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Press Release

FOR IMMEDIATE RELEASE

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LSP TECHNOLOGIES, INC. WINS SMALL BUSINESS INNOVATION RESEARCH GRANT FOR LASER BOND INSPECTION (LBI) OF ADHESIVE BOND STRENGTH OF BONDED STRUCTURES IN CONFINED LOCATIONS.

Dublin, Ohio, February 13, 2013 – LSP Technologies, Inc. (LSPT) announces that it has been awarded an SBIR Phase 1 by the US Department of Defense Advanced Research Projects Agency ([DARPA](#)). LBI advances achieved on this program will provide approaches to non-destructively test adhesive bonds in confined areas previously restricted due to access limitations and the small size of features to be inspected. LSP Technologies' current [Laser Bond Inspection technology](#) can inspect bonds for strength in easily accessible bonded structures. The technology can also be employed in the detection of kissing bonds.

Adhesively bonded composite structures are now incorporated into aircraft used for both civilian and military applications by all major aerospace manufacturers. Many composite structures are assembled with fasteners, but adhesive bonding of the composite components into a structure will be utilized to meet future design requirements. In order for the industry to certify these aircraft, the integrity of the adhesive bonds must be tested to determine and confirm the safety of the structure for service. There is no conventional non-destructive testing method available to assure that the bond strength is adequate for service other than LBI.

LBI technology has been in development for over 10 years and provides the aerospace industry a measurable and cost effective NDT method to validate the safety and integrity of adhesively bonded structures. LBI has the advantage of inspecting composite-to-composite bonds as well as metal-to-metal and composite-to-metal bonds. Validation of these bonds allows airframe



manufacturers more flexibility to design air vehicles to meet current and future requirements.

[DARPA](#) is the central research and development organization for the United States Department of Defense. DARPA's mission is to maintain the technological superiority of the U.S. military and prevent technological surprise from harming our national security by sponsoring revolutionary, high-payoff research bridging the gap between fundamental discoveries and their military use. Over the years, DARPA has worked to enhance our national security by funding research and technology development that have not only improved our military capabilities but have changed the way we live. Since the very beginning, DARPA has worked with people with innovative ideas that lead to groundbreaking discoveries.

DARPA was created in 1958 when the political and defense communities recognized the need for a high-level defense organization to formulate and execute R&D projects that would expand the frontiers of technology beyond the immediate and specific requirements of the Military Services and their laboratories. The Agency has a rich 50-plus year history of successes ranging from the Internet and GPS, to stealth and UAVs, advances that are now ubiquitous but were once considered impossibilities.

“LSPT’s scientists and engineers are pioneers in the (LBI) field,” said Dr. Jeff Dulaney, president and CEO of LSP Technologies, Inc. “and as the sole provider of LBI technology we are proud to be working with DARPA to continue to advance the capabilities of this technology.”

Founded in 1995 by Dr. Jeff Dulaney, LSP Technologies is known as the premier provider of [laser peening](#) equipment and services in the United States. LSPT worked with GE Aviation to establish their laser peening capability in the late 90s, and then worked with the US Air Force to establish itself as an open source laser peening supplier for the rest of industry. In 2003 LSPT began engine component laser peening for the F22 Raptor. The company also now provides laser peening for several other industries, land based power generation and metal forging for example. LSP Technologies continues to grow through the development of innovative laser-based technologies and products. In 2012 LSPT delivered its first Laser Bond Inspection system to Boeing.

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