

Safran and Honeywell Commence Electric Green Taxiing System Testing

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Honeywell (NYSE:HON) and Safran (NYSE Euronext Paris: SAF) have commenced the first rolling tests for their electric green taxiing system.

The electric green taxiing system is designed to significantly improve airline operational efficiency and provide environmental benefits by slashing the carbon and other emissions created during runway taxi operations.

Using the Auxiliary Power Unit (APU) generator to power motors in the main wheels, the system allows aircraft to taxi without requiring the use of aircraft engines. Each of the aircraft's powered wheels is equipped with an electromechanical actuator, while unique power electronics and system controllers give pilots total control of the aircraft's speed, direction and braking during taxi operations.

The expected benefits of this system include:

- **Lower Fuel Burn – As taxi operations burn a significant amount of fuel—as much as five million tons of fuel per year for short-haul aircraft—the electric green taxiing system can result in savings of up to 4% of total block fuel consumption.**
- **Improved On Time Performance – Aircraft equipped with the system will be able to “pushback and go” more quickly, thus reducing both gate and tarmac congestion, improving on-time departure performance and saving valuable time on the ground.**
- **Greener Operation – The electric green taxiing system greatly reduces engine emissions, resulting in lower carbon taxes.**
- **Added Value – System operation eliminates the need for aircraft pushback and aircraft repositioning via tug tractor while also reducing brake wear, extending main engine life, enhancing ground crew safety, and reducing noise in the airport environment.**

The initiative was first announced at the Paris Airshow in June 2011, where Honeywell and Safran signed a memorandum of understanding to create a joint venture company to deliver innovative new electric green taxiing system solutions for new and existing aircraft.

Yves Leclère, Safran Executive Vice President, Transformation said, “Safran's extensive experience in integrated landing gear systems combined with Honeywell's avionics and APU breadth is an ideal match for rapidly bringing to market an innovative solution which makes business and environmental sense for both airlines and airports.”

This initial series of tests, to be undertaken in Montpellier, France, on a recently acquired A320, will serve to evaluate runway conditions and calculate the necessary loads needed for moving the aircraft on ground. The team is currently focused on prototyping and component level testing, prior to targeted system installation and ground testing in 2013.

“Reducing fuel costs and maximizing operational efficiency are top priorities for our customers”, said John Bolton, President, Honeywell's Air Transport and Regional business. “The start of the electric green taxi testing takes us one step closer to bringing this

technology to market, and ultimately to helping to save our customers several hundred thousand dollars per aircraft per year.”

The system is particularly attractive for airlines that operate high cycle single aisle aircraft. Honeywell and Safran are targeting to offer the electric green taxiing system either on new aircraft or as a retrofit solution to in-service aircraft as early as 2016.

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About Safran

Safran is a leading international high-technology group with three core businesses: Aerospace (propulsion and equipment), Defence and Security. Operating worldwide, the Safran group has more than 54,000 employees and generated sales of 10.8 billion euros in 2010. Working alone or in partnership, Safran holds world or European leadership positions in its core markets. The Group invests heavily in Research & Development to meet the requirements of changing markets, including expenditures of 1.2 billion euros in 2010. Safran is listed on NYSE Euronext Paris and is part of the CAC Large 60 index.

For more information: www.safran-group.com

About Honeywell

Honeywell's aerospace business is a leading global provider of integrated avionics, engines, systems and service solutions for aircraft manufacturers, airlines, business and general aviation, military, space and airport operations. Honeywell (www.honeywell.com) is a Fortune 100 diversified technology and manufacturing leader, serving customers worldwide with aerospace products and services; control technologies for buildings, homes and industry; automotive products; turbochargers; and specialty materials. Based in Morris Township, N.J., Honeywell's shares are traded on the New York, London, and Chicago Stock Exchanges. For more news and information on Honeywell, please visit www.honeywellnow.com.

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