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Lasershot Peening of Landing Gear Components

Final Report of NCMS Project No. 140158



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A variety of landing gear components are failing without having reached their desired service lives. The failures are due primarily to stress corrosion cracking (SCC) and fatigue. The objective of this project was to improve the fatigue life and SCC resistance through the application of laser peening technology to selected components. Team members on this project were the Aging Landing Gear Life Extension Program (ALGLE) at Ogden Air Logistics Center, the Lawrence Livermore National Laboratory (LLNL), the University of California (Davis), and the Metal Improvement Company. The project was funded and managed through the National Center for Manufacturing Sciences (NCMS) Commercial Technologies Maintenance Activities (CTMA) program.

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