EPA Presentation to the Boutique Fuels Task Force

May 12, 2006

Contents

- Fuel Types in the U.S.
- Range of Existing Fuel Programs
- Fuel Map
- State Interest in Boutique Fuels
- Fuel Supply and Distribution Issues
- EPA's 2001 Boutique Fuels Study
 - What was studied
 - Conclusions
- Energy Policy Act of 2005 (EPAct) Provisions Related to Boutique Fuels
- Questions for Task Force

Fuel Types in US

Federal fuels

- Required nationwide or across significant portions of the country
- Examples: ULSD, low-sulfur gasoline, federal Reid Vapor Pressure (RVP), reformulated gasoline (RFG)

Boutique fuels

- Definition special fuels required by states for purposes of meeting air quality goals
- Adopted under state law and approved by EPA as part of SIP
- Currently 12 states have 15 boutique fuel programs meeting this definition

Other unique fuels

- State or area-specific fuels required by law for reasons other than air quality
- Examples: EtOH mandates (MN); MTBE bans

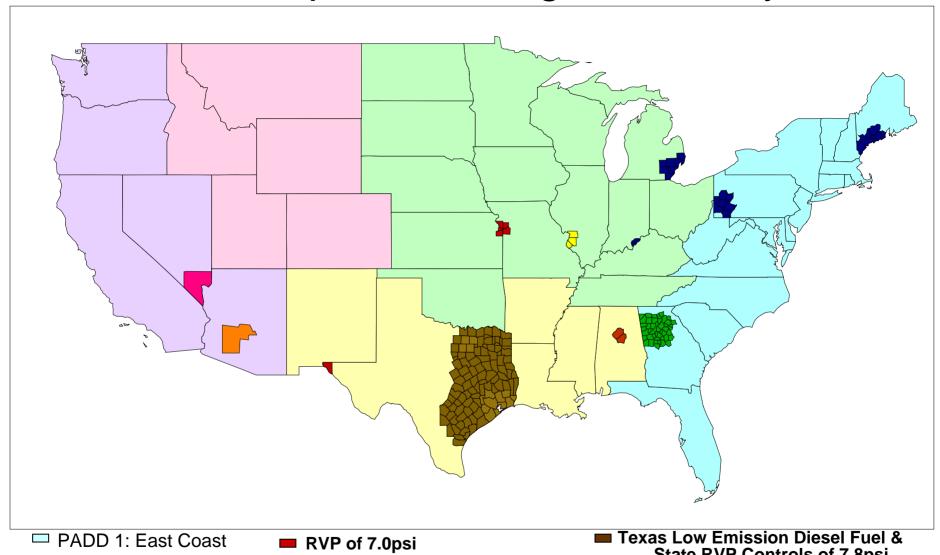
Legal Authority for Boutique Fuels: Preemption and Waivers

- Under 211(c)(4)(A) of the Clean Air Act, states are generally barred from prescribing any control of a fuel or fuel additive if EPA has promulgated such a control.
- Two exceptions: 1) If the control is identical and/or, 2) California has authority to place further controls otherwise preempted.
- States may prescribe and enforce preempted fuel controls as a SIP measure if EPA <u>waives</u> preemption. Section 211(c)(4)(C).
- EPA may waive preemption if the state control or prohibition is "necessary to achieve" the NAAQS which the plan implements.
- "Necessary to achieve" is demonstrated if: 1) no other measures exist that would bring about timely attainment or 2) other measures exist but they are unreasonable or impracticable. CAA § 211(c)(4)(C).
- EPAct Provisions discussed below implement new limitations.

State Interest in Boutique Fuels

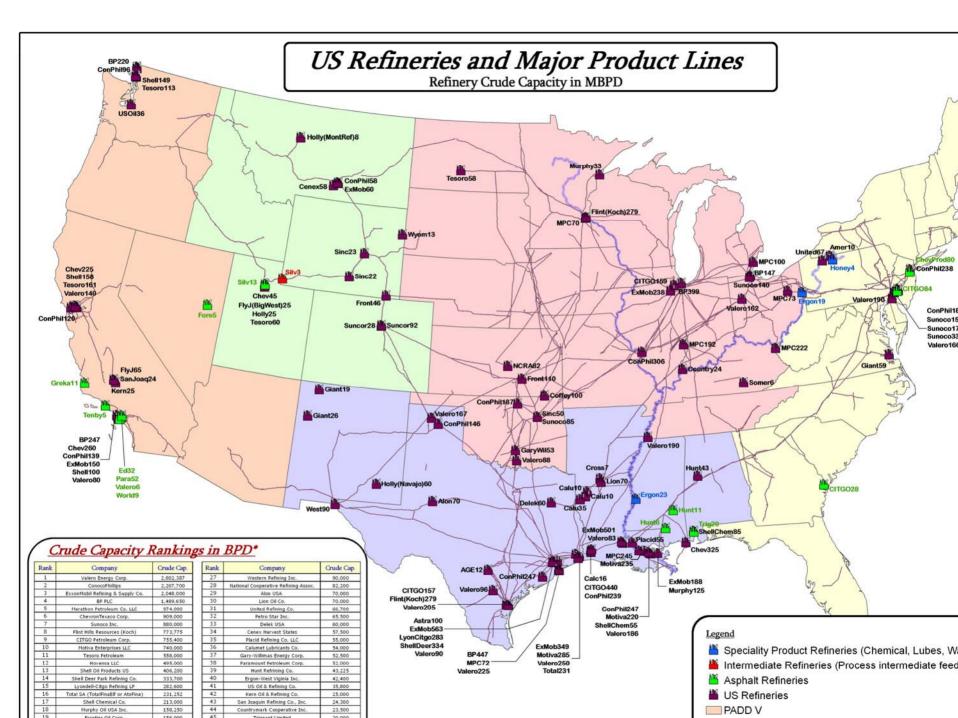
- All current boutique fuels based on volatility except Texas's LED, a few have additional controls
- Local fuel programs have provided significant public health benefits at minimal cost
 - Current programs yield approx. 2-26 tpd VOC
 - Atlanta currently at 43 tpd
 - Inventory benefits being updated to reflect impact of new programs
 - Production cost is pennies: 0.3 3 cents per gallon
- Many programs adopted with local stakeholder support
- California has separate authority to have own fuel programs

State Boutique Fuel Programs – May 2006



- □ PADD 2: Midwest
- PADD 3: Gulf Coast
- PADD 4: Rockies
- PADD 5: West Coast
- **RVP of 7.0psi w/Sulfur Content**
- RVP of 7.2psi
- RVP of 7.8psi

- **State RVP Controls of 7.8psi**
- **Texas Low Emission Diesel and** Federal RFG or RVP Control
- **Cleaner Burning Gasoline**
- Winter Gasoline



EPA's Boutique Fuels Study

- Completed in late 2001
- General Findings & Conclusions:
 - Need for greater flexibility in programs addressing transition from winter to summer gasoline
 - Distribution system is able to move adequate supplies as long as no disruption occurs (refinery fires, pipeline breaks, etc.)
 - Current number of fuels may constrain distribution in time of disruption

EPA 2001 Boutique Fuels Study

EPA evaluated a range of options covering the breadth of recommendations from the various stakeholders

- Menu of 3 fuels program (Fed RFG, Low RVP, or conventional gasoline)
- Menu of 2 fuels program (Fed RFG or conventional gasoline)
- Nationwide Clean Burning Gasoline (CBG)
- Nationwide California CBG

EPA 2001 Boutique Fuels Study

- Options were evaluated two ways:
 - Maintaining the oxygenate mandate
 - Replacing it with a nationwide renewable fuel requirement
- Options were analyzed with and without a national benzene standard
- EPA evaluated the options for their impact on:
 - Distribution system complexity
 - Air quality
 - Supply
 - Cost

2001 Study Results - Impact of Fuel Options

(↑ indicates benefit, ↓ indicates detriment, - - indicates negligible impact)

Option	RFG/ Renewable Mandate	Ease of Distribution	Gasoline Production Capacity	Long Term Cost	Air Quality Impact
3-Fuel	Yes/No	\uparrow			<u> </u>
	No/Yes	$\uparrow \uparrow \uparrow$	\uparrow		\uparrow
2-Fuel	Yes/No	\uparrow	\uparrow	∜ (higher price)	↑↑
	No/Yes	$\uparrow \uparrow \uparrow$	\uparrow		介介
Federal CBG	No/Yes	介介介	$\downarrow \downarrow \downarrow$	$\downarrow \downarrow \downarrow$	$\uparrow \uparrow$
California CBG	No/Yes	介 介介	$\downarrow\downarrow\downarrow\downarrow$	###	↑ ↑↑

2001 Study: Bottom Line Conclusions

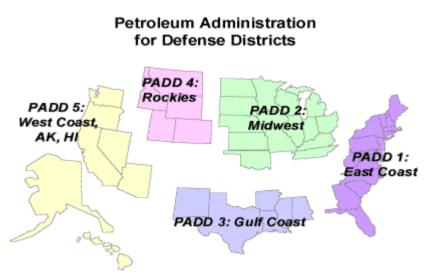
- Boutique Fuels do not generally constrain the gasoline system, unless there are disruptions
- Fewer fuel types will directly improve fungibility
- Options exist which can improve fungibility and maintain or improve air quality
- These options do not have to remove existing state fuel authority
- Addressing the RFG oxygen mandate is a key issue (now addressed by EPAct)
- EPA received a number of comments on the study reflecting a wide range of views on the options presented

2005 EPAct Actions

- EPA's study identified a number of areas that needed legislative action
- 2005 Energy Policy Act included many of these suggestions
 - Renewable Fuels Standard
 - EPA developing comprehensive proposal now
 - Elimination of RFG Oxygen Requirement
 - Effective May 8, 2006 nationwide
 - Air toxics reductions
 - National Benzene standard proposed by EPA
 - Boutique fuel listing
 - EPA to issue proposed list later this month
 - Other related actions, including:
 - Consolidation of North and South grades of RFG
 - Joint actions with the Dept. of Energy: Boutique Fuel Report to Congress in August, 2006 and Study in June, 2008

EPAct Boutique Fuels Provision

- Once published, list may not be expanded beyond fuel types already in the PADD and on the list.
- Thus, EPAct does not allow any new fuel in a specific petroleum distribution area or PADD (except for one: a 7.0 psi low volatility fuel).
- If new fuel is introduced, DOE and EPA must study supply/air quality issues.



These EPAct Provisions will potentially limit new fuels adopted under SIP provisions.

Questions for Task Force

- Does your state utilize a SIP-adopted boutique fuel?
- Have you had any disruptions of supply solely due to the "boutique" nature of the fuel?
- Under what circumstances would you consider adopting a boutique fuel program?
- Under what circumstances would you consider dropping or modifying your existing boutique fuel program?
- What do you think of the 2001 study list of options?