

UAV CERTIFICATE OF AUTHORIZATION SERVICES

Flint Hills Solutions offers turnkey **Certificate of Authorization (COA)** technical services to the Unmanned Aerial System Defense, Commercial and Public markets that desire to fly in a Federal Aviation Administration (FAA) approved air field in the National Airspace System (NAS).

COA LOCATION ASSESSMENT



OUR COA PROCESS INCLUDES THE FOLLOWING THREE MAJOR AREAS AS REQUIRED BY THE FAA:

1. **UAV Airworthiness Evaluation and Certification:** The Unmanned Air Vehicle (UAV) Airworthiness Evaluation and Certification process establishes performance characteristics and system descriptions to develop a detailed system overview and airworthiness evaluation.



2. **Personnel and Operations Qualification:** Flown by FHS Personnel, our Operation Qualification process evaluates the UAV flight characteristics of the candidate UAV and Ground Control Systems. This includes the documentation of maintenance, Air Vehicle Operators and Mission Payload Operator checklists, safety and emergency procedures processes.



3. **COA Location Assessment:** The COA Location Assessment develops specific COA locations and air space parameters for UAV operations that will be conducted in the NAS. Our process can start with obtaining a COA either at your selected UAS field or at one of our Kansas fields including:

1. Flint Hills Aero park – a 2500 ft grass runway
2. Crisis City – a National Emergency Response Training Center
3. El Dorado Airport – two 4200 ft paved runways are available



Crisis City



Flint Hills Aero Park

OUR OVERALL COA PROCESS:

Phase 1 - PERFORM CRITICAL FLIGHT TESTING AND SAFETY ANALYSIS: FHS can utilize an 80 square mile restricted Smoky Hill Range in Kansas, outfitted with UAV facilities including 1200 foot grass strip runway. This area provides initial critical flight testing and is conducted per a pre-approved Flight Test Card process. Flight Test data is collected and checked for compliance with aircraft parameters and safety requirements.

Phase 2- COLLECT TECHNICAL INFORMATION: FHS collects and documents all necessary information for the COA application and prepare the UAV Airworthiness Certificate.

Phase 3 - APPLY FOR COA: COA application is submitted and then we monitor/respond to FAA questions on COA application.

Phase 4 – COA Flight Operations and Training: Once the COA is approved, FHS will conduct an initial flight test over the COA area to **VALIDATE, VERIFY, AND TRAIN** the operations team based upon the COA limitations as directed by the FAA. We also prepare the required monthly reports to the FAA and reapply for the annual COA renewal.



El Dorado Airport



El Dorado Airport