability for an authorized user to maintain a Baseline Activity Profile (BAP) definition.	'Maintain' implies that a user will be able to edit or modify a BAP definition.	0
	F-PAS-00505	passed	The FOS shall provide the capability for an authorized user to delete a Baseline Activity Profile (BAP) definition.	For instance, if the cycle were an orbit an instrument planner may want to schedule an activity after every satellite sunrise and sunset. Another	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				instrument planner may want to schedule an activity before each lunar eclipse that occurs in a year.	
<u>PAS-2020B</u>					
	F-PAS-00105	passed	The FOS shall provide the capability for an authorized user to make updates to a mission schedule for a specific spacecraft.		0
	F-PAS-00115	passed	The FOS shall provide the capability for an authorized user to create a mission schedule for a specific spacecraft.		0
	F-PAS-00135	passed	The FOS shall provide the capability for an authorized user to update portions of a mission schedule for a specific spacecraft.		0
			C-463		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00140		passed	The FOS shall provide the capability to notify the user when he attempts to schedule an activity beyond the limit of the predicted orbit data provided by the FDF.	Any activities requested beyond this limit can be scheduled but will not be associated with any particular spacecraft orbit or ground trace. The FOS will not be propagating orbit data beyond what the FDF provides.	0
F-PAS-00150		passed	The FOS shall provide the capability for an authorized user to incorporate updated orbit data from the FDF into the mission schedule for a specific spacecraft.		0
F-PAS-00153		unverified	The FOS shall notify the user when an activity in a mission schedule is affected by updated orbit data from FDF.		08192
F-PAS-00300		passed	The FOS shall provide the capability for		0
			C-464		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an authorized user to schedule an activity for a specific date and time		
F-PAS-00310		passed	The FOS shall provide the capability for an authorized user to schedule an activity at user defined intervals starting at a specific date and time.	Planners will be able to select the following intervals: every n seconds (1 - 6000); or every n minutes (1 - 1440); or every n hours (1 - 960); or every n days (1 - 365); or every n weeks (1 - 52); or every n months (1 - 60); or every n years (1 - 10); or every orbit.	0
F-PAS-00315		passed	The FOS shall provide the capability for an authorized user to schedule an activity at a delta time from some mission event.		0
F-PAS-00335		passed	The FOS shall provide the capability for		0
			C-465		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an authorized user to delete an activity from the mission schedule.		
F-PAS-00340		failed	The FOS shall provide the capability for an authorized user to search for and find an activity on the mission schedule by: its name; or its identifier; or the time.		08025
F-PAS-00350		passed	The FOS shall provide the capability for an authorized user to schedule a list of activities.		0
F-PAS-00355		passed	The FOS shall provide the capability for an authorized user to identify activities on the mission schedule that prevent the scheduling of a specific activity.	This will be used to do impact scheduling. Planners may want to force an activity into the mission schedule. They will be able to insert it into the mission schedule and	0
			C-466		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
				determine the other activities that are in conflict.	
F-PAS-00360		passed	The FOS shall provide the capability for an authorized user to delete activities that prevent the scheduling of a specific activity.	If planners determine that the forced activity will take precedence they will be able to delete other activities in conflict.	0
F-PAS-00365		passed	The FOS shall provide the capability for an authorized user to collect deleted activities in an activity list.	This will allow planners to reschedule deleted activities. The list of deleted activities is only available for the current session.	0
F-PAS-00405		passed	The FOS shall supply predefined default parameter values if optional parameters are not supplied before an activity is scheduled .	Optional parameters are values for command submnemonics and values for command procedure variables.	0
F-PAS-00410		passed	The FOS shall provide the capability for	Optional parameters are values for	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an authorized user to modify optional parameters for an activity that is already scheduled .	command submnemonics and values for command procedure variables.	
F-PAS-00420		passed	The FOS shall provide read-only access to non-modifiable parameters for an activity that is scheduled .	Parameters of this type will be able to be modified through the controlled process provided by the Data Management Subsystem.	0
F-PAS-00425		passed	The FOS shall provide the capability for an authorized user to create an association between multiple activities or mission events.	This will allow planners to coordinate observations involving multiple instruments and/or in-situ collection activities.	0
F-PAS-00510		passed	The FOS shall provide the capability for an authorized user to schedule activities between a start and end time based on a Baseline Activity Profiles (BAP).	This will allow planners to use BAPs to schedule activities. Start and end times will be specified so that the BAP is not propagated out to infinity.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-PAS-01000	passed	The FOS shall be able to schedule one activity in less than 4 seconds.		0
<u><i>PAS-2030B</i></u>					
	F-FUI-04000	passed	The FOS shall provide the capability to display a mission schedule for a specified time period on a timeline display.		0
	F-FUI-04010	passed	The FOS shall provide the capability to display TDRSS availability for a specified time period on a timeline display.		0
	F-FUI-04020	passed	The FOS shall provide the capability to display resource usage with 2D line plots or bar graphs on a timeline		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			display.		
F-FUI-04030		passed	The FOS shall provide the capability to scroll by time and resource on the timeline display.		0
F-FUI-04040		passed	The FOS shall provide the capability to zoom in and out by time and resource on the timeline display .		0
F-FUI-04060		passed	The FOS shall provide the capability to display orbital events on the timeline display.		0
F-FUI-04070		passed	The FOS shall provide the capability to display the current date and time on the timeline display.	The FOS shall provide the capability to display the timeline's date and time on the timeline display.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-FUI-04080	passed	The FOS shall provide the capability to display the start and end times of activities and events on the timeline display.		0
	F-FUI-04120	passed	The FOS shall provide the capability to display activities and events on the timeline display.		0
	F-FUI-04140	passed	The FOS shall provide the capability to display detailed information about activities and events selected from the timeline display.		0
	F-FUI-04280	passed	The FOS shall provide the capability to display the limit of orbit data from the FDF on the timeline.		0
			C-471		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-FUI-04290		passed	The FOS shall provide the capability to display the amount of resources allocated to a particular instrument or spacecraft subsystem over time on the timeline.		0
F-FUI-04300		passed	The FOS shall provide the capability to display the total amount of resources available on a particular spacecraft over time on the timeline.	The timeline displays power and data volume usage. Power usage is displayed for scheduling components and is also summarized for the entire spacecraft. Data volume usage is displayed for each SSR buffer.	0
F-PAS-00020		passed	The EOC shall provide the capability for an authorized user to create a long term spacecraft operations plan.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00025		passed	The EOC shall provide the capability for an authorized user to maintain a long term spacecraft operations plan.		0
F-PAS-00030		passed	The EOC shall provide the capability for an authorized user to update a long term spacecraft operations plan.		0
F-PAS-00035		passed	The EOC shall provide the capability for an authorized user to view a long term spacecraft operations plan.		0
F-PAS-00100		passed	The FOS shall provide the capability for an authorized user to view any portion of the mission schedule.		0
F-PAS-00605		passed	The FOS shall provide the capability for		0
			C-473		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an authorized user to predict resource usage and availability based on predefined limits.		
F-PAS-00610		passed	The FOS shall provide the capability for an authorized user to predict the amount of resources required for a set of activities scheduled from a start to an end time in the mission schedule.		0
F-PAS-00820		passed	The FOS shall provide notification when the total allocation of resources exceeds predefined limits .		0
F-PAS-00915		passed	The FOS shall model the spacecraft power subsystem.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00920		passed	The FOS shall model spacecraft data volume.		0
F-PAS-00925		passed	The FOS shall be able to determine when the sun is in the field of view limits of an instrument.		0
F-PAS-01300		passed	The FOS shall provide the capability for an authorized user to generate a graphical timeline plot of a mission schedule.		0
F-PAS-01305		failed	The FOS shall provide the capability for an authorized user to generate a text hardcopy of the scheduling constraint event messages.		08026
F-PAS-01310		partially passed	The FOS shall provide the capability for C-475	This report will be a textual list of	08026 324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			an authorized user to generate a text hardcopy that summarizes a mission schedule.	activity names, scheduled times, parameters, etc.	
<u>PAS-2035B</u>					
	F-DMS-01021	passed	The EOC shall be capable of retrieving the following data files from the FOS archive. a. View period information for backup Ground Stations. b. (deleted) c. Spacecraft Contact Session (SCS) Summary Report.		0
	F-FUI-04050	passed	The FOS shall provide the capability to specify mission schedule access permissions on a timeline display.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00103		failed	The FOS shall provide the capability for an authorized user to restrict user privileges for updating portions of the mission schedule.	Privileges will include read, write, update, and delete and they can be defined for each spacecraft and instrument resource. They can also be defined for specific time periods.	08536
F-PAS-00120		unverified	The FOS shall provide the capability for an authorized user to delete a mission schedule for a specific spacecraft.		08024
F-PAS-00940		passed	The FOS shall be able to model state and mode changes in an instrument.		0
F-PAS-10535		passed	The FOS shall provide the capability to model the modes for the AM-1 spacecraft and instruments as defined in the PDB.		0
			C-477		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-PAS-10605	unverified	The FOS shall provide the capability to determine the number of CERES scans between sunrise and sunset events for a given satellite orbit.		08704
	F-PAS-10623	unverified	The FOS shall provide the capability for an authorized user to generate MISR Local Mode visibility mission events.		08704
	F-PAS-10625	unverified	The FOS shall provide the capability to determine MISR access to local mode targets.	This is intended to be displayed on the timeline as an event.	08704
<u>PAS-2040B</u>	F-FOS-00320	failed	The EOC shall use Ebnet for data communications for the following types	Reference the Interface Control Document between the EOC and Ebnet	08727

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>of data:</p> <p>a. Real-time telemetry data, rate-buffered telemetry data</p> <p>b. Command data</p> <p>c. TDRSS schedule requests and TDRSS schedules</p> <p>d. Data exchange with the FDF, NCC and EDOS</p>	<p>for specifics pertaining to this interface.</p>	
F-FOS-00340		failed	<p>The EOC elements shall submit TDRSS schedule requests and Ground Configuration Message Requests to the NCC.</p>	<p>Reference the Interface Control Document between the NCCDS and GSFC MOCs for specifics pertaining to this interface.</p>	08727
F-FOS-10150		passed	<p>The EOC shall use and support the AM-1 Back-up Ground Station, as a backup of the SN, to obtain return link (X-band) support.</p>	<p>Support includes the ability to schedule x-band contacts on the FOS mission schedule.</p>	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00700		passed	The FOS shall provide the capability for an authorized user to plan spacecraft communication contacts.		0
F-PAS-00705		passed	The FOS shall provide the capability for an authorized user to include direct downlink activities on the mission schedule.		0
F-PAS-01040		passed	The FOS shall be able to schedule TDRSS contact requests for a one week time period in less than 1 hour after all appropriate inputs have been received.		0
F-PAS-01120		passed	The FOS shall include the beginning and ending of scheduled communications contact activities as		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			mission events.		
F-PAS-01125		passed	The FOS shall provide the capability for an authorized user to include orbital events as mission events.		0
F-PAS-10400		failed	The EOC shall provide the capability to schedule communication contacts with TDRSS through the NCC.		08727
F-PAS-10405		failed	The EOC shall provide the capability to receive TDRSS contact times from the NCC.		08727
F-PAS-10436		passed	The EOC shall provide the capability to schedule AM-1 back-up ground station (backup X-band) contacts.	Requirement met by M&O procedures.	0
			C-481		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-10437		unverified	The EOC shall provide the capability to receive AM-1 backup ground station contact times.	Requirement met by M&O procedures.	08787
F-PAS-10445		passed	The EOC shall provide the capability to include AM-1 direct access system events on the AM-1 mission schedule.		0
F-PAS-10447		passed	The FOS shall accept two different types of user-defined parameters for the Communication Contact Scheduler algorithm. The two types are: a. Parameters which specify the desired nature of the schedule. These comprise both discrete values and score profiles		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			b. Parameters which determine the time to run vs. schedule care tradeoff for the algorithm		
F-PAS-10448		passed	The FOS shall provide a Communications Contact Scheduler algorithm which produces an optimized schedule based on the users' parameters.	User specified parameters are listed in F-PAS-10447.	0
F-PAS-10500		failed	The EOC shall provide the capability to model the AM-1 high gain antenna (HGA) pointing angles.		08730
F-PAS-10505		failed	The EOC shall provide the capability to identify activities that cause the AM-1 high gain antenna (HGA) to exceed its		08729
			C-483		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			pointing limits as defined in the database.		
	F-PAS-10510	partially passed	The EOC shall provide the capability to model AM-1 high gain antenna (HGA) slew times.		08731
	F-PAS-10515	passed	The EOC shall provide the capability to identify activities that would require the high gain antenna (HGA) to slew faster than the maximum slew rate as defined in the database.		0
<u>PAS-2050B</u>					
	F-FUI-04100	passed	The FOS shall provide the capability to highlight activities that violate hard and soft constraints on the timeline display.		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-00900		passed	The FOS shall provide the capability to identify any activity in the mission schedule that causes a soft constraint violation.		0
F-PAS-00905		passed	The FOS shall provide the capability to identify any activity in the mission schedule that causes a hard constraint violation.		0
F-PAS-00910		passed	The FOS shall provide the capability to determine the constraints that an activity is violating.		0
F-PAS-00945		passed	The FOS shall be able to determine when an activity violates an 'order' constraint.	An 'order' constraint is one which states that activities must be scheduled in a certain order.	0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-PAS-00950	passed	The FOS shall be able to determine when an activity violates a time spacing constraint.	A time spacing constraint is one which states that two activities must be separated by a minimum time interval.	0
<u>PAS-2110B</u>					
	F-CMS-00305	partially passed	The EOC shall determine an uplink window for each ATC load.		08722
	F-CMS-00405	unverified	The EOC shall provide the capability to determine a break point (or points) for partitioning an ATC load to meet uplink criteria for the spacecraft.	The ATC load partitioning criteria for specific spacecraft are discussed in the mission-specific volume.	09049
	F-CMS-00660	passed	For each request to schedule a load uplink activity, the EOC shall provide the capability to verify that the applicable load is available and ready		0

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			for uplink.		
F-FUI-04130		passed	The FOS shall provide the capability to display the time period that a load is valid for uplink on the timeline display.		0
F-FUI-05700		failed	The FOS shall provide the capability for the user to select or input a load name for generating, scheduling, and deleting a load.		08793
F-PAS-01200		partially passed	The FOS shall provide the capability to accept a user request specifying an uplink window for a load.		08788
F-PAS-01205		failed	The FOS shall verify the existence of a load specified in the uplink request.		08739

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
F-PAS-01210		passed	The FOS shall verify a load is valid over the time period specified in the uplink request.		0
F-PAS-01215		partially passed	The FOS shall use an uplink window request to schedule the uplink of a load.		08788
F-PAS-01220		unverified	The FOS shall provide the capability to restrict user scheduling functionality based on the user's group.	User's group is defined as instrument team member or flight operations team member.	08789
F-PAS-10700		failed	The FOS shall provide the capability to identify valid uplink windows for MISR microprocessor loads.	There will be a constraint in the database that limits these windows to nighttime only.	08721

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
	F-PAS-10705	passed	The FOS shall display the valid uplink window for the MISR microprocessor load		0
<u>PAS-2180B</u>					
	F-CMS-00235	unverified	In support of a late change that occurs after the ATC load for that period has been uplinked, the EOC shall provide the capability to generate a partial ATC load for the late change.	An ATC partial load is defined as an ATC load that starts after the start of the nominal operational period and ends at the same time as the nominal operational period. ATC partial loads will be initiated by and based on DAS updates received from Planning and Scheduling.	09049
	F-CMS-01630	failed	In support of a late change, the EOC shall process all loads associated with the change in less than 1 hour after		08795

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>receiving the updated DAS. The processing of loads associated with the change shall include:</p> <ul style="list-style-type: none">a. Generating an ATC load or ATC partial load based on the expanded DAS activitiesb. Verifying the current contents of RTS buffers referenced by the ATC loadc. Generating a ground script based on the expanded DAS activitiesd. Verifying the existence in the EOC table load catalog of the table loads that have uplink references in the DASe. Verifying the existence in the EOC flight software load catalog of the flight software loads that have uplink		
			C-490		324-CD-005-001/ 412-CD-002-001

FOS Requirement Status Matrix

<u>Test Case ID</u>	<u>Level 4</u>	<u>Status</u>	<u>Text</u>	<u>Clarification</u>	<u>NCR ID</u>
			<p>references in the DAS</p> <p>f. Verifying the existence in the EOC microprocessor load catalog of the microprocessor loads that have uplink references in the DAS</p> <p>g. Verifying the existence in the EOC RTS load catalog of the RTS loads that have uplink references in the DAS</p>		
F-CMS-10240		passed	The EOC shall direct the placement of an ATC late change such that the load may overwrite unexecuted commands in the SCC stored command table.		0
F-PAS-10455		unverified	The FOS shall accept an ASTER activity list that is within the boundaries of the Detailed Activity Schedule and process the list as a Late Change Request.	The list will be processed immediately to provide constraint feedback but will not be applied to the Master Plan without approval from an authorized FOT operator.	08759
			C-491		324-CD-005-001/ 412-CD-002-001