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FOR IMMEDIATE RELEASE

Lambda Processes 10,000th F402 Vane

Surface Enhancement Technologies LLC, part of the Lambda Technologies Group, recently applied Low Plasticity Burnishing (LPB®) to its 10,000th first stage vane for the F402 Pegasus engine. Lambda has been working steadily to keep the American and allied military fleets of Harriers supplied with upgraded vanes. NAVAIR opted for an LPB solution to eliminate failure from foreign object damage (FOD) that was costing millions in maintenance and endangering crew safety.

"We are very proud of the work we have done with NAVAIR," says Lambda's Vice-President, Kim Bellamy. "Knowing that our technology is both protecting our military personnel and helping to address budget issues is doubly rewarding."

Just the trailing edge of the vane is treated, and the resulting increase in FOD tolerance has improved the service life 20 times over an unprocessed component. Damage tolerance increased from less than 0.005 inch deep FOD to over 0.050 inches without loss of fatigue strength. The larger damage tolerance with LPB simplifies inspection and reduces vane replacement, lowering maintenance costs and increasing fleet readiness and safety.

"10,000 vanes is a major mile marker for us," says Paul Prev y, CEO of Lambda. "This program shows how the right combination of innovation and determination can solve difficult problems. Its continued success demonstrates that solutions like LPB can be implemented effectively and efficiently to provide economical solutions to extending aircraft life without sacrificing performance or safety."

Not a single LPB treated blade has failed in service since production began, confirming Lambda's original fatigue design predictions. With NAVAIR's recent purchase of the Harrier fleet from England, this program will be more important than ever. LPB's ability to eliminate FOD related failure will keep these aircraft running safely as long as they are needed.

LPB is a patented, proven surface treatment that provides a deep layer of compressive residual stress to mitigate fretting, stress corrosion cracking, or foreign object damage in the fatigue prone areas of fatigue critical metallic components. LPB delivers significant fatigue life extension with minimal initial capital investment and low production costs without changing either the material or component design.

Lambda Technologies is an innovative company incorporating a premier materials research laboratory with a world-class engineering and production enterprise dedicated to the development and optimization of surface treatments to improve component performance. For additional information on Lambda Technologies or the LPB process, contact Justin Combs at (513) 561-0883 or visit www.lambdatechs.com.

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