Fuel Program Update

Heavy-Duty Engine Oil Classification Panel

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Presentation Overview

Program Implementation

 Highway Diesel

 Programs in Development

 Nonroad Diesel
 Locomotive and Marine

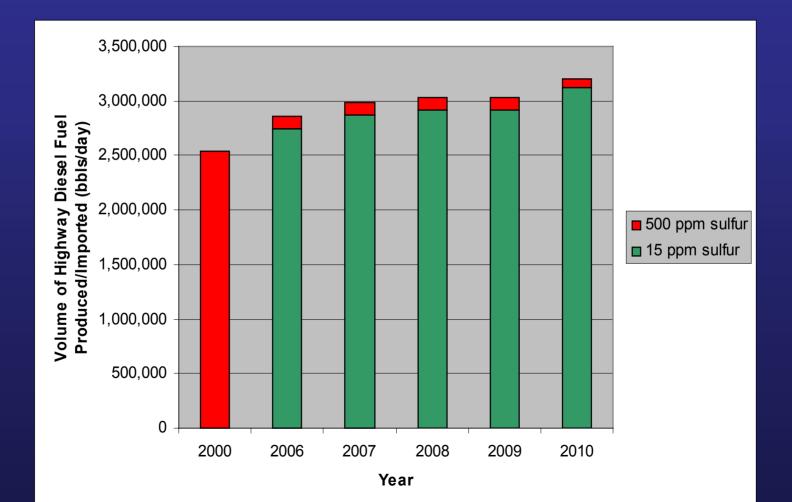


Progress Toward 2007: Highway Diesel Fuel Status

- Summary and Analysis of the Highway Diesel Fuel 2003 Pre-compliance Reports

 Analysis of reports submitted by ~120 refineries
 Published October 29, 2003
- 3 major findings:
 - Industry is on target to comply with the 15 ppm sulfur highway diesel fuel requirements on time
 - 15 ppm sulfur highway diesel fuel will be widely available
 - Highway diesel fuel supply will be sufficient to cover demand

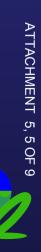
Projected Highway Diesel Fuel Production





Nonroad Proposal Overview

- Same systems approach as the highway program
- Engine standards represent reductions of >95% PM and ~90% NO_x - Starting in 2011, fully phased in by 2014
- Enhanced testing requirements to ensure in-use emissions reductions
- 500 ppm maximum sulfur nonroad, locomotive and marine diesel fuel in 2007
- 15 ppm sulfur nonroad diesel fuel in 2010





Marine 2.5%



Distillate Fuels



Locomotive 3.5%



Nonroad equipment

Covered by the proposal



Low sulfur fuel (highway) 67% *regulated since* 1993

Nonroad Feedback

- Published May 23, 2003
- 3 Public Hearings (N Chicago, LA)
- Comment Period Closed August 20
- ~150,000 Written Comments
- ~120 Substantive
 - States, Enviros, Labor, Farming, Fuel Industry, Engine/Equip Industry, Construction, Mining, Rail

Overall Very Positive

- (NY, Widespread support for Standards and Timing
 - Many comments received on
 - Large engine standards
 - Fuel program design
 - 15 ppm sulfur standard for locomotive and marine diesel fuel
 - Comments received on many other specific technical issues
 - Plan to issue FRM ~next April





Locomotive and Marine Diesel Standards



- Considering systems approach for future marine diesel and locomotive standards modeled after landbased nonroad
- Loco/marine diesel fuel sulfur control options discussed in the land-based nonroad proposal
 - Recent nonroad proposal would extend 500 ppm fuel sulfur cap to locomotive and marine diesel engines
 - Considering extending 15 ppm sulfur cap as well
 - Ocean going vessels (Category 3, >30 l/cyl) must use lowsulfur fuel (<15,000 ppm) or use SO_x scrubbers in designated SOx Emission Control Areas in the United States
- Next Steps: ANPRM planned for Spring 2004 within the same timeframe as the nonroad diesel FRM

For More Information...



- 2007 Highway Diesel Program:
 - <u>http://www.epa.gov/otaq/diesel.htm</u>
- Nonroad Diesel Proposal:
 - Copy of proposal and supporting documents are available from: <u>www.epa.gov/nonroad/</u>
 - Submitted comments are available at: www.epa.gov/epahome/edocket/