100LL Transition

Where are we now?
Will we meet the 2030 goal?

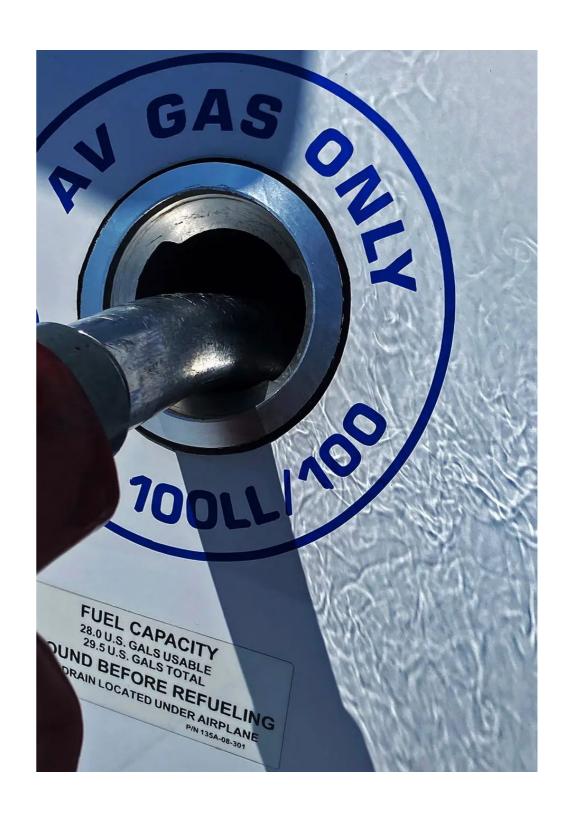


Adam White Government Affairs

100LL Transition

Common <u>Misconceptions</u>

- 2030 is a deadline.
- The EPA can ban 100LL.
- EAGLE has authority.
- FAA will pick one "winner."
- Alaska will be exempt.
- "Direct, Drop-in Replacement"
- "It can't be this hard!"
- "Politics have nothing to do with this."



100LL Transition

The Current Plan

- What is an EPA Endangerment finding?
- Who has the authority to ban leaded aviation fuel?
- Where did the 2030 date come from?
- Piston Engine Aviation Fuels Initiative (PAFI-2014) vs. STC
- Will there be one fuel or many?
- We quit using leaded fuel in cars back in the '70s. Why is this so hard?

EAGLE

Eliminate Aviation Gasoline Lead Emissions

The EAGLE initiative is a comprehensive public-private partnership consisting of the aviation and petroleum industries and U.S. government stakeholders, and a wide range of other constituents and interested parties, all working toward the transition to lead-free aviation fuels for piston-engine aircraft by the end of 2030 without compromising the safety or economic health of the general aviation industry.

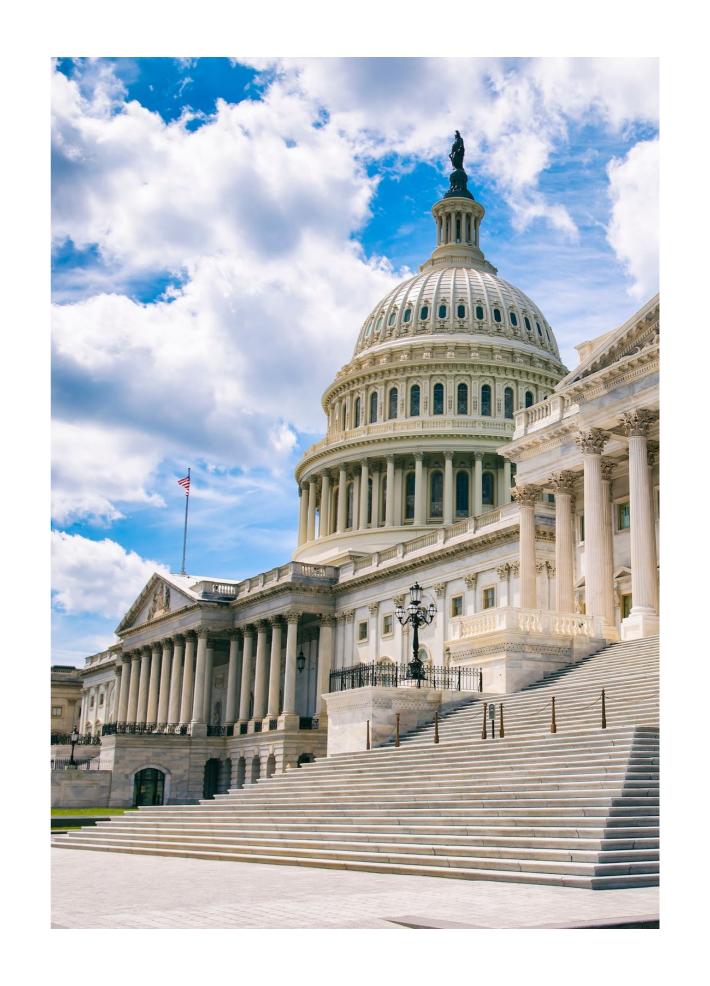




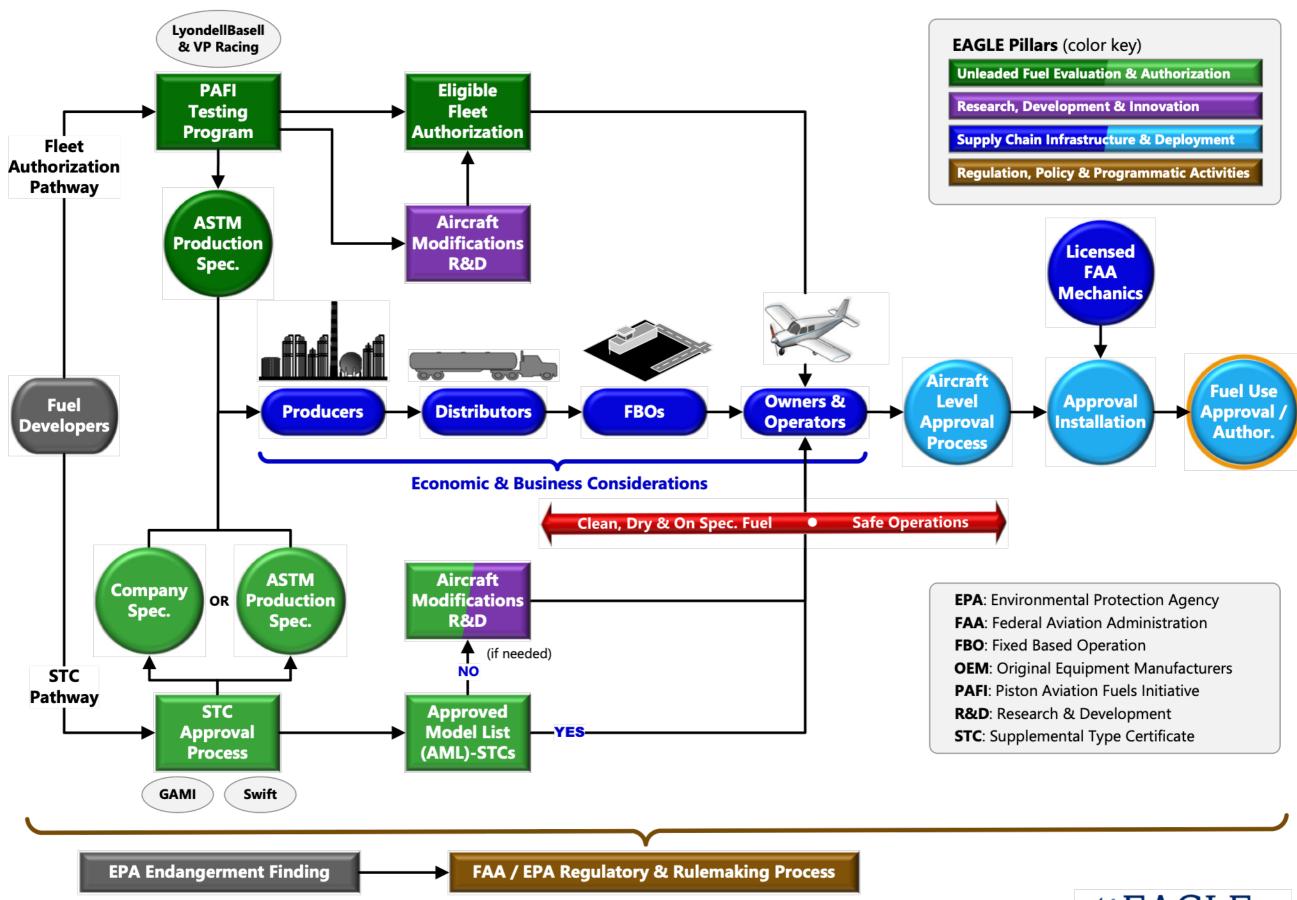
2030

Does this affect Alaska?

- Congressional Delegation tried to help.
- 2032 is the goal now for Alaska
- What is the practicality of the extension?
- What about California's recent legislation?



Transition to Unleaded Aviation Gasoline "Big Picture"



Who is still in the running?

And where they are in the process.

• GAMI

- STC for all piston-power fixed-wing aircraft (Helicopter coming soon)
- Will not participate in the ASTM process
- Oshkosh Conspiracy

• Swift

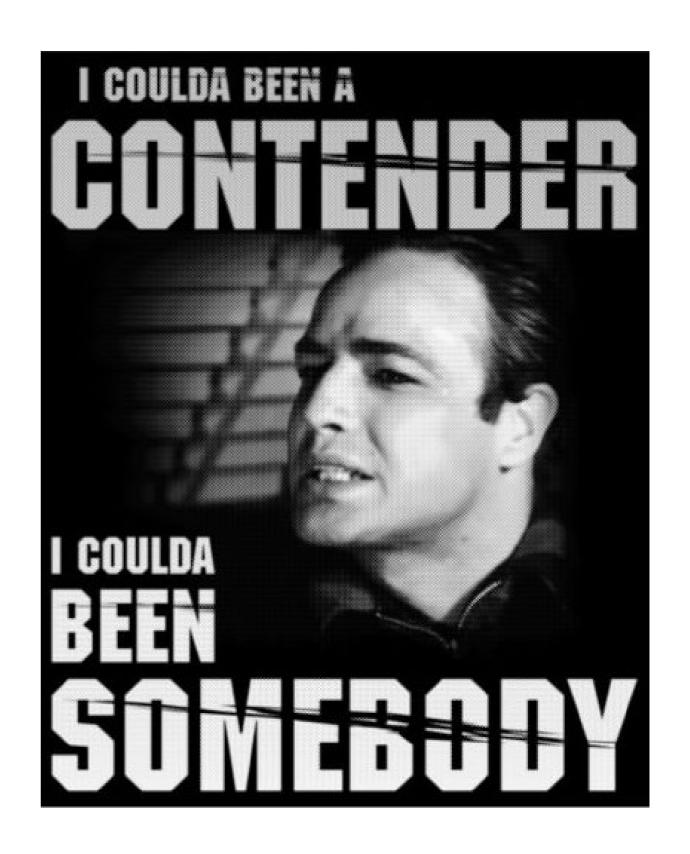
- UND valve problems with UL94
- 100R Fuel & 172R, 172S STC
 - Going through the ASTM process

VP Racing

- UL100E
- PAFI Route (Fleet Approval)
- In full-scale testing

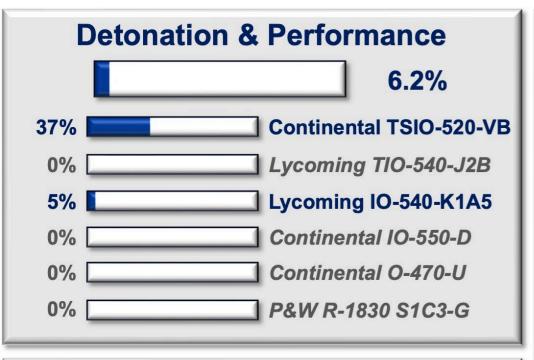
Lyondell Basell

Dropped out of PAFI but might be back

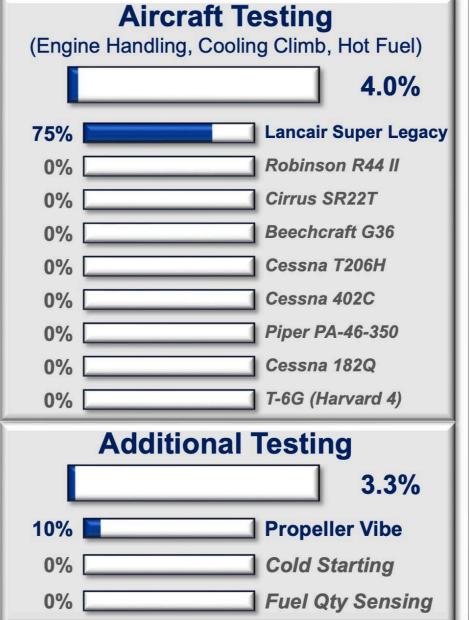


PAFI GATE 4 – UL100E Full Scale Testing Status as of 12-Jul-2024





Durability & Performance (150 Hr. § 33.49 + 200 Hr. flight duty cycles) 25.0% 350 hr Continental TSIO-550-K 0 hr Lycoming IO-360-C1F 0 hr Air Repair W670-6N 0 hr Lycoming O-360-A1A





My Concerns,

Fears, Worries, Conspiracy Theories, etc...

- Long-term Material Compatibility
- Blending Compatibility With Other Fuels
- Health and Ecological Hazards
- Supply Chain and Distribution Challenges of Alaska
- The Best Marketing Firm Wins
 The Race
- L48 Makes The Decision For Alaska
- Drop-in, Direct Replacement
- Tetraethyl Lead Supply

NOAH WAS A CONSPIRACY THEORIST...



Drop-In Fuel

EAGLE's Definition

A "drop-in" fuel does not affect the airworthiness and performance of the existing aircraft and engines and typically does not require new aviation fuel-related operating limitations. An extensive qualification test program that encompasses fuel property evaluation and engine and aircraft testing would be required to determine if a new fuel is a drop-in.



Monthly Advocacy Updates

Every 3rd Tuesday at 6pm on the Airmen's YouTube channel



