

May 27, 2010

To: All ULA Teammates
From: Michael Gass and Dan Collins
Subject: Congratulations on the Successful Launch of Delta IV GPS IIF-1!



Congratulations on another successful launch!

A Delta IV M+(4,2) lifted off today from Space Launch Complex-37B carrying GPS IIF-1. The Global Positioning System IIF (GPS IIF) series is an upgrade of the original GPS, a worldwide timing and navigation system that utilizes 24 satellites, positioned in orbit approximately 11,000 miles above the Earth's surface. These satellites continuously transmit digital radio signals pertaining to the exact time (using atomic clocks) and exact location of the satellites. The upgraded satellites have a design life of 12 years.

With the proper equipment, users around the world can receive these signals to calculate time, location and velocity. The signals are so accurate that time can be measured to within a millionth of a second, velocity within a fraction of a mile per hour and location to within meters. Receivers have been developed for use in aircraft, ships, land vehicles and to hand carry.

As a result of increased civil use, commercial use and military operations, the U.S. Air Force is introducing the following new capabilities and technologies to the GPS IIF series that will complement the existing space and control segments while improving

mission performance:

- Two times greater predicted signal accuracy than heritage satellites.
- New L5 signals for more robust civil and commercial aviation.
- An on-orbit, reprogrammable processor, receiving software uploads for improved system operation.
- Military signal "M-code" and variable power for better resistance to jamming in hostile environments, meeting the needs of emerging doctrines of navigation warfare.

We congratulate all the ULA employees that have been integrating, building, and processing the GPS IIF-1 vehicle and mission for the long-term as well as all of those that have diligently worked through the many challenges in the last couple of months in such a dedicated and professional manner.

GPS IIF-1 was launched for Boeing Space and Intelligence Systems, the designer and manufacturer of the GPS IIF fleet. Boeing's customer is the Global Positioning System Wing (GPSW) at Los Angeles Air Force Base in El Segundo, Calif., at the Space and Missile Systems Center (SMC). The GPS Control Segment is operated by the 50th Space Wing, Schriever Air Force Base, Colo., and is responsible for the satellite delivery to orbit and operation of the constellation.

Congratulations to the entire team on your perseverance and attention to detail that led to mission success.

Sincerely,

/s/

Michael C. Gass
President & CEO

/s/

Daniel J. Collins
COO

