ADVANCED FIGHTER CONCEPT TESTED — This 30 percent scale model General Dynamics E-7 advanced fighter recently completed powered testing in the NASA Langley 4-x7-Meter Wind Tunnel. The E-7 augmentor concept is one of several powered-lift short takeoff and vertical landing (STOVL) approaches in which NASA is interested. The augmentor, shown here in its operational mode with door open, would use flow entrainment (the drawing in of outside air) to augment vertical thrust for hover. The model has a 9.7-foot wing span, a 56.8-square-foot wing area and an overall fuselage length of 14.8 feet. The investigation was conducted to determine augmentor performance and configuration aerodynamics from hover through transition to conventional flight.