

Table 1 - RbR Modifications

RbR	KEY	seg	req_typt	s_verif_stat	sverif_method	a_verif_stat	ave rif_method	req_ca tegory	text	interperatation	clarification	CC
SMC-1310# B	6280	SDPS	functional <u>operation al</u>	un-verifie d	test	un-verified	test	mission essential	The SMC shall support and maintain the allocation of ground event functions and capabilities to each site and element.	Manually performed with support from office automation tools.		
SMC-1315# B	8391	CSMS	functional <u>operation al</u>	un-verifie d	test	un-verified	test	mission critical	The LSM shall provide each element's scheduling function with access to the system-wide scheduling information, including, at a minimum: a. ECS policies and procedures regarding instrument and ground event scheduling b. Other elements plans and schedules c. Element allocations of ground event functions and capabilities d. Product generation information e. Scheduling directives for testing, maintenance, and emergency situations	Manually performed with support from office automation tools.		96-13
SMC-1320# B	6283	SDPS	functional <u>operation al</u>	un-verifie d	test	un-verified	test	mission essential	The SMC shall support and maintain priorities used in scheduling ground events.	SMC handling of ground events is viewed as manually supported by office automation tools. Priorities supported for resource planning at sites.		
SMC-1325# B	6284	CSMS	functional <u>operation al</u>	un-verifie d	test	un-verified	test	mission critical	The LSM shall provide the operations and management staff at a site or element the capability	Viewed as information sharing		

									to communicate scheduling information to and receive scheduling information from the SMC, including, at a minimum: a. Routine scheduling information b. Request scheduling information c. Schedule conflict alert information d. Emergency scheduling information.			
SMC-1335# B	5161	CSMS	functional <u>operational</u>	un-verified	test		test	mission critical	The LSM shall have the capability to automatically extract, process, and send to the SMC, pertinent scheduling information.	B: Fully automated SMC M&O staff retrieve site active production plans from Data Server		
SMC-1340# B	8442	SDPS	functional <u>operational</u>	un-verified	test	un-verified	test	mission essential	The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element integration, testing, and simulation activities.	Manual exchange of schedules	SMC sends EMAIL directives to DAACs/EOC to coordinate ground events.	96-14
SMC-1345# B	8444	CSMS	functional <u>operational</u>	un-verified	test	un-verified	test	mission critical	The LSM shall perform priority management services to resolve conflicts for ECS resources.		The SMC consults policy & procedures it guides & resolves conflicts.	96-14
SMC-1350# B	6289	CSMS	functional <u>operational</u>	un-verified	test	un-verified	test	mission essential	The SMC shall generate scheduling directives for system level, site-to-site, and element-to-element maintenance activities.	This is viewed as manually supported by office automation tools, e-mail, etc.		
SMC-1620# B	6304	CSMS	functiona interface <u>procedural</u>	un-verified	<u>test de mo</u>	un-verified	<u>test de mo</u>	mission essential	The SMC shall transmit the recommended schedules back to the DAACs for consideration, iterate with the DAACs as required, and develop a coordinated schedule for	Recommendations from SMC are <u>Handled manually, Manual</u> transferred via email. <u>Schedule management is</u>		

			<u>operational</u>						implementation.	federated across the DAACs & SMC.		
SMC-1630# B	4661	CSMS	functional	un-verified	test		test	mission essential	The SMC shall confirm that the coordinated schedule is implemented and monitor product generation and data transfers for compliance with the coordinated schedule.	B: Full capability		
SMC-2110# B	8447	CSMS	functional <u>operational</u>	un-verified	demo	un-verified	demo	mission essential	The SMC shall have the capability to generate managerial and operational directives affecting, at a minimum, an element's: a. Operational status b. Resource allocation c. Upgrade		SMC operations staff may issue directives/requests via EMAIL to coordinate resource mode allocation status at a site.	96-14
SMC-2120# B	4671	CSMS	functional	un-verified	demo		demo	mission essential	The SMC shall make available for automated distribution to authorized users all unlicensed toolkit software, toolkit software upgrades, and toolkit documentation.	B: Fully automated.		
SMC-2210# B	4686	CSMS	functional <u>operational</u>	un-verified	demo		demo	mission essential	The SMC shall coordinate with each site or element in the management of off-site corrective hardware and systems software maintenance.	<u>M&O staff will coordinate operationally.</u>		
SMC-2215# B	4688	CSMS	functional <u>operational</u>	un-verified	analysis		analysis	mission critical	The LSM shall coordinate with the SMC in the management of off-site corrective hardware and systems software maintenance.	<u>M&O staff will coordinate operationally.</u>		
SMC-2400# B	8471	CSMS	operational procedural	un-verified	inspection	un-verified	inspection	mission essential	The SMC shall support the management of training and certification programs for ECS.	<u>This is an operational process with office automation tools.</u>	Performed by M&O staff using phone and access to site's training planning documents.	96-14

SMC-2410# B	4728	CSMS	functional <u>operational</u>	un-verified	demo		demo	mission fulfillment	The SMC shall provide support for the development of schedules for training courses.	B: Same as Rel. A. (Requires M&O staff function as well)		
SMC-2420# B	4733	CSMS	functional <u>operational</u>	un-verified	demo		demo	mission fulfillment	The SMC shall support the development of on-the-job training.	B: Same as Rel. A. (Requires M&O staff function as well)		
SMC-2430# B	4736	CSMS	functional <u>operational</u>	un-verified	demo		demo	mission fulfillment	The SMC shall support the development and use of training materials.	B: Same as Rel. A. (Requires M&O staff function as well)		
SMC-2450# B	4738	CSMS	functional <u>operational</u>	un-verified	demo		demo	mission fulfillment	The SMC shall support the evaluation of the effectiveness of the training programs.	B: Same as Rel. A. (Requires M&O staff function as well)		
SMC-2500# B	4741	CSMS	functional <u>operational</u>	un-verified	test		test	mission essential	The SMC shall establish and maintain a system-wide inventory of all hardware, scientific and system software contained within ECS, including at a minimum: a. Hardware or software identification numbers b. Version numbers and dates c. Manufacturer d. Part number e. Serial number f. Name and locator information for software maintenance g. Location where hardware or software is used	B: Fully automated		
SMC-2600# B	4781	CSMS	security <u>operational</u>	un-verified	inspection		inspection	mission fulfillment	The SMC shall support, control, and maintain ECS policies and procedures covering the following areas, at a minimum:	B: Full capability		

									<ul style="list-style-type: none"> a. Site or element responsibility and authority b. Resource management c. Fault recovery d. Testing e. Simulation f. Maintenance g. Logistics h. Performance evaluation i. Training j. Quality and product assurance k. Inventory management l. System enhancements m. Finance management n. Administrative actions o. Security 			
SMC-2605# B	8488	CSMS	security_ <u>operational</u>	un-verified	analysis	un-verified	demo	mission fulfillment	<p>The LSM shall support the site and element in implementing ESDIS Project policies and procedures received from the SMC covering the following areas, at a minimum:</p> <ul style="list-style-type: none"> a. Element responsibility and authority b. Resource management c. Fault recovery d. Testing e. Simulation f. Maintenance g. Logistics h. Performance evaluation i. Training j. Quality and product assurance k. Inventory management l. System enhancements m. Finance management n. Administrative actions o. Security 			96-14

SMC-3340# B	4923	CSMS	functional <u>operational</u>	un-verified	analysis		analysis	mission critical	The SMC shall perform quality assurance for the overall ECS performance as well as programmatic areas that include, at a minimum: a. System quality testing, benchmarks, and audits for system enhancement implementations b. System quality checking and audits of products processed and delivered c. Quality testing and audits of site and element resource performance.	B: Full capability ECS staff conducts testing with the use of various performance management tools and benchmarks.		
SMC-3345# B	8496	SDPS	functional <u>operational</u>	un-verified	analysis	un-verified	demo analysis	mission critical	The LSM shall perform quality assurance for its site/element's performance as well as programmatic areas that includes, at a minimum: a. Quality testing, benchmarks and audits for element enhancement implementations b. Quality checking and audits of products processed and delivered c. Quality testing and audits of element resource performance,	Aaccomplished <u>ECS staff conducts testing</u> with the use of various performance management tools <u>and benchmarks.</u>	PDPS supplies production QA reports.	96-14
SMC-3395# B	9226	CSMS	functional <u>operational</u>	un-verified	test	un-verified	test	mission critical	The LSM shall generate, in response to each limit check threshold, alert indicators of fault or degraded conditions <u>with the appropriate corrective actions.</u>	<u>Corrective action determined by M&O performance analyst using performance/fault management tools.</u>		

SMC-3415# B	4953	CSMS	functional	un-verified	test		test	mission essential	The LSM shall perform short and long-term trend analysis of element performance, including, at a minimum: a. Operational status b. Performance of a particular resource c. Maintenance activities (e.g., number of repairs per item)	B: Full capability		
SMC-3421# B	8510	CSMS	functional <u>operational</u>	un-verified	<u>analysis inspection</u>	un-verified	inspection	mission essential	The SMC shall analyze user feedback information supporting the development of recommended remedial or enhancement actions.	Facilitation of this requirement will be described by M&O in their 611/OP3 document.		96-14
SMC-4305# B	4960	CSMS	functional <u>operational</u>	un-verified	analysis		analysis	mission essential	The LSM shall maintain fault management policies and procedures for its element.			
SMC-4310# B	4962	CSMS	functional <u>operational</u>	un-verified	analysis		analysis	mission essential	The SMC shall perform fault analysis including, at a minimum: a. Isolation b. Location c. Identification d. Characterization	B: Semi-automated or automated <u>M&O staff will analyze the fault data.</u>		
SMC-4311# B	4963	CSMS	functional <u>operational</u>	un-verified	demo		demo	mission essential	The SMC shall have the capability to perform fault analysis to the level of, at a minimum: a. Subsystem b. Equipment	B: Full capability <u>M&O staff will analyze the fault data.</u>		
SMC-5300# B	4970	CSMS	security <u>operational</u>	un-verified	analysis		analysis	mission essential	The SMC shall, in conjunction with sites and elements, establish, support, maintain, and update security policies and procedures to include, at a minimum: a. Physical security b. Password management	B: Full capability - possibly automated.		

									c. Operational security d. Data security e. Privileges f. Network security g. Compromise mitigation			
SMC-5305# B	4971	CSMS	security <u>operational</u>	un-verified	analysis		analysis	mission critical essential	The LSM shall maintain security policies and procedures, including, at a minimum: a. Physical security b. Password management c. Operational security d. Data classifications e. Access/privileges f. Compromise mitigation	B: Full capability ECS staff shall maintain these policy and procedure documents.		
SMC-5320# B	4972	CSMS	security	un-verified	test		test	mission critical	The SMC shall establish, maintain, and authenticate access privileges for ECS scientific users.	Science users are a class of ECS user.		
SMC-5365# B	4986	CSMS	security <u>operational</u>	un-verified	test		test	mission critical	The LSM shall generate recovery actions in response to the detection of compromises.	Actions specified in ESDIS procedures.		
SMC-6300# B	8517	CSMS	functional <u>operational</u>	un-verified	analysis	un-verified	analysis	mission essential	The SMC shall support, maintain, and update accounting and accountability policies and procedures based on ESDIS Project policies and procedures.		Accounting is part of Accountability Management.	96-14
SMC-6330# B	5002	CSMS	functional	un-verified	test		test	mission essential	The SMC shall establish, maintain, and update a data tracking system that, at a minimum: a. Tracks data transport from system input to system output b. Allows the status of all product-production activities to be determined	B: Full capability		

SMC-8300# B	9228	CSMS	functional	un-verified	test	un-verified	test	mission essential	The SMC shall have a generalized report generator with the capability to customize output reports covering, at a minimum, data previously captured in a management DBMS including: a. All or portions of the system b. Variable amounts of time	<u>Time is an accessible attribute with a SQL query.</u>		97-02
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Table 2-Link Additions

<u>RbR</u>	<u>L4</u>
<u>SMC-0330#B</u>	<u>S-PLS-00306</u>
<u>SMC-1300#B</u>	<u>C-MSS-52010</u>
<u>SMC-1300#B</u>	<u>C-MSS-52020</u>
<u>SMC-1300#B</u>	<u>C-MSS-52030</u>
<u>SMC-1315#B</u>	<u>C-MSS-52010</u>
<u>SMC-1315#B</u>	<u>C-MSS-52020</u>
<u>SMC-1315#B</u>	<u>C-MSS-52030</u>
<u>SMC-1330#B</u>	<u>S-DSS-00844</u>
<u>SMC-1330#B</u>	<u>S-DSS-30255</u>
<u>SMC-1330#B</u>	<u>C-MSS-75045</u>
<u>SMC-1330#B</u>	<u>C-MSS-77040</u>
<u>SMC-1330#B</u>	<u>C-MSS-77050</u>
<u>SMC-1330#B</u>	<u>C-MSS-77060</u>
<u>SMC-1330#B</u>	<u>S-DSS-30256</u>
<u>SMC-1330#B</u>	<u>S-DSS-30350</u>
<u>SMC-1335#B</u>	<u>S-PLS-00654</u>
<u>SMC-1335#B</u>	<u>S-PLS-00715</u>
<u>SMC-1630#B</u>	<u>C-MSS-92100</u>
<u>SMC-1630#B</u>	<u>C-MSS-92120</u>
<u>SMC-2100#B</u>	<u>S-PLS-00306</u>
<u>SMC-2100#B</u>	<u>S-PLS-00375</u>
<u>SMC-2100#B</u>	<u>S-PLS-00380</u>
<u>SMC-2100#B</u>	<u>S-PLS-00385</u>
<u>SMC-2105#B</u>	<u>S-PLS-00306</u>
<u>SMC-2105#B</u>	<u>S-PLS-00375</u>
<u>SMC-2105#B</u>	<u>S-PLS-00380</u>

<u>SMC-2105#B</u>	<u>S-PLS-00385</u>
<u>SMC-2120#B</u>	<u>C-MSS-42250</u>
<u>SMC-2310#B</u>	<u>C-MSS-45280</u>
<u>SMC-2310#B</u>	<u>C-MSS-45290</u>
<u>SMC-2310#B</u>	<u>C-MSS-45300</u>
<u>SMC-2310#B</u>	<u>C-MSS-45310</u>
<u>SMC-2310#B</u>	<u>C-MSS-45320</u>
<u>SMC-2335#B</u>	<u>C-MSS-45280</u>
<u>SMC-2335#B</u>	<u>C-MSS-45290</u>
<u>SMC-2335#B</u>	<u>C-MSS-45300</u>
<u>SMC-2335#B</u>	<u>C-MSS-45310</u>
<u>SMC-2335#B</u>	<u>C-MSS-45320</u>
<u>SMC-2500#B</u>	<u>C-MSS-87500</u>
<u>SMC-2500#B</u>	<u>C-MSS-87510</u>
<u>SMC-2500#B</u>	<u>C-MSS-87520</u>
<u>SMC-2500#B</u>	<u>C-MSS-87530</u>
<u>SMC-2500#B</u>	<u>C-MSS-87540</u>
<u>SMC-2500#B</u>	<u>C-MSS-87550</u>
<u>SMC-2500#B</u>	<u>C-MSS-87580</u>
<u>SMC-2500#B</u>	<u>C-MSS-87590</u>
<u>SMC-2500#B</u>	<u>C-MSS-87600</u>
<u>SMC-2500#B</u>	<u>C-MSS-87610</u>
<u>SMC-2500#B</u>	<u>C-MSS-87630</u>
<u>SMC-3385#B</u>	<u>C-MSS-52010</u>
<u>SMC-3385#B</u>	<u>C-MSS-52020</u>
<u>SMC-3385#B</u>	<u>C-MSS-52030</u>
<u>SMC-3390#B</u>	<u>C-MSS-60400</u>
<u>SMC-3415#B</u>	<u>C-MSS-50030</u>

<u>SMC-4320#B</u>	<u>C-MSS-60080</u>
<u>SMC-4320#B</u>	<u>C-MSS-60140</u>
<u>SMC-4325#B</u>	<u>C-MSS-60080</u>
<u>SMC-4325#B</u>	<u>C-MSS-60140</u>
<u>SMC-5305#B</u>	<u>C-MSS-52010</u>
<u>SMC-5305#B</u>	<u>C-MSS-52020</u>
<u>SMC-5305#B</u>	<u>C-MSS-52030</u>
<u>SMC-5320#B</u>	<u>C-MSS-75001</u>
<u>SMC-5345#B</u>	<u>C-MSS-70700</u>
<u>SMC-6300#B</u>	<u>C-MSS-52010</u>
<u>SMC-6300#B</u>	<u>C-MSS-52020</u>
<u>SMC-6300#B</u>	<u>C-MSS-52030</u>
<u>SMC-6315#B</u>	<u>C-MSS-70300</u>
<u>SMC-6315#B</u>	<u>C-MSS-70410</u>
<u>SMC-6330#B</u>	<u>S-INS-00040</u>
<u>SMC-6330#B</u>	<u>C-MSS-92510</u>
<u>SMC-6330#B</u>	<u>S-INS-00060</u>
<u>SMC-6330#B</u>	<u>S-INS-00085</u>
<u>SMC-6330#B</u>	<u>S-INS-00170</u>
<u>SMC-6330#B</u>	<u>S-INS-00175</u>
<u>SMC-6330#B</u>	<u>S-INS-00310</u>
<u>SMC-6330#B</u>	<u>S-INS-00340</u>
<u>SMC-6330#B</u>	<u>S-INS-00345</u>
<u>SMC-6330#B</u>	<u>S-INS-60190</u>
<u>SMC-6335#B</u>	<u>S-INS-00040</u>
<u>SMC-6335#B</u>	<u>S-INS-00060</u>
<u>SMC-6335#B</u>	<u>S-INS-00085</u>
<u>SMC-6335#B</u>	<u>S-INS-00170</u>

<u>SMC-6335#B</u>	<u>S-INS-00175</u>
<u>SMC-6335#B</u>	<u>S-INS-00310</u>
<u>SMC-6335#B</u>	<u>S-INS-00340</u>
<u>SMC-6335#B</u>	<u>S-INS-00345</u>
<u>SMC-6335#B</u>	<u>S-INS-60190</u>
<u>SMC-6345#B</u>	<u>C-MSS-45050</u>
<u>SMC-6345#B</u>	<u>C-MSS-45060</u>
<u>SMC-6345#B</u>	<u>C-MSS-45070</u>
<u>SMC-6385#B</u>	<u>C-MSS-79700</u>
<u>SMC-6385#B</u>	<u>C-MSS-79760</u>
<u>SMC-6385#B</u>	<u>C-MSS-79780</u>
<u>SMC-6385#B</u>	<u>C-MSS-79790</u>
<u>SMC-6385#B</u>	<u>C-MSS-79860</u>
<u>SMC-6385#B</u>	<u>C-MSS-79880</u>
<u>SMC-6385#B</u>	<u>C-MSS-79890</u>
<u>SMC-6385#B</u>	<u>C-MSS-79915</u>
<u>SMC-6385#B</u>	<u>C-MSS-79930</u>
<u>SMC-8800#B</u>	<u>S-DSS-30350</u>

Table 3-Link Deletions

RbR	L4
<u>SMC-1335#B</u>	<u>C-MSS-91010</u>