

# ASTM Alternative Jet Fuel Task Force Overview

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**Federal Aviation  
Administration**



# Airworthiness Regulations For Aviation Fuel

**Regulatory Authorities Do Not Certify Fuel, They Certify Airplanes and Engines to Operate on Specified Fuel**



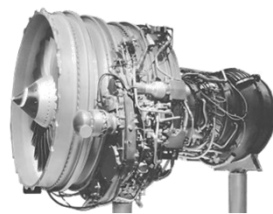
## Aircraft Operator (Airlines) Operating Rules

- Must Adhere to Aircraft and Engine Limitations



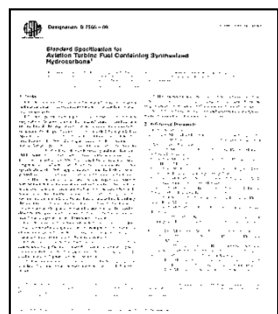
## Aircraft Operating Limitations

- Engine limitations Used for Aircraft



## Engine Operating Limitations

- Fuel Specification



## ASTM Fuel Specification

# Integrated ASTM/FAA Approval Process

## ASTM Qualification (D4054)



D7566 New Annex  
Drop-In Fuel



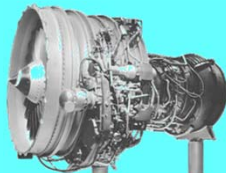
New Spec  
Non-Drop-In  
Fuel

Unchanged  
Operating  
Limitation

New Oper Limitation

Approved for  
Commercial Operations

## Airworthiness Certification



Re-Certify All Engines



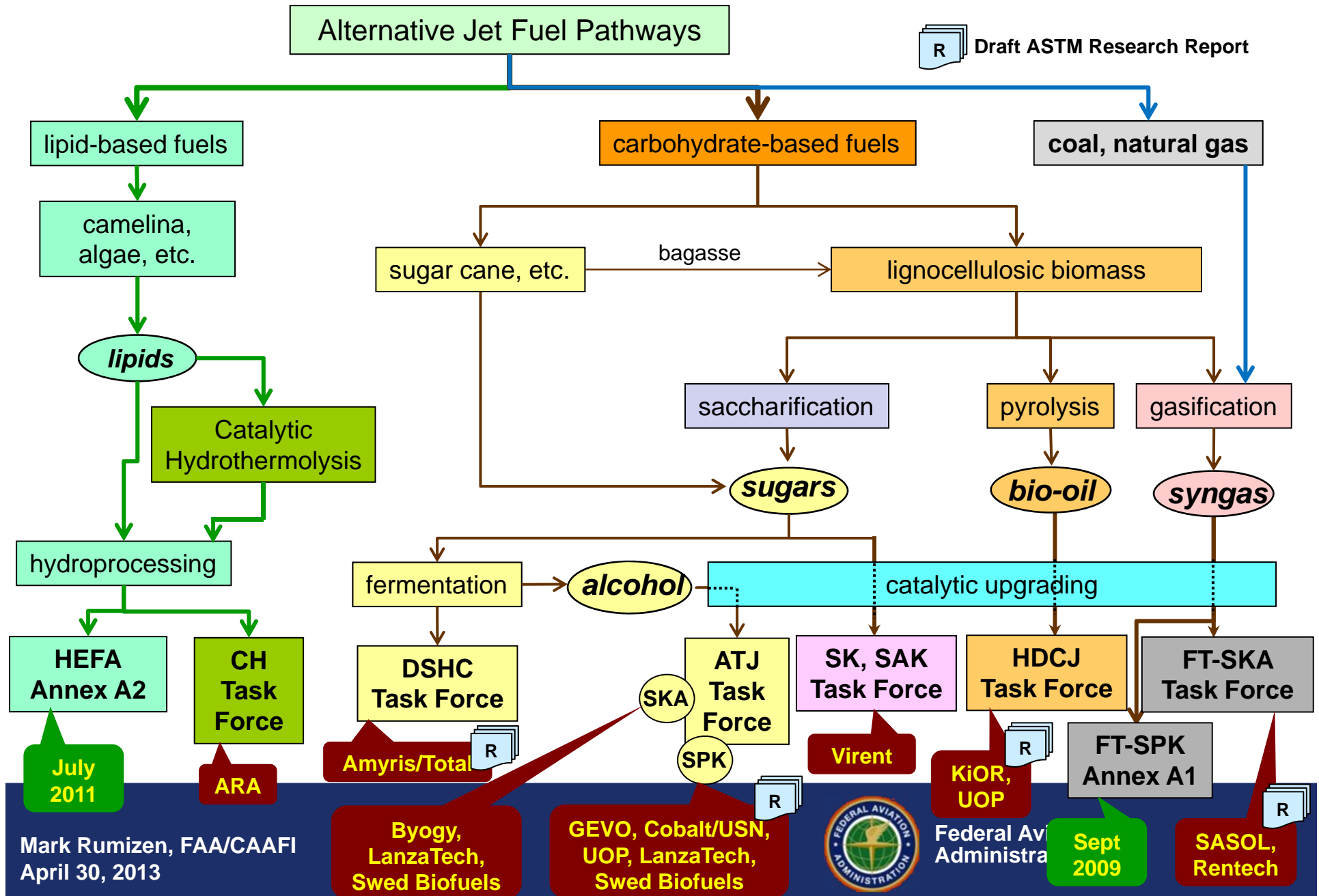
Re-Certify All Aircraft



Approved for Airline  
Operations

# ASTM D7566 TASK FORCES

Adapted from Brown, Iowa State, 2012  
and Tim Edwards, USAF/AFRL



# Thank You



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