



1720 Apollo Court
Seal Beach, CA 90740 USA
+1 562 493 0158
www.dtsweb.com

DTS Contact: Shelly Horvath
Phone: +1 562 493 0158
shelly.horvath@dtsweb.com
www.dtsweb.com

Agency Contact: Cynthia Guardia
Cia Communications, Inc.
Phone: +1 714 334 5573
cynthiaguardia@msn.com

FOR IMMEDIATE RELEASE

DTS (Diversified Technical Systems) Data Recorders Help Prepare Orion for Splashdown

Seal Beach, CA (Dec. 2014) – It's no simple task to travel 3,600 miles into space, blaze back through Earth's atmosphere at 20,000 mph with temperatures approaching 4,000 degrees Fahrenheit, and then splash-land into the Pacific Ocean. That's why NASA has spent three years dropping the 18,000 pound Orion mockup space capsule into a special test pool all wired up with hundreds of sensors, strain gauges and accelerometers to measure stresses and structural integrity, as well as the safety of future astronauts onboard. In a series of splashdown tests at the Hydro Impact Basin at Langley Research Center, NASA relied on DTS (Diversified Technical Systems) sophisticated data recorders and software to capture all the action as they simulated different water landing scenarios that Orion could face when it splashes down into the Pacific on its Dec. 4, 2014 inaugural flight.

Unlike many data recorders used for testing, DTS systems are so small and lightweight that they fit on-board and run autonomously during testing. But what really sets these "black box type recorders" apart is that they are one of the few miniature data recorders in the world designed specifically to survive harsh impacts (like crashing and blasting) and still deliver accurate data every time.

"Being a part of NASA's Orion space vehicle testing at Langley has been an extremely gratifying experience for DTS," said Mike Beckage, DTS co-founder and chair of Lowell Observatory's advisory board. "We're proud to know that the data collected with our systems help make space exploration safer."

The Orion Flight Test is a two-orbit, four-hour flight that will test many of the systems most critical to safety. Orion is the exploration spacecraft designed to carry astronauts to destinations not yet explored by humans, including an asteroid and Mars.



In a series of splashdown tests at Langley Research Center, NASA dropped the 18,000 lb. Orion mockup capsule into a special test pool to re-create the splashdown anticipated for the Orion capsule's inaugural space mission Dec. 4, 2014. DTS data recorders and software were used on-board the capsule to capture important structural and crew safety test data.





For over 15 years, NASA has used DTS data acquisition systems to capture critical test data on helicopter crash landings, capsule drop testing, LDSD-low density supersonic decelerator and aerobrake testing. Providing accurate test data prior to real-live missions is an important part of research for understanding crash dynamics and improving occupant safety in any arena.

For more information on DTS's data acquisition systems, visit www.dtsweb.com or contact sales@dtsweb.com.

About DTS

Founded in 1990 by three crash test engineers, DTS data recorders and sensors are used worldwide in crash, blast and biomechanics testing by top automakers, aerospace and leading research facilities. The U.S. Army named a DTS helmet sensor as one of "The Greatest Inventions." *Inc.* Magazine has named DTS three times as one of the fastest-growing private companies in the U.S. Based in Seal Beach, California DTS has technical centers in Michigan, Australia, China, U.K. and Japan.

###