

# **551<sup>st</sup> COMMODITIES MAINTENANCE SQUADRON**

## **MISSION**

The 551st Commodities Maintenance Squadron repairs and overhauls over 400 different secondary aircraft structures for the B-1, B-52, KC-135, E-3 and E-6 aircraft. Our work load is over 2.3 million man-hours in support of KC-135 tankers. We are presently partnering with commercial sources to provide the best value in warfighter support.

The 551st Commodities Maintenance Squadron currently supports a modern composite facility that is 81,000 square feet. The facility is equipped with a 12'x20' autoclave capable of temps up to 600° F and pressure from -14 psi to 100 psi, four environmentally controlled lay-up rooms, one NDI Real Time X-Ray, one physical science laboratory, one NDI Automatic Ultrasonic Scanning System (AUSS), and one B-2 Advanced Composite Training Facility.

The 551st Commodities Maintenance Squadron also has a water jet capable of cutting up to 4 inch thick composite material and is planning on replacing it with a 6 axis cutter that will be capable of cutting up to 6 inches.

The 551st Commodities Maintenance Squadron also has an Advanced Laser Shearography system used for non-destructive inspection. Manufacturing and repair of composite components in support of B-1B, B-52, KC-135, E-3A, and Navy E-6A weapon systems are compatible of providing superiority second to none. Our key resource is our highly trained professionals. Our highly trained professionals make quality products on time and at affordable prices with customer satisfaction guaranteed.

The 551st Commodities Maintenance Squadron supports a modern Sheetmetal facility that is responsible for overhaul and repair of over 400 different secondary aircraft structures for the B-1, B-52, KC-135, E-3, and E-6 aircraft. A major effort is underway to standardize repair operations for the KC-135 flight controls resulting in fewer configurations, less PDM repair and longer time on the wing.

The 551st Commodities Maintenance Squadron supports Programmed Depot Maintenance (PDM) and MISTR workloads which support all aircraft weapon systems maintained at Tinker Air Force Base. The non-bonded Sheetmetal facility repairs and overhauls over 400 different secondary aircraft structures for the B-1, B-2, KC-135, E-3 and E-6 aircraft. A major effort is currently underway to standardize repair operations on KC-135 flight controls resulting in fewer configurations, less PDM and field level repairs, and to allow longer time on the wing.

Along with this flight control program, the 551st Commodities Maintenance Squadron is transforming by leaning all shops to create a modular flow which will increase throughput, lower flow days, and improve support to the war fighter.

## **LINEAGE**

551<sup>st</sup> Commodities Maintenance Squadron

## **STATIONS**

Tinker AFB, OK

## **ASSIGNMENTS**

## **COMMANDERS**

## **HONORS**

**Service Streamers**

**Campaign Streamers**

**Armed Forces Expeditionary Streamers**

**Decorations**

## **EMBLEM**

## **MOTTO**

## **NICKNAME**

## **OPERATIONS**

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Air Force Lineage and Honors

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Sources

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