

DELTA

STS- 117 CoFR ENDORSEMENT

ELEMENT	SERIAL NUMBER	PAYLOAD
ORBITER	OV-104	ISS 13A, RAMBO, MAUI
ET	ET-124	
RSRM	RSRM-96	
SSME	2059, 2052, 2057	
SRB	BI-129	

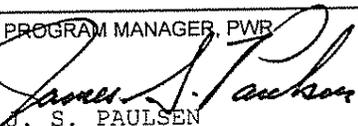
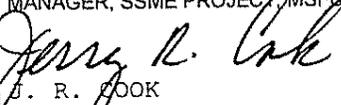
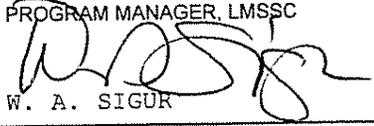
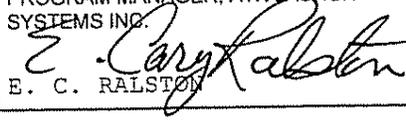
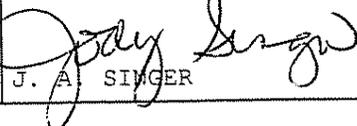
Projects having exceptions to this CoFR document are as follows (see Exception Log for details):

- 001 SSME
- 002 SSME
- 003 GFE

DELTA STS- 117 CoFR ENDORSEMENT

The Flight Preparation Process Plans documented in NSTS 08117, Requirements and Procedures for Certification of Flight Readiness, have been satisfied. Required products and other responsibilities for each project (NSTS 08117, Section 8) have been or will be produced or completed.

- a. Certified flight hardware elements have been delivered to the SPOC at the Kennedy Space Center.
- b. Required hardware element processing specifications and requirements have been delivered to the SPOC.
- c. All identified anomalous events that occurred after delivery of hardware for launch processing/ assembly/testing have been resolved.
- d. For anomalous conditions detected during manufacturing, testing, or post-mission tear down and analysis, notification to the Space Shuttle Program has been made, and corrective action, if any, identified.
- e. The as-built flight element configuration satisfies the released requirements and engineering, based on data compiled and reviewed by SPOC.
- f. For the Space Shuttle Main Engine Project: Certified main engine controller software has been delivered for this mission.

CONTRACTOR			NASA	
SSME (8.5.3.1, 8.5.3.2, Apx. C)	PROGRAM MANAGER, PWR  J. S. PAULSEN	DATE 5/31/07	MANAGER, SSME PROJECT, MSFC  J. R. COOK	DATE 5/31/07
ET (8.5.4.1, 8.5.4.2, Apx. D)	PROGRAM MANAGER, LMSSC  W. A. SIGUR	DATE 5/31/07	MANAGER, ET PROJECT, MSFC  J. S. CHAPMAN	DATE 5/31/07
RSRM (8.5.5.1, 8.5.5.2, Apx. E)	PROGRAM MANAGER, ATK LAUNCH SYSTEMS INC.  E. C. RALSTON	DATE 5/31/07	MANAGER, RSRM PROJECT, MSFC  J. A. SINGER	DATE 5/31/07

DELTA STS- 117 CoFR ENDORSEMENT

The Flight Preparation Process Plans documented in NSTS 08117, Requirements and Procedures for Certification of Flight Readiness, have been satisfied. Required products and other responsibilities for each organization (NSTS 08117, Section 8) have been or will be produced or completed.

- a. For Payload Processing: Flight and ground requirements, payload logistics, and configuration requirements provided by the flight projects, have been maintained, performed, or are planned to be performed per approved TOPs.
- b. For EVA project: Audit, insight, and surveillance of EVA Systems Contract activities have been completed or are planned for completion, and all discrepancies have been resolved. Oversight functions have been conducted in conjunction with Hamilton Sundstrand.

NASA

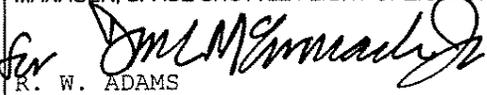
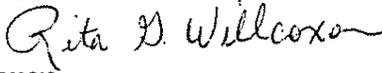
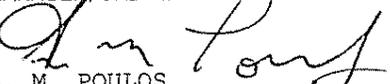
FLIGHT CREW OPERATIONS (8.5.10.1, 8.5.10.2, Apx. K)	DIRECTOR, FLIGHT CREW OPERATIONS <i>Elin Ochoa</i> E. OCHOA		DATE 5/31/07
FERRY OPERATIONS (8.5.15.1, 8.5.15.2, Apx. P)	FERRY OPERATIONS MANAGER <i>D. L. McCormack</i> D. L. McCORMACK		DATE 5/31/07
SPACE AND LIFE SCIENCES (8.5.14.1, 8.5.14.2, Apx. O)	DIRECTOR, SPACE AND LIFE SCIENCES <i>J. R. Davis</i> J. R. DAVIS		DATE 5/31/07
	CONTRACTOR		NASA
PAYLOAD PROCESSING (8.5.9.1, 8.5.9.2, Apx. J)	PROGRAM MANAGER, CAPPS BOEING, KSC <i>M. G. Jäger</i> M. G. JÄGER	DATE 5/30/07	DIRECTOR OF ISS/PAYLOAD PROCESSING <i>R. R. Romanella</i> R. R. ROMANELLA
EVA (8.5.2.1, 8.5.2.2, Apx. B)	PROGRAM DIRECTOR, HAMILTON SUNDSTRAND <i>R. L. Poisson</i> R. L. POISSON	DATE 5/30/07	MANAGER, EVA OFFICE <i>S. B. Doering</i> S. B. DOERING

DELTA STS- 117 CoFR ENDORSEMENT

The Flight Preparation Process Plans documented in NSTS 08117, Requirements and Procedures for Certification of Flight Readiness, have been satisfied. Required products and other responsibilities (shared or independent) for each organization (NSTS 08117, Section 8) have been or will be produced or completed.

- a. The following NASA organizations have completed or plan to complete audit, insight, and surveillance of contractor activities, and have resolved all discrepancies.

NASA

FLIGHT OPERATIONS AND INTEGRATION (8.5.13.1, 8.5.13.2, Apx. N)	MANAGER, SPACE SHUTTLE FLIGHT OPERATIONS AND INTEGRATION	DATE
	<i>for</i>  R. W. ADAMS	5/31/07
KSC INTEGRATION (8.5.11.1, 8.5.11.2, Apx. L)	MANAGER, SPACE SHUTTLE KSC INTEGRATION G. N. KATNIK 	DATE 5/30/07
SHUTTLE PROCESSING (8.5.8.1, 8.5.8.2, Apx. H)	DIRECTOR, SHUTTLE PROCESSING  R. G. WILLCOXON	DATE 5/31/07
MISSION OPERATIONS (8.5.7.1, 8.5.7.2, Apx. G)	DIRECTOR, MISSION OPERATIONS <i>for</i>  G. A. FLYNT	DATE 5/31/07
SRB (8.5.6.1, 8.5.6.2, Apx. F)	MANAGER, SRB PROJECT, MSFC <i>for</i>  T. P. LAMPTON	DATE 5/31/07
SSP S&MA (8.5.16.1, 8.5.16.2, Apx. Q)	MANAGER, SSP S&MA  W. S. MCARTHUR	DATE 5/31/07
SYSTEMS ENGINEERING AND INTEGRATION (6.3, 8.5.12.1, 8.5.12.2, Apx. M)	MANAGER, SPACE SHUTTLE SYSTEMS ENGINEERING AND INTEGRATION  D. S. NOAH	DATE 5/31/07
ORBITER PROJECT (8.5.1.1, 8.5.1.2, Apx. A)	MANAGER, ORBITER PROJECT OFFICE  S. M. POULOS	DATE 5/31/07

DELTA STS- 117 CoFR ENDORSEMENT

The Space Shuttle Flight Preparation Process Plans (shared or independent) documented in NSTS 08117, Requirements and Procedures for Certification of Flight Readiness, have been satisfied. Required products and other responsibilities (shared or independent) for the SPOC (NSTS 08117, Section 8) have been or will be produced or completed.

- a. All anomalous conditions have been identified and resolved with the NASA.
- b. The SSV has been processed in accordance with requirements and policies baselined by the SSP.

UNITED SPACE ALLIANCE

SPOC SQ&MA CONCURRENCE	VICE PRESIDENT, SAFETY, QUALITY AND MISSION ASSURANCE, SPOC <i>Craig L. Lovell</i> C. L. LOVELL	DATE 5/21/07
SPOC (8.5.17.1, 8.5.17.2, Apx. R)	SSP, PROGRAM MANAGER, SPOC <i>H. L. DeCastro</i> H. L. DeCASTRO	DATE 5/31/07

Boeing endorses that the requirements for CoFR documented in SSP 50108 and the Boeing Flight CoFR Implementation Plan have been satisfied in accordance with the Boeing specific responsibilities for this flight. Any issues that have arisen since the Stage Operations Readiness Review (SORR) have been resolved or have been presented at the Flight Readiness Review. This certification is subject to clause H.43 of NAS 15-10000 (for ISS Missions).

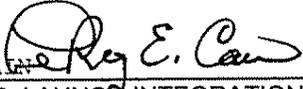
BOEING

ISS PRIME CONCURRENCE	VICE PRESIDENT AND PROGRAM MANAGER, ISS, BOEING <i>J. L. Bryant</i> J. L. BRYANT	DATE 31 May 07
------------------------------	--	-----------------------

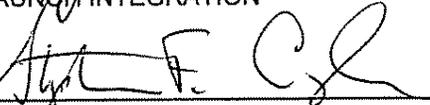
DELTA STS- 117 CoFR ENDORSEMENT

NASA SSP READINESS

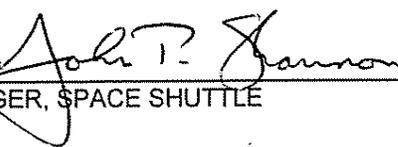
The preparation of all Space Shuttle Program and Project organizations for this mission has been reviewed. All required processes, products, and responsibilities are complete or will be completed prior to launch. Deviations, exceptions or waivers have been reviewed and will be dispositioned by the MMT L-2 Day Review for this mission. The Space Shuttle Program is ready to proceed with the conduct of this mission.


L. E. CAIN
MANAGER, LAUNCH INTEGRATION

5-31-2007
DATE


S. F. CASH
DEPUTY MANAGER, SPACE SHUTTLE PROGRAM, MSFC

5/31/07
DATE


J. P. SHANNON
DEPUTY MANAGER, SPACE SHUTTLE PROGRAM, JSC

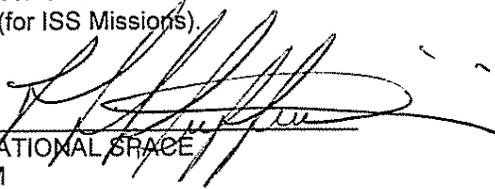
5/31/07
DATE


N. W. HALE
MANAGER, SPACE SHUTTLE PROGRAM

5/31/07
DATE

NASA ISS PROGRAM READINESS

All necessary activities required to support the flight, stage and increment have been accomplished or are planned. All deviations, waivers, and exceptions have been reviewed and satisfactorily dispositioned. The International Space Station Program is ready to proceed with launch and on-orbit operations. Any issues that have arisen since the SORR have been resolved or have been presented at the Flight Readiness Review (for ISS Missions).


M. T. SUFFREDINI
MANAGER, INTERNATIONAL SPACE STATION PROGRAM

5/31/07
DATE

CONCURRENCE

I concur that the Space Shuttle Program is ready to proceed with this mission.


W. C. HILL
ASSISTANT ASSOCIATE ADMINISTRATOR,
SPACE SHUTTLE

5.31.07
DATE

See CoFR Comment Form for additional comments/clarifications.

DELTA STS- 117 CoFR ENDORSEMENT

CONCURRENCE

I concur that the International Space Station Program (for ISS Missions) is ready to proceed with this mission


M. L. UHRAN
ASSISTANT ASSOCIATE ADMINISTRATOR,
INTERNATIONAL SPACE STATION

5/31/07
DATE

See CoFR Comment Form for additional comments/clarifications.

I have conducted a Center Flight Readiness Review for this mission and have determined that the technical products, processes, policies, and technical requirement variances for the Space Shuttle and International Space Station (for ISS missions) systems within the assigned technical responsibility and cognizance of my Center have been satisfactorily dispositioned, and that all associated residual technical risks have been appropriately characterized and accepted by the Programs.

As a member of the FRR Board, and consistent with my responsibility for independent technical authority, and safety and mission assurance, I certify the readiness of the Space Shuttle and International Space Station (for ISS missions) Programs to execute this mission pending satisfactory completion of planned work across all elements.


M. L. COATS
DIRECTOR, JOHNSON SPACE CENTER

5/31/07
DATE

See CoFR Comment Form for additional comments/clarifications.


W. W. PARSONS
DIRECTOR, KENNEDY SPACE CENTER

5-31-07
DATE

See CoFR Comment Form for additional comments/clarifications.


D. A. KING
DIRECTOR, MARSHALL SPACE FLIGHT CENTER

5-31-07
DATE

See CoFR Comment Form for additional comments/clarifications.


R. J. GILBRECH
DIRECTOR, STENNIS SPACE CENTER

5-31-07
DATE

See CoFR Comment Form for additional comments/clarifications.

DELTA STS- 117 CoFR ENDORSEMENT

CONCURRENCE

I have reviewed the Space Shuttle and International Space Station (for ISS missions) crew health and life support systems and concur with the readiness to proceed with this mission.



R. S. WILLIAMS
CHIEF HEALTH AND MEDICAL OFFICER

31 May 2007

DATE

See CoFR Comment Form for additional comments/clarifications.

I have conducted a review for this mission and have determined that the technical products, processes, policies, and technical requirement variances for the Space Shuttle and International Space Station (for ISS missions) systems have been satisfactorily dispositioned, and that all associated residual technical risks have been appropriately characterized and accepted by Engineering and the Programs. I concur with proceeding with this mission.



C. J. SCOLESE
NASA CHIEF ENGINEER

31 May 2007

DATE

See CoFR Comment Form for additional comments/clarifications.

As a member of the FRR Board, I concur that, pending completion of planned work, the Prime Mission is ready to execute this mission (for non-ISS missions).

N/A
ASSOCIATE ADMINISTRATOR FOR
PRIME MISSION

DATE

See CoFR Comment Form for additional comments/clarifications.

I have reviewed with the Space Shuttle Program and Center S&MA organizations the status of preparations for this mission including the Launch On Need (LON) rescue mission as briefed (if required, a LON FRR will be conducted and flight certification will be signed), and the readiness of the International Space Station for launch and on-orbit operations (for ISS missions), including the uncertified Contingency Shuttle Crew Support (CSCS) operation, as briefed. I concur with proceeding with this mission.



B. D. O'CONNOR
CHIEF OF SAFETY AND MISSION ASSURANCE

31 MAY 07

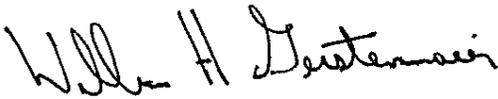
DATE

See CoFR Comment Form for additional comments/clarifications.

DELTA STS- 117 CoFR ENDORSEMENT

APPROVAL

The FRR Board has conducted a comprehensive assessment of the readiness of all flight and ground systems and supporting personnel. For ISS missions, the FRR Board has also conducted a comprehensive assessment of the readiness of the Launch Package/Cargo Element (LP/CE), ground hardware/software support facilities and personnel to support the flight, stage and increment including the readiness of the on-orbit stage to accept the LP/CE and return items. The Certificate of Flight Readiness has been endorsed by each program element. I have concluded, with the concurrence of the FRR Board, that pending completion of planned work, the Space Shuttle Program is ready to execute this mission, including the LON rescue mission as briefed (if required, an LON FRR will be conducted and flight certification will be signed), and the International Space Station Program is ready for launch and on-orbit operations (for ISS missions) including the uncertified CSCS operation, as briefed.



31 MAY 2007

W. H. GERSTENMAIER

ASSOCIATE ADMINISTRATOR, SPACE OPERATIONS
MISSION DIRECTORATE (CHAIR, FRR BOARD)

DATE