

HF009 - AJW-3 Project #1 Fleet Assessment/Modernization Study

PROJECT AT-A-GLANCE

- UNIVERSITY: Embry – Riddle Aeronautical University
- PRINCIPAL INVESTIGATOR(S): Dr. Massoud Bazargan
- STUDENT(S): Marissa Pecora, Ziyi Huang and Nidhi Tambadia
- INDUSTRY PARTNER(S): None

RELEVANCE TO TECHNICAL TRAINING AND HUMAN PERFORMANCE

- The project entailed identifying best fleet mix to support all FAA's four missions by acquiring/leasing new and pre-owned aircraft and retiring existing fleet.

STATEMENT OF WORK

- A comprehensive analysis of current fleet composition in relation to mission needs and requirements .
- Recommendations on fleet mix, acquisition and retiring strategies for existing fleet within budget.
- Multi criteria fleet selection including support for missions, OEM support, avionics, cost and leasing options.
- Reduced fleet diversity



STATUS

- The project ended in May 2019. Reports and presentations were submitted to the sponsor.

FUTURE WORK

- The second phase of this project was funded in Oct 2019. Scope of work for the second phase include:
 - Integration of new fleet.
 - Maintenance planning and supportability for existing and new fleet.
 - Manpower planning.