135th MAINTENANCE SQUADRON

LINEAGE
135th Consolidated Aircraft Maintenance Squadron activated, 1965
Inactivated, 1971
Activated 135th Consolidated Aircraft Maintenance Squadron, 1977
Redesignated 135th Maintenance Squadron, 1992
Inactivated, 1996
135th Maintenance Squadron activated, 1999

STATIONS
Baltimore, MD

ASSIGNMENTS

COMMANDERS
LTC Robert Mickey
LTC Ralph A. Youngs
Lt. Col. James f. LaCalle, #1991
LTC Richard H. Leavy
LTC Cecil Estes
LTC Carl E. Brust
Maj Forest J. Prettyman
Maj Walter T. Jones
Maj Salvatore J. DeMarco
Lt. Col. Julie Curlin

HONORS
Service Streamers

Campaign Streamers

Armed Forces Expeditionary Streamers

Decorations

EMBLEM

EMBLEM SIGNIFICANCE
Ultramarine blue and golden yellow are used in the design. Blue represents the sky, the primary theater of Air Force operations. Yellow signifies the sun and the excellence required of Air Force personnel. The hexagonal shape is representative of a bolt head, and alludes to the unit's function as a maintenance organization. The coat of arms depicted are those of the state of Maryland, the unit's home location. Background: Designed by Staff Sgt. Wayde Minami and approved as official by the U.S. Air Force 15 December 1993.

The 135th Maintenance Squadron insignia was designed by SSgt Wayde Minami, in 1993 The Air Force colors indicate that the unit is part of the United States Air Force. The yellow-and-black Calved Colors and red-and-white Crossland Colors are taken from the flag of the State of Maryland, and symbolize the unit's status as part of the Maryland National Guard. The hexagonal shape is representative of the head of a bolt, and alludes to the unit being a maintenance organization.

MOTTO

NICKNAME

OPERATIONS
Ensures C-130J and C-27J and support equipment are serviceable, safely operable and properly configured for all mission requirements. Through training of assigned personnel and the inspection and repair of aircraft and equipment, the squadron provides mission capable resources for aircrew training, exercises, routine airlift missions and contingency operations.
Officers: 2 Enlisted: 145

Although the 135th has always had an aircraft maintenance function, its status within the organization has changed many times over the years. At times, it was a separate functional area with a unique unit designation, while at other times the maintenance function was incorporated into the operations area (for example, from 1971 to 1977). Aircraft maintenance was also sometimes combined with other support functions.

Two major elements make up the current maintenance squadron, the Component Repair Flight (CRF), which includes the Avionics Element, Propulsion Element, and Accessories Element,

and the Equipment Maintenance Flight (EMF), which includes the Fabrication and Aerospace Ground Equipment Elements.

CRF's Avionics Element includes the Communication/ Navigation Section, which inspects and maintains the unit's airborne electronic systems, including radar, radios, emergency locator transmitters, IFF transponders, radar altimeters, and other navigational systems. Airborne electronic items such as the autopilot, compass, heads up display, and mission computers are maintained by the Guidance and Control Section. Finally, the ECM Section inspects, repairs, and adjusts electronic countermeasure systems such as radar warning receivers and chaff/flare dispensers.

The Propulsion Element is responsible for inspection, repair, replacement and testing of engines and gas turbine units for the unit's C-130s. This shop is also responsible for propulsion support equipment.

The Accessories Element provides a broad base of aircraft systems maintenance capability, ranging from basic operational inspection to major component replacement and modification. The Repair and Reclamation Section's primary function is to maintain aircraft flight control and landing gear systems. This facility is also responsible for maintaining the unit's Crash and Recovery capability. Hydraulic and pneumatic systems fall under the Pneudraulics Section. The Fuels Section is tasked with ensuring the aircraft's fuel storage and delivery systems are functional and free of leakage. This area is particularly critical due to the explosive nature of fuel and fuel vapors. The Electrical/Environmental Section assures the functionality of aircraft electrical supply systems and environmental systems, including heating, air conditioning, and pressur-ization. In addition it maintains the aircraft oxygen system, which is required for high altitude unpressurized flight.

The EMF Fabrication Element consists of the Aircraft Structural Maintenance, Aircraft Metals Technology, Non-Destructive Inspection (NDI), and Survival Equipment Sections. Aircraft sheet metal, composites, plastics and other structural components are maintained, manufactured, painted and repaired by the Aircraft Structural Maintenance Section. The Aircraft Metals Technology Section uses welders, lathes, mills, and other tools for fabrication and repair of aircraft parts and equipment. NDI uses sophisticated techniques, including radiography and ultrasound to ensure the structural integrity of aircraft components. Parachutes, life rafts and other fabrics and materials are inspected, repaired, and maintained by the Survival Equipment Section, which utilizes sewing machines, leak testers, and other equipment to insure the integrity of components.

Finally, the Aerospace Ground Equipment Element performs delivery, inspection, maintenance, and servicing of various types of powered and non-powered support equipment.

135th Maintenance Squadron performed the first ever C-130J depot level inspection on an Air Force special operation command to maintain a critical skill set needed for future C-27J organic maintenance operations. 135th Maintenance Squadron was hand selected for National Guard Bureau fielding team charged with all C-27J maintenance transition processes from contract to organic: training, tech orders, equipment and supply. The maintainers achieved a

77.8 percent mission capable rate for the C-130J, exceeding the Air National Guard Standard of 74 percent. They also achieved a 64 percent mission capable rate for the C-27J.

Air Force Order of Battle
Created: 7 Sep 2010
Updated:

Sources
Unit history. Maryland National Guard, A history of Maryland's Military Forces, 1634-1991.