

781 TEST SQUADRON



MISSION

The 781st Test Squadron manages the National Radar Cross Section Test Facility (NRTF), which consists of two premier, outdoor, static radar signature measurement ranges (Mainsite and RAMS). Although complementary, Mainsite and RAMS ranges each offer one-of-a-kind capabilities.

The Mainsite facility is capable of radar cross section (RCS) amplitude and phase measurements (monostatic and bistatic), antenna pattern measurements, glint and near field measurements. A wide variety of targets can be tested-from models to full size aircraft or ground vehicles. Targets can be mounted on pylons or columns at a variety of heights, orientations and locations to meet virtually any measurement requirement.

The RAMS facility is an extremely efficient, secure, shadow-plane range specifically designed for monostatic RCS measurements of RCS targets. RAMS was first operational in 1985.

RAMS Antennae Farm Specializes in narrowband and wideband RCS signature characterization of scaled, full-scale, and flyable articles.

LINEAGE

781 Test Squadron constituted, 28 Apr 2006

Activated, 23 May 2006

STATIONS

Holloman AFB, NM, 23 May 2006

ASSIGNMENTS

46 Test Wing, 23 May 2006

COMMANDERS

HONORS

Service Streamers

None

Campaign Streamers

None

Armed Forces Expeditionary Streamers

None

Decorations

None

EMBLEM

On a disc Azure, a Zia with radiating sound waves Gules in middle chief with a representation of a stylized aircraft in honor point Sable; in base a demi-mountain Argent with a pylon issuant from base to honor point of the third, all within a narrow border Yellow. Attached above the disc, a Black scroll edged with a narrow Yellow border and inscribed "INVISUS INDESTRICUS" in Yellow letters. Attached below the disc, a Black scroll edged with a narrow Yellow border and inscribed "781ST TEST SQUADRON" in Yellow letters. **SIGNIFICANCE:** Ultramarine blue and Air Force yellow are the Air Force colors. Blue alludes to the sky, the primary theater of Air Force operations. Yellow refers to the sun and the excellence required of Air Force personnel. The pylon depicts the unit's capability for test and evaluation of low observable aircraft and weapons systems. The electromagnetic waves radiating from the Zia represent the dedication and sacrifice of Squadron personnel. The mountain symbolizes the quality, stability and consistency of the unit's data. (Approved, 14 Jun 2007)

MOTTO

INVISUS INDESTRICUS: Unseen Unhurt

NICKNAME

OPERATIONS

Air Force Lineage and Honors

Created: 29 Jul 2020

Updated:

Sources

Air Force Historical Research Agency. U.S. Air Force. Maxwell AFB, AL.

The Institute of Heraldry. U.S. Army. Fort Belvoir, VA.