



Rudder speed brake actuators installed on Atlantis

▲ **Shuttle Update:** On Atlantis, final power-down work on the wiring for the Return to Flight modifications is almost complete in the Orbiter Processing

Facility in preparation for the scheduled power-up of Atlantis.

The payload bay doors of Atlantis were closed last week in support of scheduled maintenance work performed in the bay. Following the successful completion of the maintenance, the doors were reopened and processing work began.

Fuel cells No. 1, 2 and 3 were installed for flight. Fuel cells use oxygen and hydrogen to provide electrical power during a mission. All four Rudder Speed Brake (RSB) actuators were inspected and installed. Technicians are beginning to install the RSB panels and seals.

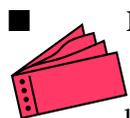
On **Discovery**, the three Space Shuttle Main Engines are being moved from the Main Engine Shop into the OPF for installation on Discovery early this week. Installation of the new wing leading edge sensors and cable continues on both the right and left wings.

The sensors and relay boxes are being added for Return to Flight on the backside of the Reinforced Carbon-Carbon panels, and should detect any temperature increase or

impact data during the launch.

▲ **HQ Tree Honors Military:** “Pride and Patriotism” is the theme of the Christmas tree and decorations in the lobby of the Headquarters Building. If you have a family member serving in the military away from home during this holiday season, you are invited to hang an ornament on the Christmas tree in honor of your loved one. You must provide your own ornament (no larger than a baseball and in keeping with the red, white and blue theme). Please leave your ornament in the box provided near the tree no later than Dec. 13. Ornaments will be hung for you so please do not attempt to hang them on the tree yourself. For more information, please contact Leslie M. Solum, OP-ES, 867-0299.

■ **Cassini Captures Saturn Moon Red-Handed** — Stealing is a crime on Earth, but at Saturn, apparently it is routine. The Cassini spacecraft has witnessed Saturn’s moon Prometheus snatching particles from one of Saturn’s rings. Find the link at http://www.nasa.gov/mission_pages/cassini/main/index.html to read more about it.



■ **More Holiday Offers for KSC Employees** — Discount prices for upper level and lower bowl seats are being offered for Kennedy Space

Employees may add ornament to tree of honor in HQ Lobby

Center Night at the TD Waterhouse at 7 p.m. Dec. 27 when the Orlando Magic play the New York Knicks. A Magic representative will be at the HQ cafeteria Dec. 9, O&C cafeteria Dec. 10, SSPF cafeteria Dec. 13 and the MFF cafeteria Dec. 14. For more information, go to the NASA Exchange Web page at <http://nasaexchange.ksc.nasa.gov>.

■ **December Cardiovascular Disease (CVD) Screening** — From 7-8 a.m. Wednesday at the OHF and Thursday at the LAC (MFF). The two-page CVD questionnaire can be picked up at any medical facility or downloaded from the SGS home page at <http://kscboc-forms/KSCForms2/ref/KSC28-1010.itr>. (Note: The 2005 Schedule is located on the new 2005 forms.) This form can be filled out online and then printed. Please print each page separately. You must fast for 12 hours (nothing but water) prior to the screening.

■ **Did You Know?** The annual KSC Cellular and Pager Vendor Day(s) are being held from 10 a.m. to 2 p.m. Wednesday and Thursday in the KSC Headquarters Building. Presenting their latest cellular and paging equipment will be Cingular/ATT Wireless Systems, Verizon and USA Mobility (formerly Metrocarril Paging), all contractual providers of KSC wireless equipment.