



V-PAR

Vertical Procedures and Analysis Range

What It Is

The Vertical-Takeoff-and-Landing Procedures Analysis Range (V-PAR) is a critical new Advanced Air Mobility test asset embedded in the Mike Monroney Aeronautical Center (MMAC), which is the FAA's primary training, research and certification hub.

V-PAR's mission is to accelerate the safe, secure and scalable integration of emerging aviation technologies. The facility brings together operational infrastructure, regulatory personnel, human factors laboratories, procedure experts and simulation capabilities in one location.

By combining real-world flight testing, data analysis, standards development and workforce training on a single campus, V-PAR will support more efficient integration efforts and advance the FAA's safety management priorities.

The facility will include a touchdown and liftoff area, a taxiway, and an observation and operations facility, along with other infrastructure to support testing and research.

V-PAR is located on the west side of the MMAC campus, adjacent to Will Rogers World Airport and near existing radar and aviation infrastructure.

Why It Matters

V-PAR will give the FAA and its partners a dedicated location for:

- Flight testing
- Data analysis
- Standards and procedure development
- Human factors research
- Workforce training



Project Timeline

- **Fall 2021:** Initial concept studies began
- **Spring 2024:** Congress appropriated an initial \$6 million for the project
- **Summer 2024:** FAA awarded the design contract to C.H. Guernsey; Heliplanners provided vertiport expertise
- **October 2025:** Design work completed
- **March 2026:** Construction contract awarded to Maguire O'Hara Construction for \$8.3 million
- **June 2026:** Groundbreaking ceremony
- **Summer 2027:** Construction scheduled for completion

Facility Features



The initial V-PAR buildout will include:

- A touchdown and liftoff area
- A taxiway
- A verticraft apron with two parking spaces
- A covered verticraft shelter
- An observation and operations facility
- Electric aircraft charging capability
- Lighting, utilities and supporting infrastructure for air and ground operations

Research and Training Uses



V-PAR will support research and training related to:

- Vertiport operations
- Arrival and departure routes
- Wake turbulence, downwash and outwash
- Radiofrequency interference
- Airspace and operational procedures
- Emergency planning and flow simulations

Looking Ahead

Future expansions may include additional landing sites, expanded charging capability, a secondary vertipad, a short takeoff and landing runway, and other infrastructure.

