NASA Space Operations Mission Directorate

1st Space Exploration Conference
January 31, 2005

William F. Readdy
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for Space Operations


Return to Flight

SHUTTLE LAUNCH PROCESSING UPDATE

- Discovery Main Engine installation complete Dec 10
- First dual sensor Orbiter Boom Sensor System delivered Dec 23
- Solid Rocket Booster stacking complete Jan 4
- First modified External Tank arrived Jan 5
- OBSS installed in OV-103 on Jan 24

Modified External Tank Delivered

Space Shuttle Main Engines Installed

OBSS Delivered & Installed

SRB Stacking Complete

Processing on track for May launch window.


The Crew of
STS-114
Target Launch Window:
May 12 – June 3, 2005
COLLINS
KELLY
NOGUCHI
ROBINSON
THOMAS
LAWRENCE
CAMARDA

International Space Station

Expedition 10 Crew

Leroy Chaio,
Commander

Salizhan Sharipov,
Flight Engineer

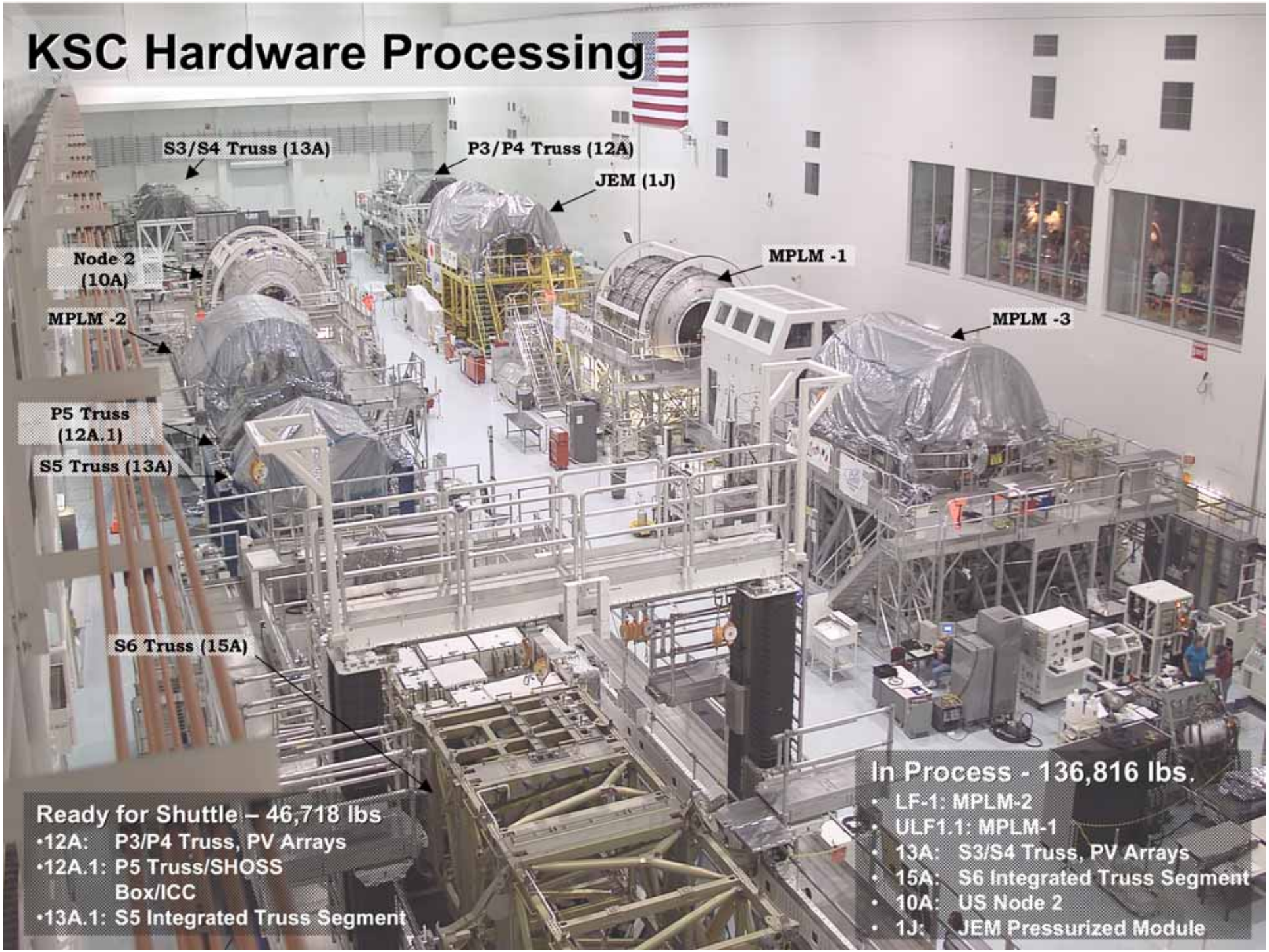
Arrived:
October 16, 2004

Resupply Flights:
Progress 16P on December 23rd
Progress 17P on February 28th

EVAs:
Russian 12
Russian 13

Scheduled Return:
April 25, 2005

KSC Hardware Processing



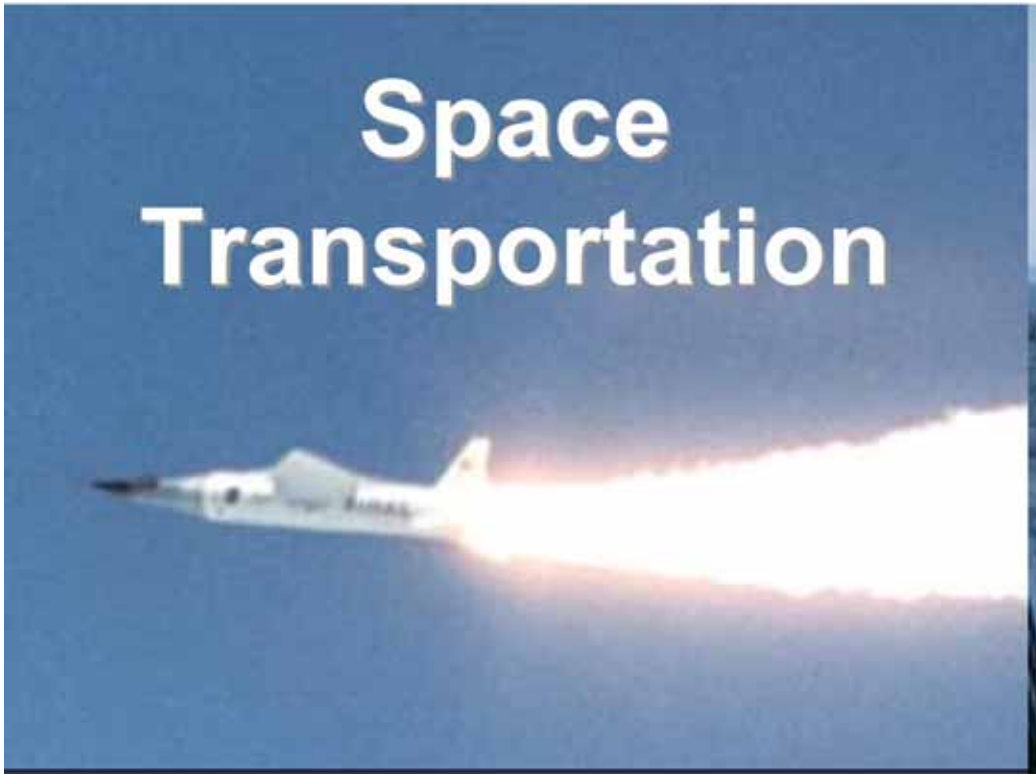
Ready for Shuttle – 46,718 lbs

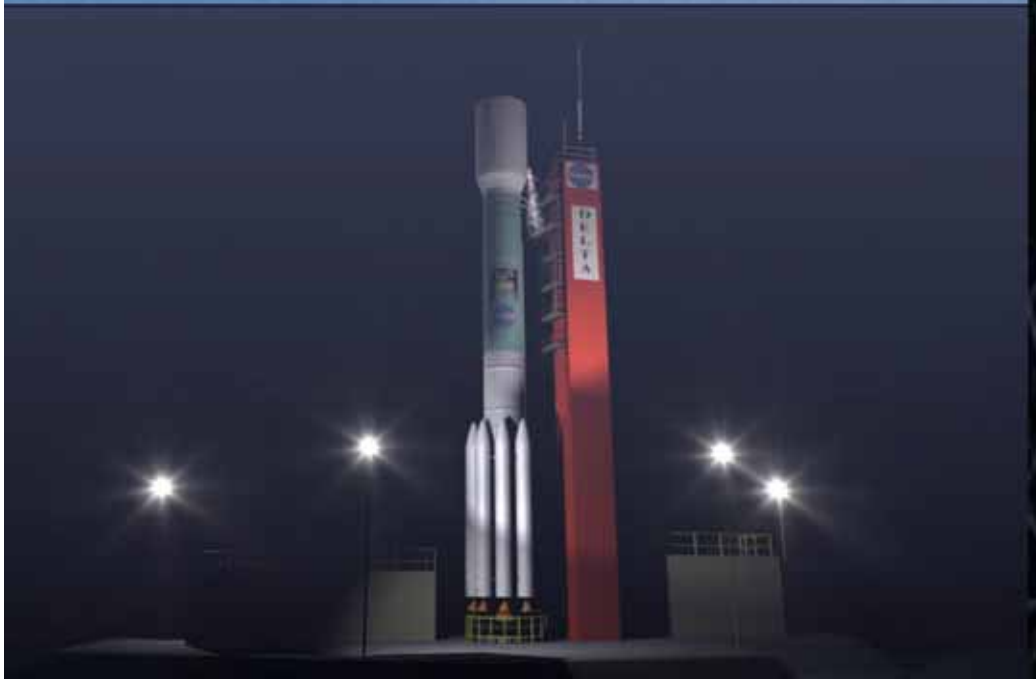
- 12A: P3/P4 Truss, PV Arrays
- 12A.1: P5 Truss/SHOSS Box/ICC
- 13A.1: S5 Integrated Truss Segment

In Process - 136,816 lbs.

- LF-1: MPLM-2
- ULF1.1: MPLM-1
- 13A: S3/S4 Truss, PV Arrays
- 15A: S6 Integrated Truss Segment
- 10A: US Node 2
- 1J: JEM Pressurized Module

Space Transportation





STATUS OF COMMERCIAL SPACE TRANSPORTATION SERVICES RFI

End of year, 2005

RFP award

Summer 2005

RFP release based on RFI submittals and acquisition strategy

Currently

Complete review of RFI submittals

Brief NASA senior leadership and finalize acquisition strategy

October 2004 – January 2005

Submissions reviewed against the six transportation requirements + the business model

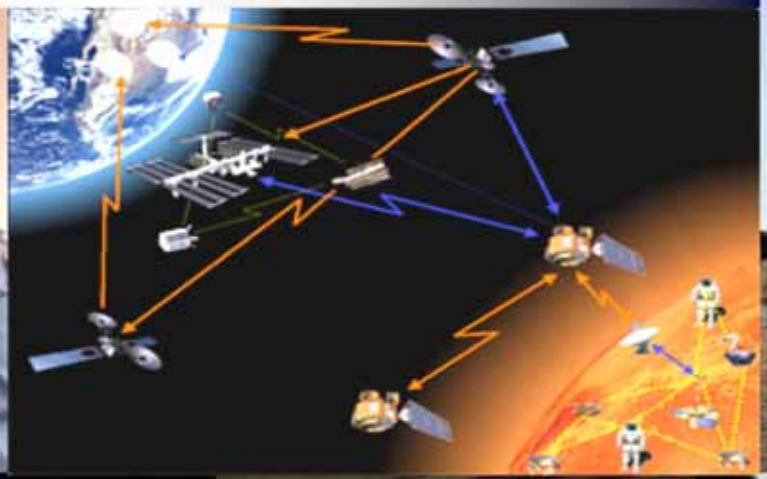
October 15, 2004

Space Operations closed on an RFI to meet Agency-wide requirements for:

- ground-to-LEO transportation
- ground-to-interplanetary trajectory insertion
- ground-to-LEO rendezvous
- ground-to-staging location
- human transport and return
- in-space operations

26 groups submitted through the RFI

Space Communications



SPACE COMMUNICATIONS AND EXPLORATION: BUILDING THE INTERPLANETARY INTERNET

The Office of Space Communications (OSC) leads the development of the Agency's future space communications and navigation architecture including the advocacy of associated data standards in support of the Agency's various missions.

SUMMARY

- Space Operations is responsible for the first critical elements of the Vision for U.S. Space Exploration – Space Shuttle Return to Flight and assembly and utilization of ISS

- Space Operations will assist in the creation of transformational capabilities in space launch and space communications

- Space Operations will assist the developers in the Exploration Directorate in developing requirements for future systems and accepting the "hand-off" once these systems become operational

Space Shuttle Return to Flight, a fully utilized ISS, reliable space access, and transformational space communications are the cornerstones of Exploration!

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