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KENNEDY SPACE CENTER SPACE SHUTTLE STATUS REPORT
WEDNESDAY, JUNE 21, 1995 (11:46 AM EDT)

LAUNCH MINUS 2 DAYS

MISSION: STS-71 -- 1st MIR DOCKING

VEHICLE: Atlantis/OV-104
LOCATION: Launch Pad 39-A
TARGET LAUNCH DATE: June 23
APPROX. LAUNCH TIME: 5:08.46 p.m. EDT
LAUNCH WINDOW: 7 minutes
TARGET KSC LANDING DATE/TIME: July 4 at 12:04 p.m.
MISSION DURATION: 10 days, 18 hours, 56 minutes
CREW SIZE: 7 up, 8 down
ORBITAL ALTITUDE and INCLINATION: 196-245 statute miles/51.60 degrees

NOTE: The countdown for mission STS-71 and the launch of Atlantis on Friday continues today. The countdown began yesterday at 9:30 a.m. at the T-43 hour mark. Late yesterday, engineers monitoring the pressure of a reaction control system helium tank in the right-hand orbital maneuvering system pod, noticed a decay in pressure of about a half psi per hour. A leak check revealed the most probable source to be a fitting on the fuel supply helium tank serving the right-hand reaction control system. After the pad reopens, following the loading of the onboard cryogenic tanks later this afternoon, that fitting will be inspected and additional leak checks made.

At this time, the pad has been cleared for loading the onboard cryogenic tanks with the liquid hydrogen and liquid oxygen reactants. Reactant loading is expected to be finished at about 2 p.m. The reactants will provide electricity for the orbiter and crew while in space and drinking water as a by-product during their 11-day mission.

After the cryogenics are loaded, the orbiter's mid-body umbilical unit will be demated and retracted into the fixed service structure. Final vehicle and facility close-outs will also resume.

Tomorrow, preparations will be made to retract the rotating service structure to launch position at about 8:30 p.m. Loading of the external tank with cryogenic propellants is scheduled to begin at about 7:45 a.m. Friday.

Air Force weather forecasters are currently indicating a 70 percent probability of weather prohibiting launch on Friday. The primary concerns are for showers and thunderstorms. During Friday's launch window, the winds at Pad A are expected to be from the east-southeast at 12-16 knots; temperature 80 degrees F; visibility 7 miles; and clouds scattered at 3,500 and 7,000 feet, and broken at 25,000 feet. The 24-hour-delay forecast reveals similar conditions and a 70 percent chance of violation.

The seven-member astronaut crew arrived at KSC's Shuttle Landing Facility at 4:30 p.m. Tuesday. Today they will be involved with checking out their mission plans and fit checks of their equipment.

SUMMARY OF BUILT-IN HOLDS FOR STS-71

| T-TIME | LENGTH OF HOLD | HOLD BEGINS | HOLD ENDS |
|---|---|---|---|
| T-27 hours | 4 hours | 1:30 a.m. Wed. | 5:30 a.m. Wed. |
| T-19 hours | 8 hours | 1:30 p.m. Wed. | 9:30 p.m. Wed. |
| T-11 hours | 19 hours, 49 minutes | 5:30 a.m. Thurs. | 1:19 a.m. Fri. |
| T-6 hours | 2 hours | 6:19 a.m. Fri. | 8:19 a.m. Fri. |
| T-3 hours | 2 hours | 11:19 a.m. Fri. | 1:19 p.m. Fri. |
| T-20 minutes | 10 minutes | 3:59 p.m. Fri. | 4:09 p.m. Fri. |
| T-9 minutes | 40 minutes | 4:20 p.m. Fri. | 5:00 p.m. Fri. |

CREW FOR MISSION STS-71

| | |
|---|---|
| Robert "Hoot" Gibson | Commander (CDR) |
| Charles Precourt | Pilot (PLT) |
| Ellen Baker | Mission Specialist (MS3) |
| Greg Harbaugh | Mission Specialist (MS1) |
| Bonnie Dunbar | Mission Specialist (MS2) |
| Anatoly Solovyev | Mir 19 Commander (MS4 - Ascent only) |
| Nikolai Budarin | Mir 19 Flight engineer (MS5 - Ascent only) |
| Vladimir Dezhurov | Mir 18 Commander (Entry only) |
| Gennady Strekalov | Mir 18 Flight engineer (Entry only) |
| Norm Thagard | Mir 18 Cosmonaut-Researcher (Entry only) |

SUMMARY OF STS-71 LAUNCH DAY CREW ACTIVITIES

Friday, June 23

| | |
|---|---|
| 5:09 a.m. | Wake up |
| 5:45 a.m. | Breakfast |
| 11:30 a.m. | Dinner and crew photo |
| 12:14 p.m. | Weather briefing (CDR, PLT, MS2) |
| 12:14 p.m. | Don flight equipment (MS1, MS3, MS4, MS5) |
| 12:24 p.m. | Don flight equipment (CDR, PLT, MS2) |
| 12:54 p.m. | Depart for launch pad 39A |
| 1:24 p.m. | Arrive at white room and begin ingress |
| 3:09 p.m. | Close crew hatch |
| 5:09 p.m. | Launch |

NOTE: For additional details regarding STS-71 countdown milestones, please refer to KSC Release No. 55-95.

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