

EPA Ports Initiative

AAPA Marine Terminal Management Training
Philadelphia, PA

October 9, 2014





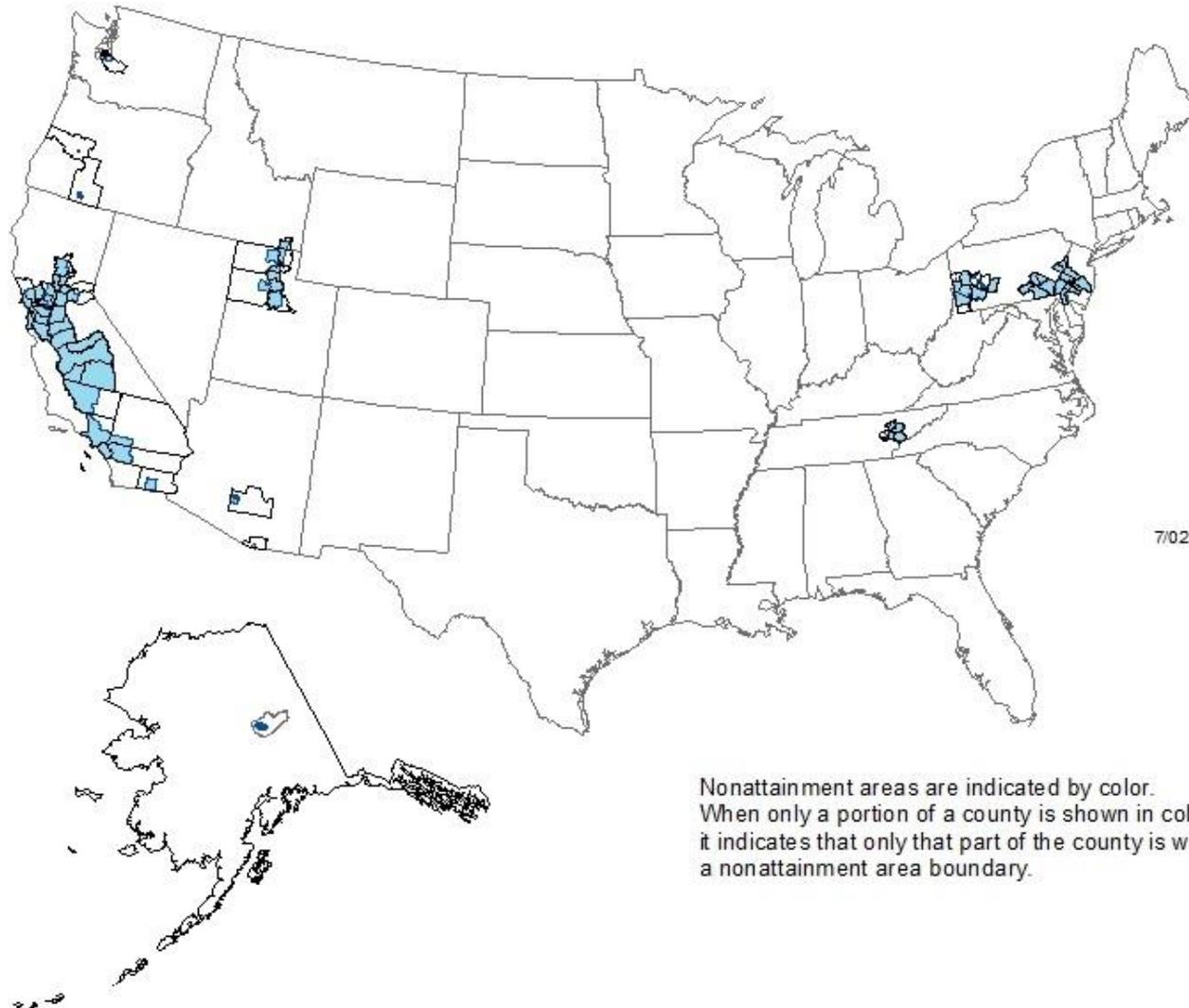
EPA's Priorities

- Protecting public health and the environment
- Improving air quality
- Addressing climate change
- Reducing exposure to pollutants
- Reducing diesel engine emissions
 - HC, CO, NO_x, CO₂, toxics
 - Particulate Matter (PM)





PM-2.5 Nonattainment Areas (2006 Standard)



7/02/2014

Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.



8-Hour Ozone Nonattainment Areas (2008 Standard)



Nonattainment areas are indicated by color. When only a portion of a county is shown in color, it indicates that only that part of the county is within a nonattainment area boundary.

EPA Major Mobile Source Standards that Affect PM



Tier 2 and Light-Duty

final rule 1999

fully phased in 2009

Diesels held to same stringent standards as gasoline vehicles

GAS 30 PPM; DIESEL 15 PPM

Tier 3 Final Rule, March, 2014

fully phased in 2022



Heavy-Duty Highway

sales 800,000 / yr

40B gallons / yr

final rule 2000

fully phased in 2010

DIESEL 15 PPM



Nonroad Diesel

sales over 650,000 / yr

12B gallons / yr

final rule 2004

fully phased in 2015

DIESEL 15 PPM



Locomotive/Marine

sales 40,000 marine engines,

1,000 locomotives / yr

final rule 2008

fully phased in 2017

DIESEL 15 PPM



Ocean Going Vessels

Final EPA Rule Dec 2009

IMO MARPOL Annex VI

ECA Controls

- Fuel Based 2015 1000 PPM
- SCR Catalyst Based 2016

Note: sales and diesel fuel usage vary year-to-year; these figures are for comparison purposes only



Legacy Diesel Engines & Emissions

- New standards, no matter how tight, cannot clean up the existing fleet.
- Reducing emissions from diesel engines remains one of the most important air quality challenges facing the country
- Even with more stringent standards set to take effect in the next decade, over the next 20 years, millions of in-use engines will continue to emit large amounts of pollution
- This pollution will continue to contribute to numerous instances of premature mortality, asthma attacks, lost work days and many other health impacts



EPA's Port Initiative Vision

To develop and implement an environmentally sustainable port strategy that:

- identifies opportunities and finds solutions to help build a more sustainable ports system,
- creates healthy air quality for communities
- reduces climate risk
- supports our economy and jobs.



Timeline

- National Conversation on Ports
 - Sept. 24, 2013 - Promoting Port Stakeholder Success
 - Jan 14, 2014 - Collaborative Solutions & Community
 - Mar 4, 2014 - Advancing Sustainable Solutions
- Port Stakeholders Summit—April 8, 2014
- MSTRS Meeting—May 7, 2014



Common Themes

- Ports are a node in the larger goods movement supply chain. All nodes have different business/mgmt conditions
- Importance of level playing field
- Continual improvement program must drive real change, not just “recognition”
- Cross-agency coordination is critical
- Include some aspect of best practices/info sharing
- Program needs to be flexible to evolve over time
 - If start with air, should eventually include other environmental media
- Interact with communities – support economic viability and reduce cumulative impact



Charge for MSTRS Ports Initiative Workgroup

- EPA asked MSTRS for recommendations on:
 - Development of an EPA-led voluntary environmental port initiative
 - How to effectively measure air quality and GHG performance of ports and/or terminals within ports
- The workgroup should consider:
 - Past MSTRS and other recommendations
 - Existing port environmental improvement programs
 - Ports in the context of the broader transportation supply chain
 - Information from EPA's Assessments as available



EPA Ports Workgroup

MAERSK LINE/ Maersk Agency USA	Caterpillar
U.S. EPA	Manufacturers of Emission Controls Association
Port of Long Beach	Burlington Northern Santa Fe Corporation
Port of New Orleans	Environmental Defense Fund
Maryland Port Administration	Evans Delivery
Virginia Port Authority	New Jersey Dept of Environmental Protection
Port of Charleston	South Carolina Dept of Health & Environ Control
American Association of Port Authorities	Natural Resources Defense Council
Ports America	Greater Southeast Development Corporation
Cargill	East Yard Communities for Environmental Justice
Target	Steps Coalition
Walmart	International Council on Clean Transportation



EPA Ports Workgroup

- Subgroups
 - Definition of a Port
 - Port Inventory/Metrics
 - Strategies for Community-Port Engagement
 - Federal Agency Coordination
 - Barriers to Technology Implementation



Workgroup Timeline and Next Steps

- Timeline 18 to 24 months
- Subgroup meetings
- Development of work plan
- EPA coordination and federal agency coordination