

UAT-ARC Overview & Recommendations

Modified Presentation Given by Mark Rumizen to MOD on 2/29/12

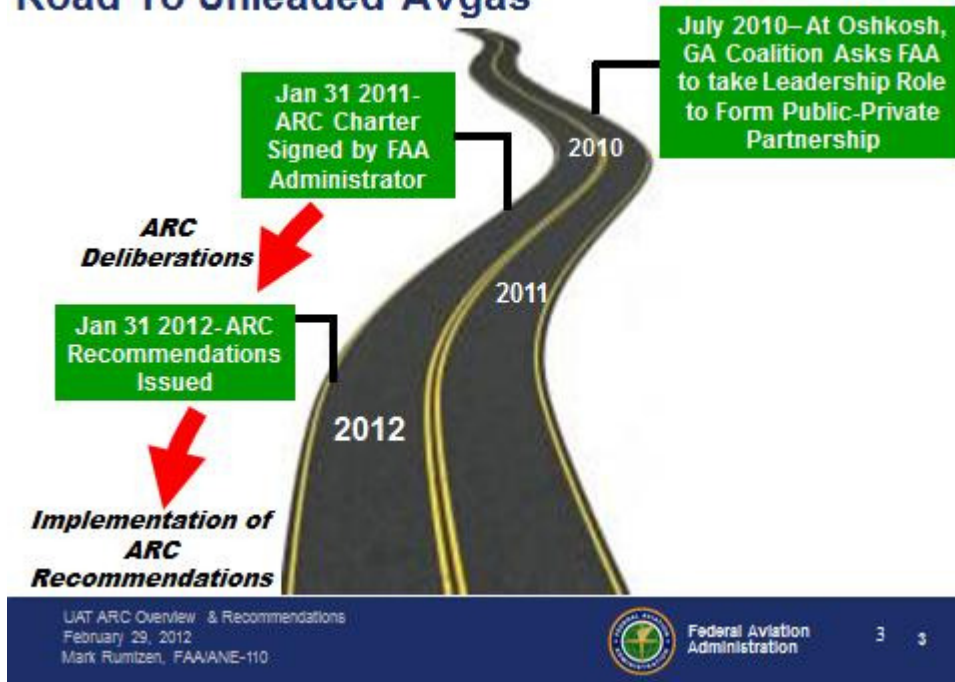
Presented to: Unleaded Avgas Labeling & Marking Group
By: Roger Gaughan
Date: September 25, 2012

Federal Aviation Administration

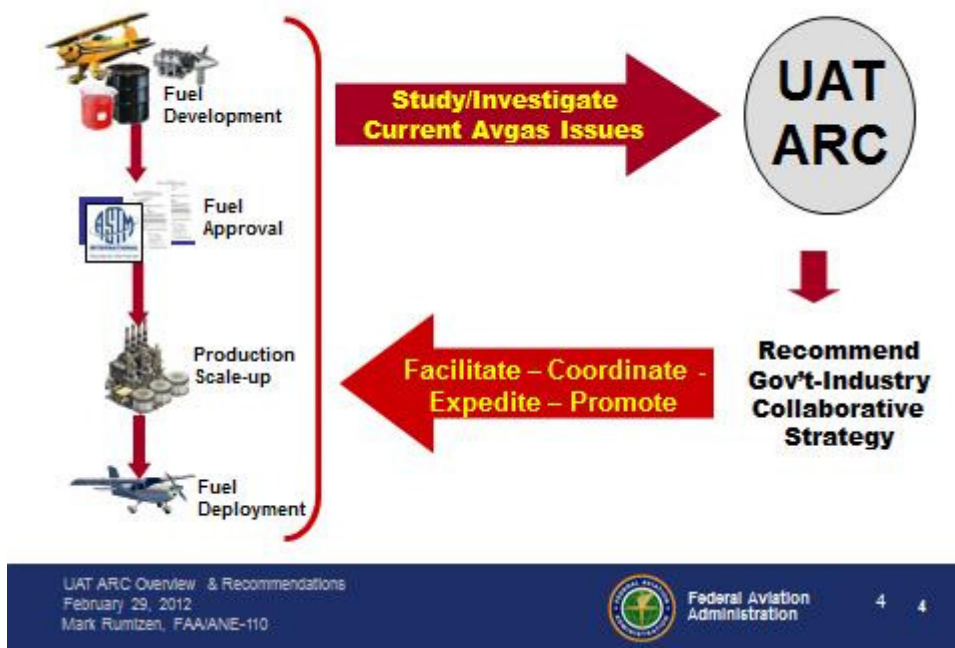
UAT-ARC Charter

- Provide advice and recommendations to FAA
- Provide recommendations for an industry-government framework and plan to facilitate the development and deployment of unleaded Avgas
- End product is a written report to FAA with recommendations on how to proceed

Road To Unleaded Avgas



Basic Concept for UAT ARC Process



UAT-ARC Membership

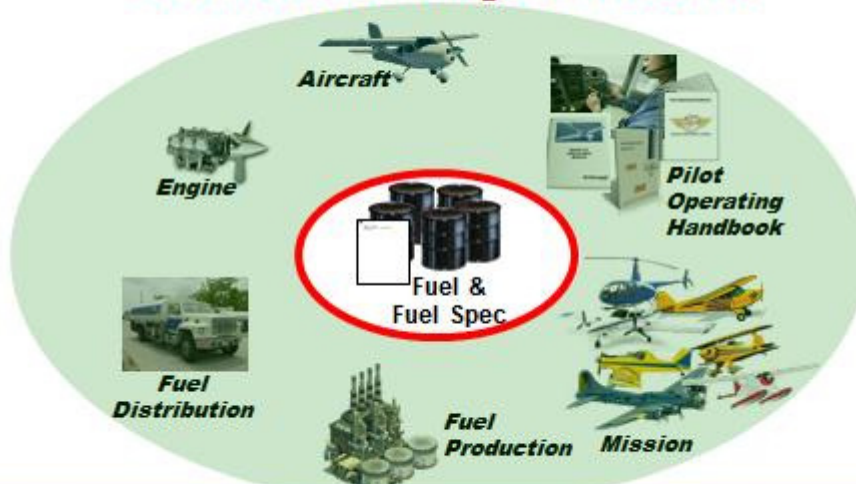
Leadership	✓	FAA Certification, Industry Consultant
Certification	✓	FAA Certification
Manufacturers	✓	GAMA, Cessna, Cirrus, Continental, Lycoming
Environment	✓	EPA, FAA Environment & Energy
Distribution	✓	NATA
R & D	✓	FAA Tech Center
Petroleum Industry	✓	API
Owners /Operators	✓	AOPA, EAA, Clean 100
Fuels	✓	ExxonMobil, Shell Aviation, Swift, GAMI

Key Industry Stakeholders Represented



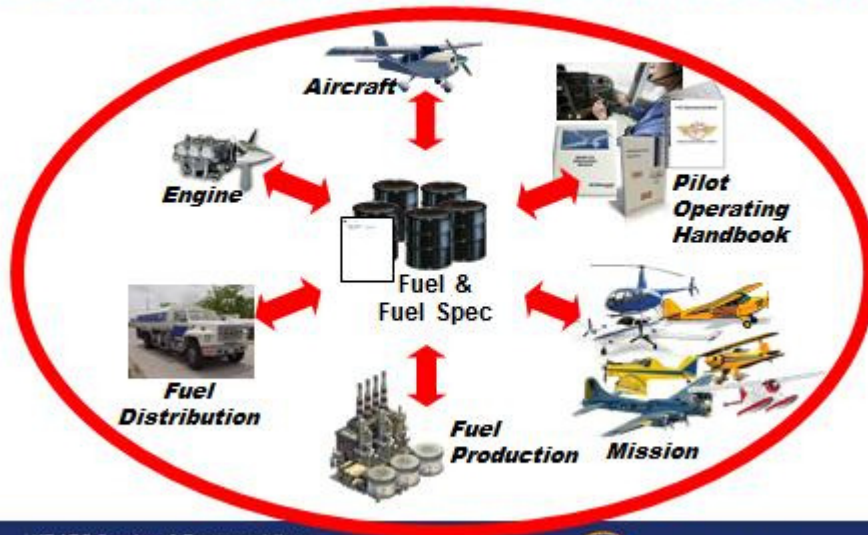
Drop-In Fuel

Plugs Into Existing Aviation Safety Infrastructure
Focus on Evaluating ONLY the Fuel



Non-Drop-In Fuel

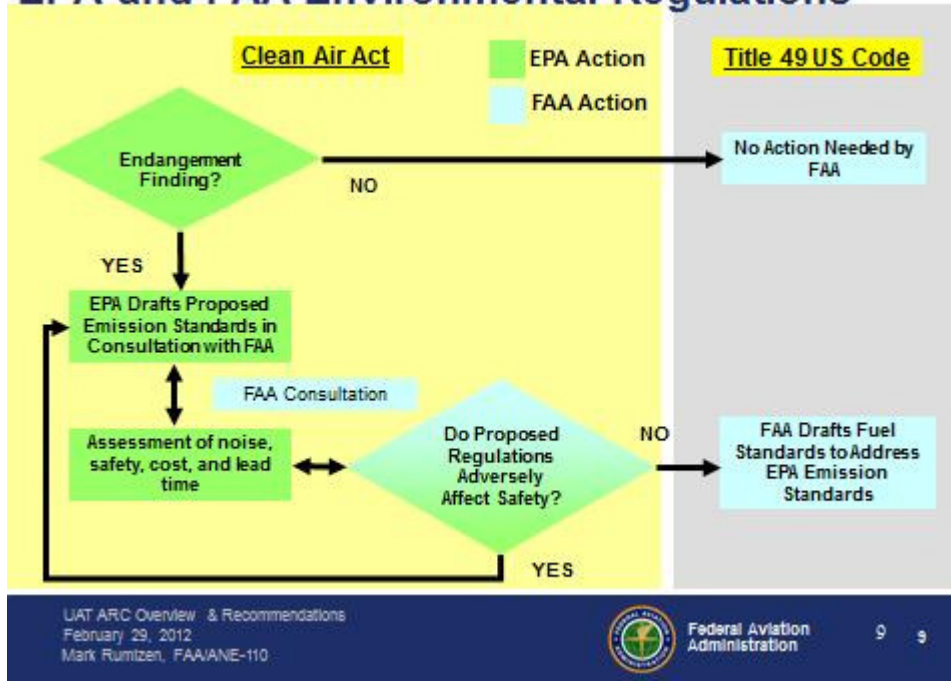
Must Consider Entire Aviation Safety Infrastructure



Considerations Beyond Aviation Safety Infrastructure



EPA and FAA Environmental Regulations



UAT ARC Final Report

Current Climate

- **Uncertainty**
 - Avgas Issues Have Generated Uncertainty and Concern Regarding Future Utility and Value of Existing Aircraft
- **Urgency**
 - Avgas Issues Have Created a Sense of Urgency Regarding the Need for Unleaded Avgas

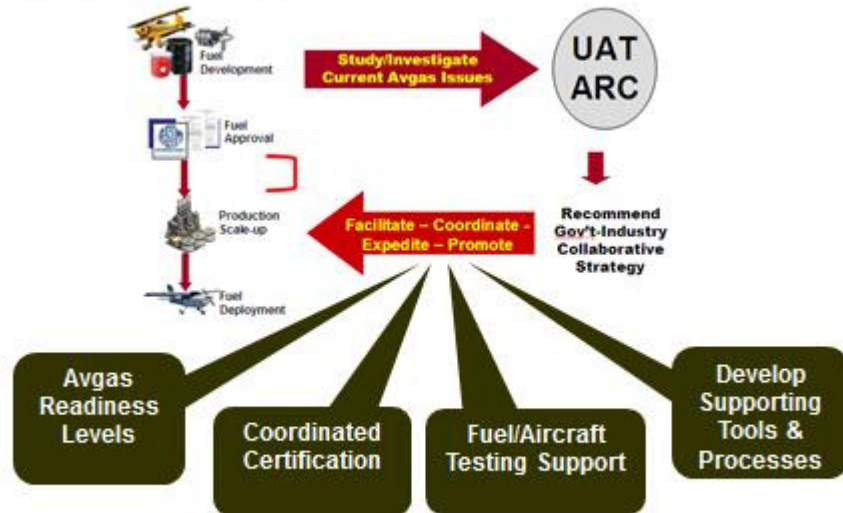


Key Issues

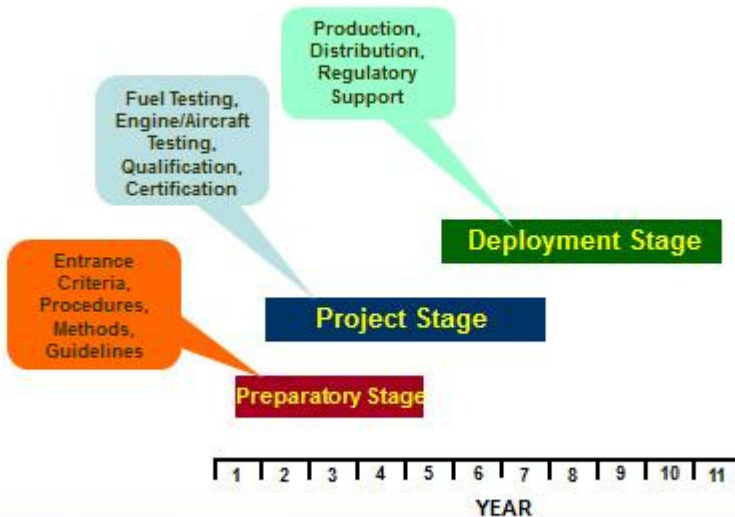
- **No 'drop-in' unleaded replacement for 100LL**
- **No program for fleet-wide introduction of replacement Avgas**
- **No Market driven reasons to introduce a replacement fuel**
- **No FAA policies or test procedures for fleet-wide certification of a replacement unleaded fuel**
- **No standardized communication method to industry and end-users**



Key Concepts



Gov't-Industry Collaborative Initiative Timeline



Status

- **Final Report Published**
 - FAA Management Review Process Completed and Report Issued
- **FAA Created A New Office**
 - Fuels Program Office Located in Boston



What's Next ?

- **Key Decision Items**
 - Identify Start-up Activities & Resource Requirements
 - PAFI Organization
 - Initial Technical Tasks
 - Evaluate Long-Term Organizational & Funding Impacts
 - FAA Budget
 - Industry Support

