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Sikorsky X2 Technology™ Demonstrator Wins Prestigious Robert J. Collier Trophy

STRATFORD, Conn., March 15, 2011 –The Sikorsky Aircraft Corp. X2 Technology™ demonstrator team has been named the winner of the 2010 Robert J. Collier Trophy, awarded annually to recognize the greatest achievements in aeronautics or astronautics in America. It is the 100th Collier Trophy to be awarded since the inception of the prize. Sikorsky is a subsidiary of United Technologies Corp. (**NYSE:UTX**).

The award, considered to be the one of the greatest honors to be bestowed in the American aviation industry, recognizes achievements that improve the performance, efficiency, and safety of air or space vehicles, the value of which has been thoroughly demonstrated by actual use during the preceding year. The actual trophy is permanently housed in the Air and Space Museum and it will be inscribed with the words, “Sikorsky Aircraft Corporation and the X2 Technology™ Demonstrator Team” just prior to it being moved and displayed at the Collier Dinner in May.

The recognition comes six months after the X2 Technology demonstrator successfully achieved a speed of 250 knots true air speed in level flight, setting an unofficial speed record for a helicopter and accomplishing the program’s ultimate speed milestone. The Collier Trophy will be formally presented at the Annual Collier Dinner to be held on May 5 at the Crystal Gateway Marriott in Arlington, Va.

“This is a tremendous honor that recognizes the hard work, dedication, skill and vision of many people,” said Sikorsky President Jeffrey P. Pino. “Sikorsky has a long and storied history of innovation, starting with the invention of the world’s first practical helicopter and continuing today with X2 Technology and the exciting new possibilities it opens for our company and our industry.”

Robert J. Collier was an aviator, humanitarian, and sportsman who commissioned the trophy that bears his name in 1910 with the intent to encourage the American aviation community to strive for excellence and achievement in aeronautic development, according to the National Aeronautic Association web site. Previous Collier Trophy winners comprise a veritable “Who’s Who” of aviation excellence including Orville Wright, Chuck Yeager, and the F-22 Raptor Team. Among the Collier committee members to interview Sikorsky X2 team members earlier this week about the demonstrator’s accomplishments was American astronaut Neil Armstrong.

“The entire Sikorsky Aircraft team is thrilled that the Collier Trophy committee has recognized the X2 Technology demonstrator for its game-changing technology, putting us in the highly respected company of some of the industry’s most prominent pioneers,” said Mark Miller, Sikorsky vice president of research & engineering. “This is a tremendous honor for the entire Sikorsky community, and we are proud to see the X2 Technology demonstrator earn its place in aviation history.”

“As the X2 Technology program transitions to its first application, we are confident that the X2™ design has a tremendous future and is scalable for a variety of rotorcraft sizes and applications. This recognition is warm acknowledgement of the great things that can be achieved when the spirit of innovation and dedication to the task are the foundation,” Miller added

“The X2 Technology demonstrator program set out to accomplish four key performance objectives: low single pilot work load, low vibration, low acoustic signature, and speed – defined as cruise at 250 knots,” said Jim Kagdis, program manager for Sikorsky’s Advanced Programs. “There was a fifth key objective that remains a driving force to all that we do at Sikorsky: to preserve the legacy and pioneering spirit of our company founder, Igor Sikorsky, and to educate and inspire the next generation of engineers and aviation professionals. The Collier Trophy exemplifies this fifth objective, so it is hugely rewarding for the team to stand recognized for upholding the basic tenets on which Sikorsky Aircraft was founded. I am extremely proud of the team and our accomplishment.”

The X2 Technology demonstrator combines an integrated suite of technologies intended to advance the state-of-the-art, counter-rotating coaxial rotor helicopter. It is designed to demonstrate a helicopter can cruise comfortably at 250 knots while retaining such desirable attributes as excellent low speed handling, efficient hovering, and a seamless and simple transition to high speed.

Among the innovative technologies the X2 Technology demonstrator employs are:

- Fly-by-wire flight controls
- Counter-rotating rigid rotor blades
- Hub drag reduction
- Active vibration control
- Integrated auxiliary propulsion system

As a “follow-on” to the successful X2 program, Sikorsky Aircraft is continuing development of the next-generation rotary wing technology by launching the S-97™ RAIDER™ program. Sikorsky and select suppliers will design, build, and fly two prototype light tactical helicopters. These prototype vehicles will enable the U.S. armed forces to experience, first hand, the advanced performance capabilities X2 Technology can provide.

Like the X2 Technology demonstrator, the S-97 RAIDER helicopter will feature twin coaxial counter-rotating main rotors and a pusher propeller. In addition to flying at nearly twice the speed of a conventional helicopter, the S-97 RAIDER prototype aircraft will incorporate other key performance parameters critical to combat operations — increased maneuverability, greater endurance, and the ability to operate at high altitudes.

The X2 Technology program began in 2005 when Sikorsky first committed resources and full funding for the program's development. Key suppliers for the X2 Technology demonstrator are:

- Eagle Aviation Technologies, LLC.: Main rotor blades, miscellaneous composite hardware
- Goodrich Corporation: SmartProbe™ air data system and engine fuel control system
- Hamilton Sundstrand Corp.: Flight Control Computers, Active vibration control, engineering support
- LHTEC (Light Helicopter Turbine Engine Company, a partnership between Rolls-Royce/Honeywell): Engines, engineering support
- Moog, Inc.: Active vibration actuation, Consignment MU/EU components, engineering support
- Rotating Composite Technologies, LLC: Pusher propeller

Over the past two years, Sikorsky's X2 Technology demonstrator has received several accolades including the 2009 *Popular Mechanics* Breakthrough Innovator Award, a 2009 "Best of What's New" award from *Popular Science*, and was named "One of 2009's Best Inventions" by *Time* magazine. In January 2010, *Aviation Week* named it "One of the Top 10 Technologies to Watch," and was a finalist in the 2010 *Aviation Week* Laureate Awards category of Aeronautics and Propulsion.

The X2 Technology demonstrator's Collier Trophy award marks the second time a Sikorsky team has been awarded the esteemed trophy. In 2002, the S-92[®] helicopter and its program team won the award. The trophy recognized the S-92 helicopter team for designing, manufacturing, testing and introducing into service the S-92 helicopter, which raised "across-the-board" standards for rotary wing air travel.

Sikorsky Aircraft Corp., based in Stratford, Conn., is a world leader in helicopter design, manufacture, and service. United Technologies Corp., based in Hartford, Conn., provides a broad range of high-technology products and support services to the aerospace and building systems industries.

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