

## PyroGenesis achieves significant milestone with U.S. Navy

MONTREAL, Sept. 12, 2011 /CNW/ - **PyroGenesis Canada Inc.** ("PyroGenesis" or the "Company") (TSX-V: PYR), an environmental solutions company that designs, develops and manufactures plasma waste-to-energy systems and plasma torch products, announced today that it has successfully completed the design, construction and testing of one of its Plasma Arc Waste Destruction Systems (PAWDS) for a United States Navy aircraft carrier. The design, construction and testing were done on behalf of Newport News Shipbuilding, a division of Huntington Ingalls Industries (NYSE: HII).

The successful conclusion of this testing is a prerequisite to the PAWDS system being disassembled, packaged and ultimately shipped for installation on board the Navy's CVN 78 aircraft carrier. This is the first ship of the *Gerald R. Ford* class aircraft carriers. The factory acceptance testing is a significant milestone in PyroGenesis' ongoing commercial relationship with the Navy. In 2008, the Navy contracted Northrop Grumman Newport News, now Newport News Shipbuilding (NNS), to procure a PAWDS unit from PyroGenesis for its next-generation aircraft carrier. Today's announcement is a culmination of a thorough evaluation by NNS that occurred at PyroGenesis' 6,000-square-meter manufacturing and testing facility in Montreal.

"We continue to execute on our commercial milestones, and are looking forward to the installation of our plasma-based waste management system on this new aircraft carrier," said P. Peter Pascali, President and Chief Executive Officer of PyroGenesis. "The Navy evaluated many waste management technologies over the past 10 years and decided that our PAWDS unit was the best solution to meet their needs. We are excited that this relationship is progressing and intend to leverage our success with the Navy to expand our commercial pipeline in both the marine and land-based markets."

PyroGenesis' Chief Operating Officer, Gillian Holcroft commented, "The U.S. Navy is highly selective when it evaluates technology for its multi-billion dollar, nuclear aircraft carrier. The technology that the Navy chooses has to meet the most stringent design and performance specifications in the world. PyroGenesis is proud to have earned the confidence of the U.S. Navy to deliver such an important system for its state-of-the-art carrier."

The PAWDS system is designed for the safe and efficient destruction of shipboard waste. The patented, compact technology is five times smaller than a conventional marine incinerator, and does not use fossil fuels. Instead, the system uses air and electricity to generate a plasma plume, with a temperature of approximately 5,000 degrees Celsius that can rapidly and efficiently gasify five tons per day of combustible waste. PAWDS can safely and efficiently treat waste such as paper, cardboard, plastics, textiles, wood, food and sludge oil, and can be started up or shut down in just a few minutes.

### About PyroGenesis Canada Inc.

PyroGenesis Canada is an environmental solutions company that designs, develops and manufactures plasma waste-to-energy systems and plasma torch products. PyroGenesis' proprietary plasma technologies utilize the intense energy of plasma to gasify and vitrify virtually any type of waste without producing hazardous by-products. PyroGenesis' patented gasification and vitrification technology is different from incineration because it produces a clean synthetic gas from waste, which can be used for power generation. PyroGenesis' technology can also turn waste into a glassy rock that can be utilized as construction material. PyroGenesis has marquee defense industry and civilian customers that are using its technology in marine and land-based applications. For more information, please visit [www.pyrogenesis.com](http://www.pyrogenesis.com).

*This press release contains certain forward-looking statements, including, without limitation, statements containing the words "may", "plan", "will", "estimate", "continue", "anticipate", "intend", "expect", "in the process" and other similar expressions which constitute "forward-looking information" within the meaning of applicable securities laws. Forward-looking statements reflect the Company's current expectation and assumptions, and are subject to a number of risks and uncertainties that could cause actual results to differ materially from those anticipated. These forward-looking statements involve risks and uncertainties including, but not limited to, our expectations regarding the acceptance of our products by the market, our strategy to develop new products and enhance the capabilities of existing products, our strategy with respect to research and development, the impact of competitive products and pricing, new product development, and uncertainties related to the regulatory approval process. Such statements reflect the current views of the Company with respect to future events and are subject to certain risks and uncertainties and other risks detailed from time-to-time in the Company's ongoing filings with the securities regulatory authorities, which filings can be found at [www.sedar.com](http://www.sedar.com). Actual results, events, and performance may differ materially. Readers are cautioned not to place undue reliance on these forward-looking statements. The Company undertakes no obligation to publicly update or revise any forward-looking statements either as a result of new information, future events or otherwise, except as required by applicable securities laws.*

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