

27 August 1995

AM-1_IRD_FPRS_LINKS_CORRECTIONS

IRD	IRD_segment	IRD_text	IRD_clarification	FPRS	L3_type	L3_segment	L3_text	L3_clarification
AM1-0020	FOS CSMS	The EOC shall have the capability to send (via EDOS/Ecom and the SN, GN, DSN, or WOTS) and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106).		EOSD0010	operational	FOS	ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality.	
				EOSD0025	operational	CSMS	ECS shall use Ecom for flight operations data transfers.	

				EOSD0015	operational	FOS/SDPS	ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nas com interface, as backup of the SN, to obtain forward and return link data communications.	
				EOC-4010	functional	FOS	For each spacecraft and its instruments, the EOC shall prepare uplink data that conform to the CCSDS Telecommand Standard.	

				EOC-4008	functional	FOS	The EOC shall be capable of transmitting commands via Ecom.	
				EOC-4005	functional	FOS	The EOC shall be capable of transmitting commands to the EOS spacecraft via EDOS using the:a.SNb.GN, DSN, WOTS (for contingency or emergency operations)	

				EOSD15 02	interfa ce	FOS/SD PS	ECS elements shall use Ecom for data communications for the following types of data: a. Production data sets (Level 0 data) b. Quick-look production data sets c. Real-time data (for health and safety) d. Command data e. Data requested from back-up archive f. TDRSS schedule requests g. Data exchange with the FDF	
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AM1-0030	FOS CSMS	The EOC shall have the capability to send (via EDOS/Ecom and the SN, GN, DSN, or WOTS) and the AM-1 spacecraft shall have the capability to receive instrument commands in CCSDS CLTUs (as defined in AM-1 ICD 106).		EOSD0010	operational	FOS	ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality.	
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				EOSD0015	operational	FOS/SDPS	ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nascom interface, as backup of the SN, to obtain forward and return link data communications.	
				EOC-4010	functional	FOS	For each spacecraft and its instruments, the EOC shall prepare uplink data that conform to the CCSDS Telecommand Standard.	

				EOC-4008	functional	FOS	The EOC shall be capable of transmitting commands via Ecom.	
				EOC-4005	functional	FOS	The EOC shall be capable of transmitting commands to the EOS spacecraft via EDOS using the:a.SNb.GN, DSN, WOTS (for contingency or emergency operations)	

				EOSD1502	interface	FOS/SDPS	ECS elements shall use Ecom for data communications for the following types of data: a. Production data sets (Level 0 data) b. Quick-look production data sets c. Real-time data (for health and safety) d. Command data e. Data requested from back-up archive f. TDRSS schedule requests g. Data exchange with the FDF	
				EOSD0025	operational	CSMS	ECS shall use Ecom for flight operations data transfers.	

AM1-0050	FOS CSMS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 spacecraft and instrument housekeeping telemetry packets (as defined in AM-1 ICD 106) via EDOS/Ecom and the SN, GN, DSN, or WOTS interfaces.		EOSD0010	operational	FOS	ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality.	
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				<u>EOSD00 20</u>	<u>operati onal</u>	<u>FOS/SD PS/CS MS</u>	<u>ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality.</u>	
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				EOSD15 02	interfa ce	FOS/SD PS	ECS elements shall use Ecom for data communications for the following types of data: a. Production data sets (Level 0 data) b. Quick-look production data sets c. Real-time data (for health and safety) d. Command data e. Data requested from back-up archive f. TDRSS schedule requests g. Data exchange with the FDF	
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				EOC-5010	functional	FOS	The EOC shall receive from EDOS the following telemetry data types in CCSDS packets containing: a. Real-time spacecraft and instrument housekeeping data including instrument and spacecraft housekeeping b. Spacecraft recorder housekeeping data c. SCC memory dump data	
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				EOSD00 15	operati onal	FOS/SD PS	ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nas com interface, as backup of the SN, to obtain forward and return link data communications.	
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				ICC-4020	functional	FOS	The ICC shall provide the capability to accept CCSDS packets from EDOS containing at a minimum the following data types: a.Spacecraft and instrument housekeeping data. b.Instrument engineering data or instrument science data within which instrument engineering data is embedded. c.Instrument memory dump data	
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				EOSD1605	interface	FOS/CSMS	ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft.	
				EOSD0025	operational	CSMS	ECS shall use Ecom for flight operations data transfers.	

AM1-0070	FOS CSMS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) recorded AM-1 spacecraft and instrument housekeeping telemetry packets (as defined in AM-1 ICD 106) via EDOS/Ecom and the SN, GN, DSN, or WOTS interfaces.		EOSD0010	operational	FOS	ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality.	
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				EOC-5010	functional	FOS	The EOC shall receive from EDOS the following telemetry data types in CCSDS packets containing: a. Real-time spacecraft and instrument housekeeping data including instrument and spacecraft housekeeping b. Spacecraft recorder housekeeping data c. SCC memory dump data	
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				EOSD00 15	operati onal	FOS/SD PS	ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nas com interface, as backup of the SN, to obtain forward and return link data communications.	
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				EOSD15 02	interfa ce	FOS/SD PS	ECS elements shall use Ecom for data communications for the following types of data: a. Production data sets (Level 0 data) b. Quick-look production data sets c. Real-time data (for health and safety) d. Command data e. Data requested from back-up archive f. TDRSS schedule requests g. Data exchange with the FDF	
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				EOC-4020	functional	FOS	The EOC shall merge the real-time commands supplied by the spacecraft operator, command groups, and the spacecraft and instrument memory loads into one uplink stream.	
				EOSD1605	interface	FOS/CSMS	ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft.	

				EOSD00 20	operati onal	FOS/SD PS/CS MS	ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality.	
				EOSD00 25	operati onal	CSMS	ECS shall use Ecom for flight operations data transfers.	

AM1-0090	FOS CSMS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via EDOS/Ecom and the SN, GN, DSN, or WOTS interfaces.		EOSD0010	operational	FOS	ECS shall use and support the Space Network (SN), via the EDOS/Ecom interface, to obtain the forward and return link data communications needed to achieve full end-to-end ECS functionality.	
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				EOC-5010	functional	FOS	The EOC shall receive from EDOS the following telemetry data types in CCSDS packets containing: a. Real-time spacecraft and instrument housekeeping data including instrument and spacecraft housekeeping b. Spacecraft recorder housekeeping data c. SCC memory dump data	
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				EOSD00 15	operati onal	FOS/SD PS	ECS shall use and support the Deep Space Network (DSN), the Ground Network (GN), and the Wallops Orbital Tracking Station (WOTS), via the EDOS/Ecom/Nas com interface, as backup of the SN, to obtain forward and return link data communications.	
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				ICC-4020	functional	FOS	The ICC shall provide the capability to accept CCSDS packets from EDOS containing at a minimum the following data types: a.Spacecraft and instrument housekeeping data. b.Instrument engineering data or instrument science data within which instrument engineering data is embedded. c.Instrument memory dump data	
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				EOSD16 05	interfa ce	FOS/CS MS	ECS elements shall receive from EDOS telemetry data, including housekeeping, engineering, ancillary, and science data from EOS instruments and spacecraft.	
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				EOSD1502	interface	FOS/SDPS	ECS elements shall use Ecom for data communications for the following types of data: a. Production data sets (Level 0 data) b. Quick-look production data sets c. Real-time data (for health and safety) d. Command data e. Data requested from back-up archive f. TDRSS schedule requests g. Data exchange with the FDF	
				EOSD0025	operational	CSMS	ECS shall use Ecom for flight operations data transfers.	

				EOSD00 20	operati onal	FOS/SD PS/CS MS	ECS shall use and support the EDOS/Ecom interface to obtain the data capture, data archival, and data distribution services needed to achieve full end-to-end ECS functionality.	
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AM1-0120	FOS CSMS	The EOC shall have the capability to send and the AM-1 spacecraft shall have the capability to receive spacecraft commands in CCSDS CLTUs (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.		EOSD0760	functional	FOS/SD PS/CS MS	Each ECS element shall support end-to-end EOS system testing and fault isolation.	
				EOC-8285	functional	FOS	The EOC shall support instrument integration activities associated with the spacecraft prior to launch.	

				EOC-8320	functional	FOS	The EOC shall support spacecraft and instrument tests at the integration site and at the launch site.	
				EOSD0800	functional	FOS/SDPS/CSMS	Each ECS element 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.	

AM1-0125	FOS CSMS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) real time AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.		EOSD0760	functional	FOS/SD PS/CS MS	Each ECS element shall support end-to-end EOS system testing and fault isolation.	
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				EOC-8285	functional	FOS	The EOC shall support instrument integration activities associated with the spacecraft prior to launch.	
				EOC-8320	functional	FOS	The EOC shall support spacecraft and instrument tests at the integration site and at the launch site.	

				EOSD0800	functional	FOS/SD PS/CS MS	Each ECS element 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.	
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AM1-0130	FOS CSMS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) recorded AM-1 housekeeping telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.		EOSD0760	functional	FOS/SD PS/CS MS	Each ECS element shall support end-to-end EOS system testing and fault isolation.	
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				EOSD0800	functional	FOS/SD PS/CS MS	Each ECS element 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.	
				EOC-8320	functional	FOS	The EOC shall support spacecraft and instrument tests at the integration site and at the launch site.	

				EOC-8285	functional	FOS	The EOC shall support instrument integration activities associated with the spacecraft prior to launch.	
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AM1-0135	FOS CSMS	The AM-1 spacecraft shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets and CLCWs) AM-1 SCC, CTIU, and instrument microprocessor memory dump telemetry packets (as defined in AM-1 ICD 106) via pre-launch test configurations which include the AM-1 Spacecraft Checkout Station, Ecom, and EDOS or ETS.		EOSD0760	functional	FOS/SD PS/CS MS	Each ECS element shall support end-to-end EOS system testing and fault isolation.	
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				EOC-8320	functional	FOS	The EOC shall support spacecraft and instrument tests at the integration site and at the launch site.	
				EOC-8285	functional	FOS	The EOC shall support instrument integration activities associated with the spacecraft prior to launch.	

				EOSD08 00	functional	FOS/SD PS/CS MS	Each ECS element 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.	
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AM1-0140	FOS CSMS	The SCS shall have the capability to send (in CADU format) and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) AM-1 spacecraft telemetry data (as defined in AM-1 ICD-106) during spacecraft launch via launch configurations which include EDOS and Ecom.		EOC-5020	functional	FOS	The EOC shall receive and process spacecraft telemetry data during spacecraft launch.	
				EOC-8320	functional	FOS	The EOC shall support spacecraft and instrument tests at the integration site and at the launch site.	

AM1-0150	FOS	The EOC shall have the capability to send and the SSIM shall have the capability to receive AM-1 spacecraft and instrument commands in CCSDS CLTU format (as defined in AM-1 ICD-106).		EOSD1690	interfa ce	FOS	ECS elements shall provide commands to the EOS spacecraft simulators.	
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AM1-0160	FOS CSMS	The SSIM shall have the capability to send and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) simulated real time AM-1 spacecraft and instrument housekeeping telemetry packets and Command Link Control Words (as defined in AM-1 ICD-106).		EOSD1680	interfa ce	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
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AM1-0170	FOS CSMS	The SSIM shall have the capability to send and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) simulated recorded AM-1 spacecraft and instrument housekeeping telemetry packets (as defined in AM-1 ICD-106).		EOSD1680	interfa ce	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
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AM1-0200	FOS CSMS	The SSIM shall have the capability to send and the EOC shall have the capability to receive (in EDUs containing CCSDS telemetry packets) simulated AM-1 SCC, CTIU, and instrument microprocessor memory dump telemetry (as defined in AM-1 ICD-106).		EOSD1680	interfa ce	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
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AM1-0215	FOS CSMS	The AM-1 spacecraft vendor shall have the capability to provide and the EOC shall have the capability to receive, AM-1 project data base information containing both spacecraft and instrument parameters.		EOC-7025	functional	FOS	The EOC shall provide the capabilities to generate and modify the PDB.	
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AM1-0220	CSMS	The ECS shall have the capability to provide and the MISR, MOPITT, MODIS, and CERES PIs/TLs shall have the capability to receive IST toolkit software, IST toolkit software upgrades, and IST toolkit documentation.		SMC-2120	functional	CSMS	The SMC shall make available for automated distribution to authorized users all unlicensed toolkit software, toolkit software upgrades, and toolkit documentation.	
				SMC-2130	functional	CSMS	The SMC shall administer and distribute licenses for deployed commercial-software funded by the ECS contract, including commercial software as authorized for specific users.	

AM1-0230	FOS	The IST toolkit shall have the capability to accept data from a science computing facility that supports PI/TL operations, which include the following data (at a minimum):a.instrument microprocessor memory loads.b.changes in the instrument parameters		ICC-7060	functional	FOS	The IST shall have the capability to accept data from the Science Computing Facility (SCF), which include at a minimum the following data:a.Microprocessor memory loadsb.Changes in the instrument parameters	
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AM1-0240	FOS	The IST toolkit shall have the capability to provide data to a science computing facility that supports PI/TL instrument operations, which include the following data (at a minimum):a. Microprocessor memory dumpsb. Instrument analysis results		ICC-7070	functional	FOS	The IST shall have the capability to provide data to the SCF, which include at a minimum the following data:a. Microprocessor memory dumpsb. Instrument analysis results	
AM1-0270	FOS CSMS	The AM-1 SDVF shall have the capability to send and ECS shall have the capability to receive AM-1 SCC flight software updates.		EOC-3015	functional	FOS	The EOC shall accept SCC flight software updates from the SDVF.	

				EOSD1680	interface	FOS/SDPS/CSMS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
AM1-0280	FOS CSMS	ECS shall have the capability to send and the AM-1 SDVF shall have the capability to receive AM-1 SCC flight software dumps.		EOC-3015	functional	FOS	The EOC shall accept SCC flight software updates from the SDVF.	

				EOSD1680	interface	FOS/SDPS/CSMS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
AM1-0340	FOS	The AM-1 project shall have the capability to provide and ECS shall have the capability to accept and store AM-1 spacecraft and instrument hardware and software technical documentation.		EOC-7150	functional	FOS	The EOC shall store the technical documentation of the spacecraft hardware and software from before launch through the end of spacecraft operation.	

AM1-1000	FOS CSMS	ECS functions shall have an operational availability (computed as defined in the Functional and Performance Requirements Specification for the ECS) of 0.96 at a minimum and a mean down time (MDT) of four (4) hours or less, unless otherwise specified.		EOSD3700	RMA	FOS/SD PS/CS MS	ECS functions shall have an 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.	
AM1-1010	FOS	The ECS FOS shall have an operational availability of 0.9998 at a minimum and a MDT of one (1) minute or less for critical real time functions that support: a.Launc hb.Early orbit checkout c.Dispo sald.Orbit		EOSD3800	RMA	FOS	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	

AM1-1020	FOS	The ECS FOS shall have an operational availability of 0.99925 at a minimum and a MDT of five (5) minutes or less for non-critical real time functions.		EOSD3810	RMA	FOS	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.	
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AM1-1050	FOS CSMS	The EOC shall support several uplink rates to the spacecraft, which include at a minimum the following: a. 10 kilobits per second (kbps) (SSA uplink) b. 1 kbps (S-band MA uplink) c. 125 bits per second (bps) (SSA uplink during contingency operations) d. 2 kbps (emergency operations via S-band DSN link)		EOC-4200	functional	FOS	The EOC shall support several uplink rates to the spacecraft, which include at a minimum the following: a. 10 kilobits per second (kbps) (SSA uplink) b. 1 kbps (SMA uplink) c. 125 bits per second (bps) (SSA uplink during contingency operations) d. 2 kbps (emergency operations via S-band DSN link)	
AM1-1060	FOS CSMS	The EOC shall be capable of simultaneously receiving all AM-1 telemetry data types.		EOC-5015	functional	FOS	The EOC shall be capable of simultaneously receiving all EOS telemetry data types.	

				ICC-4040	functional	FOS	The ICC shall be capable of simultaneously receiving real-time and spacecraft recorder data for all housekeeping and instrument engineering data types.	
AM1-1070	FOS CSMS	The EOC shall provide the capability to receive and process real-time data received as two 16 kbps data streams.		EOC-5220	functional	FOS	The EOC shall be able to process real-time data at rates up to 50 kbps per spacecraft.	
AM1-1080	FOS CSMS	The EOC shall provide the capability to receive and record spacecraft recorder data at rates up to 1.544 Mbps.		EOC-5230	functional	FOS	The EOC shall be able to receive and record spacecraft recorder data at rates up to 1.544 Mbps.	

AM1-1090	FOS CSMS	The EOC shall be capable of providing CLTUs to the SSIM at the following data rates: a. 125 bps b. 1 kbps c. 2 kbps d. 10 kbps		EOC-4200	functional	FOS	The EOC shall support several uplink rates to the spacecraft, which include at a minimum the following: a. 10 kilobits per second (kbps) (SSA uplink) b. 1 kbps (SMA uplink) c. 125 bits per second (bps) (SSA uplink during contingency operations) d. 2 kbps (emergency operations via S-band DSN link)	
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AM1-1100	FOS CSMS	The EOC shall be capable of receiving two housekeeping telemetry packet streams of 16 kbps from the SSIM.		EOSD1680	interface	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
AM1-1110	FOS CSMS	The EOC shall be capable of receiving a health and safety telemetry packet stream from the SSIM at 1 kbps.		EOSD1680	interface	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	

AM1-1120	FOS CSMS	The EOC shall be capable of receiving a diagnostic telemetry/memory dump packet stream from the SSIM at 16 kbps.		EOSD1680	interface	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	
AM1-1130	FOS CSMS	The EOC shall be capable of receiving a spacecraft recorder housekeeping telemetry packet stream from the SSIM at 256 kbps or 512 kbps.		EOSD1680	interface	FOS/SD PS/CS MS	ECS elements shall receive simulated spacecraft and instrument telemetry from the EOS spacecraft simulators and shall receive flight software loads from the Software and Validation Facility (SDVF).	

AM1-1150	FOS CSMS	ECS shall contribute a loop delay of not greater than 2.5 seconds of the total system delay of five (5) seconds for emergency real-time commands, not including the time needed for command execution. The loop delay is measured from the originator to the spacecraft/instrument and back and only applies when a Tracking and Data Relay Satellite System (TDRSS) link is available for contact to the spacecraft.		EOSD1000	performance	FOS/SD PS/CS MS	ECS elements shall contribute a loop delay of not greater than 2.5 seconds of the total system delay of five (5) seconds for emergency real-time commands, not including the time needed for command execution. The loop delay is measured from the originator to the spacecraft/instrument and back and only applies when a Tracking and Data Relay Satellite System (TDRSS) link is available for contact to the spacecraft.	
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