# Boeing Installs Propulsion System in STOVL JSF Demonstrator

Boeing mechanics in Palmdale, Calif., prepare to install the flight-rated Pratt & Whitney F119-614 engine in the Joint Strike Fighter X-32B concept demonstrator. The installation was completed in less than four hours with no parts interferences. The engine includes specialized hardware designed and produced by Rolls-Royce for the Boeing direct-lift propulsion system. The Boeing X-32B will demonstrate safe, simple and reliable transitions between conventional and vertical flight for the short takeoff/vertical landing (STOVL) variant of the JSF for the U.S. Marine Corps and the U.K. Royal Air Force and Royal Navy.