Unleaded Avgas Transition

The National Academies
Aeronautics and Space Engineering Board

Irvine, CA
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Destination2025

Move to the Next Level of Safety

Deliver Aviation Access through Innovation

Advance Global Collaboration

Create Our Workplace of the Future

Sustain Our Future

Aspirations

Vision

The safest, most advanced and efficient and sustainable aviation system in the world

Outcomes

To develop and operate an aviation system that reduces aviation’s environmental and energy impacts to a level that doesn’t constrain growth and is a model for sustainability.

Performance Metrics

3 - Aviation emissions do not contribute to significant adverse health impacts.

4 - Aviation’s carbon footprint does not become a constraint to growth.

A replacement fuel for leaded aviation gasoline is available by 2018 that is usable by most general aviation aircraft.

One billion gallons of renewable jet fuel is used by aviation by 2018.
FAA Support of Unleaded Avgas Transition

- UAT Aviation Rulemaking Committee (UAT ARC)
- FAA Reauthorization Bill Line Item
- Fuels Program Office
Jan 31 2011- ARC Charter Signed by FAA Administrator

ARC Deliberations

Jan 31 2012- ARC Recommendations Issued

Implementation of ARC Recommendations

July 2010– At Oshkosh, GA Coalition Asks FAA to take Leadership Role to Form Public-Private Partnership
Basic Concept for UAT ARC Process

Study/Investigate Current Avgas Issues

Facilitate – Coordinate - Expedite – Promote Unleaded Fuels Thru The Process

Recommend Gov’t-Industry Collaborative Strategy
UAT ARC Key Recommendations

1. Study/Investigate Current Avgas Issues
2. Recommend Gov’t-Industry Collaborative Strategy
3. Facilitate – Coordinate Expedite – Promote Unleaded Fuels Thru The Process

- Roadmap of Fuel Dev & Deployment Process
- Centralized Certification
- Fuel/Aircraft Testing Support
- Develop Supporting Tools & Processes
UAT ARC Final Report Available to Public At:


FAA Reauthorization Bill Line Item

• **2012 FAA Modernization and Reform Act**
  – Legislation Enacted in February, 2012
  – Establishes FAA Programs and Associated Funding

• **Section 910**
  – Aviation Fuel Research and Development Program
  – Support qualification of an unleaded aviation fuel
  – Support safe transition to this fuel
  – Assess Certification Methods
  – Assess Engine Technologies Necessary to Operate with Unleaded Avgas
  – Recommend Policies and Guidelines to Support Transition
  – Collaborate with Industry Groups and Other Federal Agencies
Fuels Program Office

• **AIR-20**
  – Top Level Aircraft Certification Office
    • Reports Directly to Service Director

• **Established in September, 2012**

• **Assigned Responsibilities**
  – Oversee implementation of the UAT Action Plan
  – Standardization of avgas regulations, policy and certification
  – Centralize expertise for fuels certification programs.
  – Coordinate research and development activities
Thank You… Questions?

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