# 311 HUMAN SYSTEMS WING


**MISSION**

**LINEAGE**
Aerospace Medical Division established activated and organized, 1 Nov 1961
Redesignated Human Systems Division, 6 Feb 1987
Redesignated Human Systems Center, 1 Jul 1992
Redesignated 311 Human Systems Wing, 1 Oct 1998
Inactivated, 2 Oct 2009

**STATIONS**
Brooks AFB (later, Brooks City-Base), TX, 1 Nov 1961-2 Oct 2009

**ASSIGNMENTS**
Air Force Systems Command, 1 Nov 1961
Air Force Materiel Command, 1 Jul 1992
Aeronautical Systems Center, 1 Oct 1998-2 Oct 2009

**COMMANDERS**
BG Theodore C. Bedwell Jr., 1 Nov 1961
BG Thomas H. Crouch, 10 Jan 1966
MG Charles H. Roadman, 16 May 1966
Col Evan R. Goltra (acting), 18 Aug 1970
MG Charles H. Roadman, 22 Sep 1970
MG George E. Schafer, 27 Feb 1971
Col William K. Douglas (acting), 14 Mar 1975
BG Howard R. Unger, 15 Apr 1975
BG Robert G. McIver, 3 Aug 1978

MG John W. Ord, 1 Feb 1980
MG Fredric F. Doppelt, 15 Oct 1984
MG George K. Anderson, 15 Dec 1990
BG Robert P. Belihar, 29 Jul 1994
BG John G. Jernigan, 8 Aug 1997
BG Lloyd E. Dodd Jr., 2 Aug 1999
BG Thomas W. Travis, 6 Feb 2003
Mr. Eric L. Stephens, 25 Aug 2005
Ms Jamie E. Hurley, Sep 2008-2 Oct 2009

**HONORS**
**Service Streamers**

**Campaign Streamers**

**Armed Forces Expeditionary Streamers**

**Decorations**
Air Force Outstanding Unit Awards
1 Jan-31 Dec 2000
1 Jan-31 Dec 2001
1 Jan-31 Dec 2002
1 Jan-31 Dec 2003
1 Jan-31 Dec 2004
1 Jan-31 Dec 2008

Air Force Organizational Excellence Awards
1 Jul 1984-30 Jun 1986
1 Dec 1988-1 Apr 1989
13 Dec 1990-1 Apr 1992

**EMBLEM**


Approved, 25 Sep 1974 and modified, 29 Mar 1994

**MOTTO**

**NICKNAME**

**OPERATIONS**

During the 1960s, the Aerospace Medical Division managed laboratories, a hospital, a clinic, and a school, conducting aerospace medical research, providing medical care to USAF personnel, and leading medical education programs. It conducted medical testing, not only for USAF personnel, but also for NASA astronauts in the Mercury program. In the 1970s, the division's mission responsibilities expanded to include occupational and environmental health oversight for the USAF. During the 1980s, the division's mission evolved beyond aeromedical research, to include development of biotechnology systems, and it relinquished its hospital and clinic responsibilities. During the Gulf War, the Human Systems Division provided technological support for U.S. troops in Southwest Asia, such as chemical warfare equipment. In the 1990s, as the Human Systems Center, it integrated and maintained people in USAF systems and operations, serving as the service's agent for human-centered research, development, acquisition, and specialized operational support. The 311 Human Systems Wing focused on aerospace medicine, environmental safety, and occupational health programs for the Air Force.

311th Human Systems Wing (311 HSW): The 311 HSW seeks to produce an overwhelmingly effective warfighter through cutting-edge human performance and global health. Located at Brooks City-Base, Texas, the 311th Human Systems Wing is the major USAF agency tasked with oversight, development, and training for the operational aspects of the Human Weapons System.

There are three major units in the 311 HSW heavily involved with HWS issues—the USAF School of Aerospace Medicine (USAFSAM), the Air Force Institute for Operational Health (AFIOH), and the Human Systems Program Office (YA).

Education. USAF School of Aerospace Medicine provides aerospace education and training for Team Aerospace through courses in Flight Medicine, Flight Nursing, Aerospace Physiology, Bioenvironmental Engineering, and Public Health, as well as the Advanced Aerospace Medicine for International Medical Officers course.

Clinical. The Force Enhancement Department within USAFSAM provides consultation and integration on the clinical aspects of Aerospace Medicine, including aeromedical consultation, aeromedical standards, hyperbaric medicine, and performance enhancement. AFIOH promotes global health and protects USAF warriors and communities by enhancing readiness and effectiveness. AFIOH develops creative solutions to operational health problems using numerous tools including environmental and health surveillance, risk analysis, process re-engineering, consultation and technological innovations.

Acquisition. The 311 HSW/YA is the USAF's Human Systems Program Office. YA acquires equipment, services, and systems to support the human in the loop for all weapon systems. This office interfaces with all other weapon systems program offices, USAF major commands, and sister services, and allied air forces. It ensures procured items will support the HWS in the operational environment.

Research. 311 HSW collaborates in HPE research to develop new equipment and training that improves the human-machine interface in areas such as the following: Major weapon system acquisition such as the F/A-22 Raptor, F-35 Joint Strike Fighter, and Remotely Piloted Aircraft (issues such as life support and pilot-vehicle interface).

In collaboration with the Air Force Research Laboratory, research in acceleration, spatial disorientation countermeasures, and fatigue countermeasures, including pharmacological interventions.

The wing combines AFRL's Human Effectiveness Directorate (RH) with elements transitioning to Wright-Patterson AFB from the 311th Human Systems Wing (311 HSW) at Brooks City-Base, Texas--the United States Air Force School of Aerospace Medicine (USAFSAM), the Air Force Institute for Operational Health (AFIOH) and the 311th Performance Enhancement (PE) Directorate.

"We have a rare opportunity to consolidate, reorganize, and revitalize one of the finest labs in the world for human performance research and aerospace medicine," said Major Gen. Curtis M. Bedke, AFRL commander. "Working together, I know we will do just that."

Thomas S. Wells, a member of the senior executive service, was named director of the new wing on February 29 and officially accepted command today during a traditional military flag exchange held at the Air Force Institute of Technology's Kenney Hall.

"Fortunately for us, we found the right guy to be the first wing director in Mr. Tom Wells," Gen. Bedke told a crowd of about 350, noting that "integrating science and technology with medically

oriented functions seems like a daunting task, but I know that the men and women of AFRL are ready to handle any challenges we encounter."

The Department of Defense 2005 Base Realignment and Closure (BRAC) mandated that the 311th HSW functions from Brooks City-Base relocate to Wright-Patterson. Also under BRAC law, the RH Warfighter Readiness Research Division from Mesa, Arizona will join other RH divisions at Wright-Patterson by 2011.

The HPW is an organizational structure related to BRAC but not required by law. In conjunction with the Navy Aerospace Medical Research Laboratory--which is relocating to WPAFB from Naval Air Station Pensacola, Fla.--and surrounding universities and medical institutions, the HPW will function as a joint DoD center of excellence for human performance, operating in a university model of education and training, research and development, and operational evaluation and consultation.

Air Force Chief of Staff T. Michael Moseley had formally approved the plan on January 20, capping the preparation phase of a three-phase HPW implementation process.
AFRL officials held concurrent ceremonies today at Wright-Patterson and Mesa to commemorate the event. A separate ceremony is planned for March 28 at Brooks City-Base, Texas. Under the new structure, AFIOH at Brooks City-Base will deactivate and its functions be absorbed into USAFSAM, and the Performance Enhancement Directorate will be renamed Human Systems Integration.

The 311th HSW will remain active at Brooks City-Base until the Air Force missions there have been relocated.

History buffs will note that the Air Force redesignated the inactive Harry G. Armstrong Aerospace Medical Research Laboratory (AAMRL) as the 711th HPW and activated it as one of ten entities now within AFRL. The new wing's emblem is the historic AAMRL patch with wording revised to reflect the merger of the RH science and technology mission with the aerospace medical and human systems integration missions.

The 711 HPW could eventually bring an additional 500 military, 350 civilian, and a corresponding number of contractor jobs to Wright-Patterson and the Dayton, Ohio area. In addition, USAFSAM will cycle more than 5,000 aerospace medicine students to the Dayton region yearly.

AMD conducts bioastronautics research and development in support of aerospace programs, the USAF personnel system, clinical and aerospace medicine, and provides specialized educational programs in aerospace medicine.

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USAF Unit Histories
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Sources
Air Force Historical Research Agency. U.S. Air Force. Maxwell AFB, AL.