



B-1 Lancer

A long-range conventional bomber capable of air refueling and flying missions over intercontinental ranges with a heavy load of ordnance.

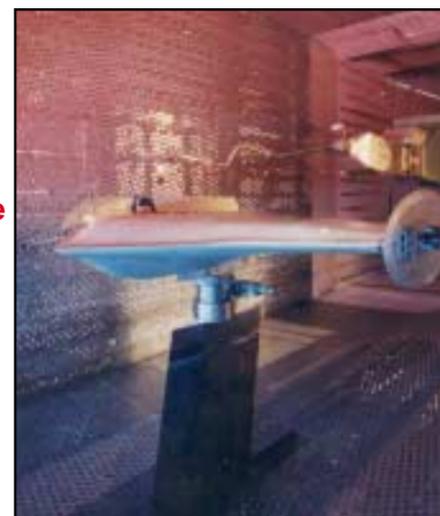
Right, a 1972 test in AEDC's 16-foot transonic wind tunnel



B-2 Spirit

A heavy, long-range, stealth bomber capable of delivering conventional and nuclear munitions anywhere, flying through previously impenetrable defense zones.

In 1995, AEDC performed test work on scale models of a B-2 stealth bomber and a Joint Direct Attack Munition in the 16-foot transonic wind tunnel. AEDC played a key role in the acquisition process by providing data to help ensure the bomb safely separates from the aircraft when released during flight.



B-52 Stratofortress

A long-range, heavy, multirole bomber capable of carrying conventional ordnance, air launched cruise missiles to nuclear weapons with worldwide precision navigation.

In 1995, AEDC personnel are shown discussing an upcoming test of the TF33 engine. Eight of these engines power the B-52. It is also used for the KC-135 refueling aircraft.



Left, a 1973 Component Improvement Program engine was initiated in Test Cell J-2 on the F101-GE-102 B-1B Lancer engine.

AEDC FIGHTS TERRORISM

Many of the weapons systems the United States military is using in the fight against terrorism, Operation Enduring Freedom, can trace their research and development roots to AEDC. As America's Aerospace Advantage, Team AEDC will continue to play a vital role in the worldwide fight against terrorism.



C-17 Globemaster

A heavy-lift, air refuelable cargo and troop transport aircraft for strategic and tactical direct delivery of all classes of military cargo. (Used in Operation Enduring Freedom to deliver food and supplies to the Afghan people.)

A model of a C-17 with 15 remotely controlled surface sensors is shown in the center's 16-foot transonic wind tunnel during a 1983 wind tunnel test.



ALCM (AGM-86)

An air-to-surface cruise missile, the AGM-86 air launched cruise missile is small, subsonic, unmanned and winged. It is deployed on the B-52H Stratofortress and can be equipped with nuclear or conventional warheads.



The ALCM was tested at the center prior to its first flight. The full-scale weapon is shown installed in AEDC's 16-foot transonic wind tunnel in 1976.

KC-135 Stratotanker

A short-to-medium-range tanker that meets the air refueling requirements of Air Force bombers, fighters, cargo and reconnaissance aircraft as well as those of the Marine Corps and Navy. In 1961, AEDC tested the probe and drogue configurations for use on the KC-135.



C-130 Hercules

In 1998, AEDC performed bird impact tests on a full-size front portion of the C-130, an aircraft capable of operating from rough dirt strips providing theater airlift and paratrooping troops and supplies into hostile territory.