

505th TEST SQUADRON



MISSION

The mission of the 505 OS is to conduct advanced and initial qualification training at the operational level of war for air, space, cyber and information operations and to develop tactics, techniques and procedures to assess and integrate irregular warfare activities into joint operations.

The 505th accomplishes its mission by training individuals and organizations on command and control processes and systems during multiple joint, coalition and service-focused exercises, operational rehearsals and experiments using live, virtual and constructive air and space forces.

LINEAGE

505th Operations Squadron constituted, 8 Nov 1999

Activated, 15 Nov 1999

Redesignated 505th Test Squadron, 31 Mar 2011

STATIONS

Hurlburt Field, FL, 15 Nov 1999

Nellis AFB, NV, 31 Jan 2005

ASSIGNMENTS

Air Force Command and Control Training and Innovation Group, 15 Nov 1999

505th Operations Group, 12 Mar 2004

COMMANDERS

HONORS

Service Streamers

Campaign Streamers

Armed Forces Expeditionary Streamers

Decorations

Air Force Outstanding Unit Award

1 Jun 2001-31 May 2003

1 Jun 2003-31 May 2005

1 Jun 2004-31 May 2006

1 Jun 2006-31 May 2007

1 Jun 2008-31 May 2009

EMBLEM



505th Operations Squadron emblem: On a disc per fess Dark Blue (Flag Blue) and Azure (Ultramarine Blue) between a vol Or the first primary feathers barbed, two lightning bolts pilewise Argent, surmounted in base by a terrestrial globe of the second land masses Vert and gridlined White, all within a diminished border Blue. Attached above the disc, a White scroll edged with a narrow Blue border and inscribed "505TH OPERATIONS SQ" in Blue letters. Attached below the disc, a White scroll edged with a narrow Blue border and inscribed "RIGHT TIME RIGHT PLACE" in Blue 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 globe represents the unit's global nature of command and control. The wings and lightning bolts denote the Air Force heritage and C2 links with two-way flow of communication. The division of the background alludes to the upper and lower atmospheres and are representative of the theaters of spacecraft and aircraft. (Approved, 5 Jul 2000)

MOTTO

NICKNAME

OPERATIONS

10/25/2010 A new mission was added to the 505th Command and Control Wing here Oct. 15. The 505th Operations Group at Nellis Air Force Base, Nev., took over Joint Digital Integration for Combat Engagement, or JDICE, from the Air Force Command and Control Integration Center. The JDICE capability complements the wing's mission to improve warfighter capability through C2 testing, tactics development and training.

"The addition of this capability enables the U.S. Air Force Warfare Center to integrate C2 and intelligence, surveillance and reconnaissance across the Air Force's major commands and the joint community," said Col. Ed McKinzie, the 505th CCW commander. JDICE facilitates battlefield data sharing from many different sources over secure networks. The information it provides is timely, accurate, actionable and tactically significant to enhance joint combat effectiveness, according to JDICE team members.

"Adding the JDICE mission allows the wing to be at the center of integration and testing of these capabilities," said Col. Douglas Anderson, the 505th OG commander. "It brings us an ability to test data exchange capabilities and net-enabled tactics, techniques and procedures, providing better situational awareness to the warfighter." The JDICE team, now part of the 505th Operations Squadron, will continue to develop and test TTP and associated Joint Data Network modifications to increase tactical and operation-level situational awareness. The data links use radio signals to transmit information for viewing via cockpit or C2 display terminals.

"Using this information, warfighters can deconflict friendly forces, avoid threats and improve targeting and weapons delivery," said Lt. Col. Michael Christie, the 505th OS commander. "Friendly forces are provided a visual representation that sorts out the good guys from the bad guys and filters out information the warfighter does not need." JDICE began in 2003 as a Secretary of Defense-chartered, USAFWC-hosted Joint Test and Evaluation program. In 2007 the U.S. Air Force Warfighting Integration Office chartered JDICE to integrate, develop and evaluate TTP for combat identification, advanced programs and emerging capabilities. According to Colonel Christie, being part of the 505th CCW allows JDICE capabilities to be fully integrated, tested in USAFWC exercises and developed to provide warfighters with timely, fused information from national sources.

4/8/2011 To effectively test and integrate operational air, space and cyber command and control, or C2, domains, two units redesignated as test organizations here April 5. The 505th Operations Group and 505th Operations Squadron became the 505th Test and Evaluation Group and 505th Test Squadron. The units are part of the 505th Command and Control Wing at Hurlburt Field, Fla. "These changes align the group and squadron with a revised mission focus, creating a persistent infrastructure to address integration seams," said Col. Edward McKinzie, the 505th CCW commander. "This will take C2 integration to the next level for the Air Force and its joint and coalition partners."

While planned for more than a year, the redesignation and revised mission focus complement an independent C2 Training Campus Study completed in January. The study recommends standardizing and consolidating C2 training across air, space and cyberdomains and helps meet the Defense Department's next generation of training strategy, intended to foster a path for revolutionary training. The 505th TEG will advance air, space, cyber and intelligence, surveillance

and reconnaissance, or ISR, capability integration, and tactics, techniques and procedures, or TTP, development. The group also serves as Air Combat Command's operational test organization for operational-level C2 focusing on theater air control systems and ISR weapons systems. In addition, the group oversees monitoring, evaluating and optimizing of air defense radar networks.

"We will be able to enhance the full spectrum of C2 with an array of capabilities to provide an effective integration of our air, space and cyber capabilities," Colonel McKinzie said. During redesignation ceremony speeches, Colonel McKinzie and Col. Douglas Anderson, the 505th TEG commander, praised Air Force leadership for their vision and support of the C2 community. Leaders from Nellis AFB and the C2 and testing community were present and Colonel Anderson went on to thank them for the support already being given. He also talked about Red Flag 11-3, a historic exercise given space and cyber forces were fully integrated from planning through execution and participated in the Combined Air and Space Operations Center-Nellis, or CAOC-N. Red Flag exercises are typically thought of as air combat exercises, where pilots can get their first 10 "combat" sorties. This is also the case for C2 operators, space and cyberprofessionals supporting Red Flags in the CAOC-N, which is run by the now 505th TS.

"C2, ISR, cyber and space were there fully engaged and we gathered some really outstanding lessons learned which are extremely valuable," Colonel Anderson said. "We have already begun planning Red Flag 12-3, and with the support of the entire community it will be even better than 11-3." The 505th CCW's mission is to improve warfighter capability through C2 testing, tactics development and training. During 2010, the wing trained more than 85,000 Airmen, Soldiers, Sailors, Marines and coalition forces. The wing Airmen, through a multi-disciplinary approach, provide training and TTP development for Component Number Air Force headquarters; testing and training of key C2 and ISR systems; and comprehensive, realistic, cutting-edge operational and tactical-level live, virtual and constructive exercises for joint and coalition forces.