



# Media Release

**For Immediate Release:** 5 August 2019  
**Contact:** Martha Hanson 802-528-8140  
**Re:** LMS to Support Aerial Firefighter Mission

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## LMS chosen by Viking Air Limited for fuel gauging & indication on renowned Canadair aerial firefighters

*System is part of major Avionics Upgrade Program (AUP) for Canadair CL-215T & CL-415*



(GEORGIA, VT – 5 August 2019) – Liquid Measurement Systems, Inc. (LMS) has begun work on an improved fuel measurement and indication system for Viking Air Limited’s Canadair CL-215T and CL-415 Aerial Firefighter Fleet.

The CL-215T and CL-415 are amphibious turboprop planes specifically designed to provide aerial support for firefighting missions.

Known as the Water Bomber, the aircraft is able to scoop water rapidly into its belly (up to 1,600 gallons in 12

seconds) from a natural water source near a forest fire, and drop it on the fire without having to return to a remote water station for refilling. This makes the CL-215T and CL-415 extremely efficient at delivering water to forest fires, when time and resources are of the essence.

Viking’s total upgrade will deliver a new, harmonized cockpit to meet the global market’s demand for high versatility amphibious firefighters, as well as anticipate operational and technical requirements for the next 25 years or more.

LMS’ improved fuel quantity indication system will transmit continuous fuel quantity measurement from the fuel tanks to an aircraft data concentrator, as well as to the cockpit.

### **Liquid Measurement Systems**

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LMS' system will also include a Refuel Preselect Panel with a targeted fill quantity selector and a separate automatic refueling initiator. The Panel will independently control the refuel shut-off valves as well, to ensure that automatic refueling conforms to the targeted fill quantity, while keeping the tanks balanced.

LMS will design, certify, acquire TSOAs, and manufacture the new system components. The components include light-weight and strong carbon composite in-tank capacitance fuel probes and compensators, signal conditioners operating with DO-178 DAL B software, and the full refuel preselect panel, operating with DO-178 DAL C software.

If launched, says Viking, the state-of-the-art CL-515 aerial firefighter will also use the LMS system.

"We are pleased to have been selected by Viking for this project," said LMS President Scott Fewell.

He continued, "30-plus years in service has earned these aircraft a reputation as the most efficient means to protect lives, property and nature from uncontrolled fires, the world over. LMS welcomes the opportunity to become part of that tradition, with safe, accurate and reliable fuel measurement, indication and refueling – all of which are mission-critical."

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#### ABOUT LMS

LMS is one of Vermont's fastest growing aerospace companies, specializing in the design, development and manufacture of fuel measurement and management technologies for commercial and military aircraft.

Learn more about Liquid Measurement Systems at [www.liquidmeasurement.com](http://www.liquidmeasurement.com)

#### ABOUT VIKING AIR, LTD

Headquartered in Victoria, BC, Viking is the global leader in utility aircraft services, and the manufacturer of the world-renowned Series 400 Twin Otter. Viking is the Original Type Certificate holder for all out-of-production de Havilland aircraft, DHC-1 through the DHC-7, and provides exclusive spare parts manufacturing and product support for the legacy de Havilland fleet. In 2007 Viking launched the Twin Otter Series 400 production program, and to date new Viking aircraft have sold to over 30 countries worldwide. In 2016, Viking acquired the Type Certificates (manufacturing rights) for the Canadair CL-215, CL-215T, and CL-415 aircraft. With this transfer, Viking assumed responsibility for all product support for the global fleet of 170 aerial firefighters.

Viking is managed by Longview Aviation Capital Corp. (LAC), established in 2016 to manage a portfolio of long-term investments in the Canadian aerospace industry. LAC includes the assets of Viking Air Ltd.; De Havilland Aircraft of Canada Limited, owner of the entire Dash 8 program including the 100, 200, and 300 Series and the in-production 400 program; Pacific Sky Aviation Inc.; Longview Aviation Asset Management Inc.; and Longview Aviation Services.

Longview, through its subsidiaries, holds the Type Certificates for the entire product line of original De Havilland Canada aircraft. Longview has a workforce of approximately 1,800 full-time employees in

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manufacturing and aircraft service support in locations across Canada, including Victoria, Calgary, and Toronto.

For additional information, please visit [www.vikingair.com](http://www.vikingair.com) or [www.lvav.ca](http://www.lvav.ca).

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