Marine Shipping Update
Coast Guard Route Study, State Fuel Rule

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Overview

• Background
• Recent Actions and Impacts
• U.S. Coast Guard Port Access Route Study (PARS)
• California Air Resources Board (CARB) Ocean-Going Vessels Regulation
• Next Steps
Background on Marine Shipping

• Huge source of emissions in Santa Barbara Channel
  • Identified in our Clean Air Plans since 1994.
  • Accounts for 50 percent of county ozone-precursor emissions.

• Not regulated in the past
  • We’ve raised awareness, achieved resolutions, called for rules, filed lawsuits.
Existing Shipping Lanes
Designated by International Maritime Organization
Recent Actions

- **CARB Ocean Going-Vessels Fuel Rule**
  - Goal to reduce diesel particulate emissions.
  - Effective July 1, 2009, vessels traveling up to 24 miles off CA Coast must use lower sulfur fuel.

- **International Maritime Organization (IMO) Establishes Emission Control Area**
  - Ships traveling up to 200 miles off North American coast have to meet stricter rules.
  - Phases in lower sulfur fuel limits in 2012 and 2016 – later than state rule, further offshore.
State Fuel Rule Impact

- Ships avoiding designated Channel lanes to avoid higher cost of low-sulfur fuel.
  - Ships move outside Santa Barbara Channel
  - Changed approach to LA and Long Beach ports.
## Channel Trip Trend

### Santa Barbara Channel Marine Vessels Annual Transits

<table>
<thead>
<tr>
<th>Year</th>
<th>Transits</th>
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<tbody>
<tr>
<td>2000</td>
<td>6,449</td>
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<td>2008</td>
<td>6,152</td>
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| 2009    | 4,641    | ARB Fuel Rule 7/1/2009
| 2010 (projected) | 1,881 | Actual data through 9/30; projected to year-end

U.S. Coast Guard
Port Access Route Study (PARS)

• Initiated April 2010
  • Concerns about vessel traffic in area without established approved shipping lanes.

• Focus
  • Safety, traffic management, marine environment.

• Possible outcomes
  • Validate existing vessel routing, no changes.
  • Recommend changes, including establishing second set of approved shipping lanes, areas to avoid, etc.

• Recommendations due early 2011
  • Additional actions could be needed to implement, e.g. IMO action, rulemaking, etc.
Issues

• Route Outside Channel May Benefit County Air Quality
  • Need additional information. District has asked CARB to perform air quality modeling.

• U.S. Navy Prefers Route through Channel
  • Route outside Channel is through Pt. Mugu Sea Range; potential for interference with military operations.
District Comments

- **June 2010 Letter - Recommendations for PARS**
  - Include assessment of air-quality impacts onshore from vessel routing, including CARB modeling requested by District.
  - Include evaluation of impacts from vessel speed reduction requirement for ships traveling through Channel.
    - Several pollutants could be reduced **significantly** when ships required to travel at 12 knots per hour.
  - Coast Guard should install equipment on one of the Islands for more ship traffic data.

- **PARS hearing 10/13/10** – District Director summarized comments, emphasized need for study to go forward.

www.OurAir.org
Proposed CARB Fuel Rule Revisions

• Extends rule implementation to 24 nautical miles from outer edge of Channel Islands. Rule would require ships using outside-Channel route to use same low-sulfur fuel as ships using inside-Channel route.

• Achieves emission reductions anticipated for the rule before ships changed routes.

• Removes economic incentive for ships to go outside Channel.
Proposed Extended Clean Fuel Zone

“Window” for Vessels Using the Channel Route

Channel Route

Current 24 nm Regulatory Zone

Extended Clean Fuel Zone—Extends out 24 nm from Islands (consistent with Contiguous Zone on NOAA charts)

Outer Route
Proposed Fuel Rule Revisions
District Perspective

• Support in principle rule’s additional emission reductions benefits.
• Need more information on onshore impacts.
• Support Coast Guard conducting Route Study as planned.
Next Steps

• Review CARB modeling and submit further comments on PARS.
  • Recommend route and actions that are best for county air.
• Track Fuel Rule changes.
  • View modeling and assess county impacts.
• Track PARS results.
• Return with updates.
Questions?