

452 MAINTENANCE SQUADRON



MISSION

Avionics Flight is composed of three subordinate sections. The first of these is the Communication-Navigation Section which maintains communication and navigation systems and components including assigned test equipment. The second is Guidance and Control flight which maintains flight instruments, instrument systems, ground proximity warning, inertial navigation, compass, automatic flight control, and stabilization augmentation systems and components. This section performs calibration and tests on torque wrenches. The third is the Electronic Counter measures (ECM) Section which maintains and performs operational tests on flare/chaff dispensing system and other Air Defense System components.

Propulsion Flight inspects and maintains engines and auxiliary power units on assigned aircraft. The section also inspects and maintains support equipment directly related to engines. The section is the wing focal point for all command communication involving propulsion technical matters. It maintains authorized spare engines to support unit and war readiness material needs. The section also supports the entire wing through its function as the coordinator for Precision Measurement Equipment items.

The Munitions Flight provides the capability to forecast, requisition, track, store, stockpile, and maintain serviceable quantities of munitions assets required to meet all mission taskings.

Fabrication Flight is composed of four sections. The first section, Aircraft Metals Technology Section, better known as Machine Welding, repairs, fabricates, heat treats, and hardness tests metal components for aircraft and support equipment. The second section, Structural Maintenance (Sheet Metal) Section, provides corrosion control and modifies, manufactures, inspects, and repairs sheet metal, fiberglass, composite, and plastic components, as well as

related hardware, for aircraft and support equipment. The third section Survival Equipment assembles, inspects, repairs, and packs personnel parachutes, life preservers, anti-exposure duties, aircraft escape slides, thermal barriers, and cargo nets. This section also inspects, cleans and tests safety belts, repairs flight clothing and organizational equipment. The fourth section, Non Destructive Inspection determines structure integrity of aircraft and support equipment using available test equipment.

Maintenance Flight is comprised of two aircraft inspection sections supporting a particular aircraft and the Aero Repair Section. The inspection sections perform and coordinate major and minor Isochronal and special inspection. The aero Repair Section maintains major aircraft systems including flight control, landing gear, and wheel and tire buildup. Aero Repair has the sole responsibility for aircraft crash recovery.

Accessories Flight is composed of three sections. The first of these is the Pneudraulic Section which maintains, services, repairs, modifies, inspects, and tests aircraft hydraulic systems, aerial refueling booms, drogues, and support equipment This section also manufactures tubing and flexible hoses for these systems. The second section, Electro-environmental, preforms on and off equipment maintenance in aircraft liquid and gaseous oxygen, air conditioning, anti-icing, pressurization/fire extinguishing, and bleed air systems. It does repair on liquid and gaseous oxygen and nitrogen tanks. It serves, inspects, bench checks, repairs, and modifies aircraft batteries, wiring harnesses, and electrical components.

LINEAGE

452 Maintenance Squadron, Bombardment, Light constituted, 10 May 1949

Activated in the Reserve, 27 Jun 1949

Redesignated 452 Maintenance Squadron, 2 Mar 1950

Ordered to Active Service, 10 Aug 1950

Relieved from Active Duty and inactivated, 10 May 1952

Activated in the Reserve, 13 Jun 1952

Redesignated as 452 Field Maintenance Squadron, 8 Nov 1954

Inactivated, 14 Apr 1959

452 Consolidated Aircraft Maintenance Squadron constituted, 5 Dec 1958

Activated in the Reserve, 14 Apr 1959

Discontinued, and inactivated, 17 Jan 1963

Activated in the Reserve, 1 Oct 1976

452 Field Maintenance Squadron and 452 Consolidated Aircraft Maintenance Squadron consolidated, 22 Oct 1984. Consolidated unit Designated 452 Consolidated Aircraft Maintenance Squadron.

Redesignated 452 Maintenance Squadron, 1 Feb 1992.

STATIONS

Long Beach Muni Aprt, CA, 27 Jun 1949
George AFB, CA, 10 Aug-26 Oct 1950
Itazuke AB, Japan, 15 Nov 1950
Pusan-East AB, South Korea, 23 May 1951-10 May 1952
Long Beach Muni Aprt, CA, 13 Jun 1952
March AFB, CA, 1 Nov 1960-17 Jan 1963
March AFB (later, March ARB), CA, 1 Oct 1976

ASSIGNMENTS

452 Maintenance and Supply Group, 27 Jun 1949-10 May 1952
452 Maintenance and Supply Group, 13 Jun 1952
452 Troop Carrier Wing, 14 Apr 1959-17 Jan 1963
452 Air Refueling Wing, 1 Oct 1976
452 Logistics (later, 452 Maintenance) Group, 1 Aug 1992

COMMANDERS

Maj Jeffry L. Williams, 1996
Maj Glenn A. Baker, 21 Apr 2013
Maj Jermaine O. Campbell, 10 Jan 2015

HONORS

Service Streamers

Campaign Streamers

Korea:
CCF Spring Offensive
UN Summer-Fall Offensive
Second Korean Winter
Korea, Summer-Fall 1952

Armed Forces Expeditionary Streamers

Decorations

Air Force Outstanding Unit Awards
[1 Oct] 1976-2 Oct 1977
1 Nov 1978-31 Oct 1980
1 Jul 1991-30 Jun 1993
1 Sep 1995-31 Aug 1996
1 Sep 1997-31 Aug 1999
1 Oct 2002-30 Sep 2004
1 Oct 2004-30 Sep 2006
1 Oct 2008-30 Sep 2010

Republic of Korea Presidential Unit Citation
27 Oct 1950-27 Oct 1951

EMBLEM



On a disc Azure, a fess wavy Gules, and barry wavy of four Argent, debruised by the head of an American Bald Eagle Proper, all irradiated by five lightning flashes to chief Or, all within a narrow border Yellow. Attached above the disc, a Blue scroll edged with a narrow Yellow border and inscribed "QUALITY INTEGRITY DUTY" in Yellow letters. Attached below the disc, a Blue scroll edged with a narrow Yellow border and inscribed "452D MAINTENANCE SQ" 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 eagle's head references our national symbol to emphasize the unit's pride and commitment to the nation's defense. The stripes suggest the blood shed by those before us and the patriotism and honor to serve our country. The five lightning bolts represent the various and diverse maintenance specialties. (Approved, 24 Mar 2004)

MOTTO

QUALITY INTEGRITY DUTY

OPERATIONS

USAF Unit Histories
Created: 5 Dec 2010
Updated: 1 Jun 2021

Sources

Air Force Historical Research Agency. U.S. Air Force. Maxwell AFB, AL.
The Institute of Heraldry. U.S. Army. Fort Belvoir, VA.