



# **OTC Ozone Planning, 2012**

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# Timeline

OZONE STANDARD: 0.08 ppm  
Ozone SIP Submitted  
OZONE STANDARD: 0.075 ppm  
Region Designated "Marginal" Nonattainment  
(No SIP Required, Conformity needed)  
New Standard Proposed,  
2008 Ozone Standard Revoked  
NEW OZONE STANDARD ?  
Attainment Year  
– 2008 Standard

1997

2007

2008

2012

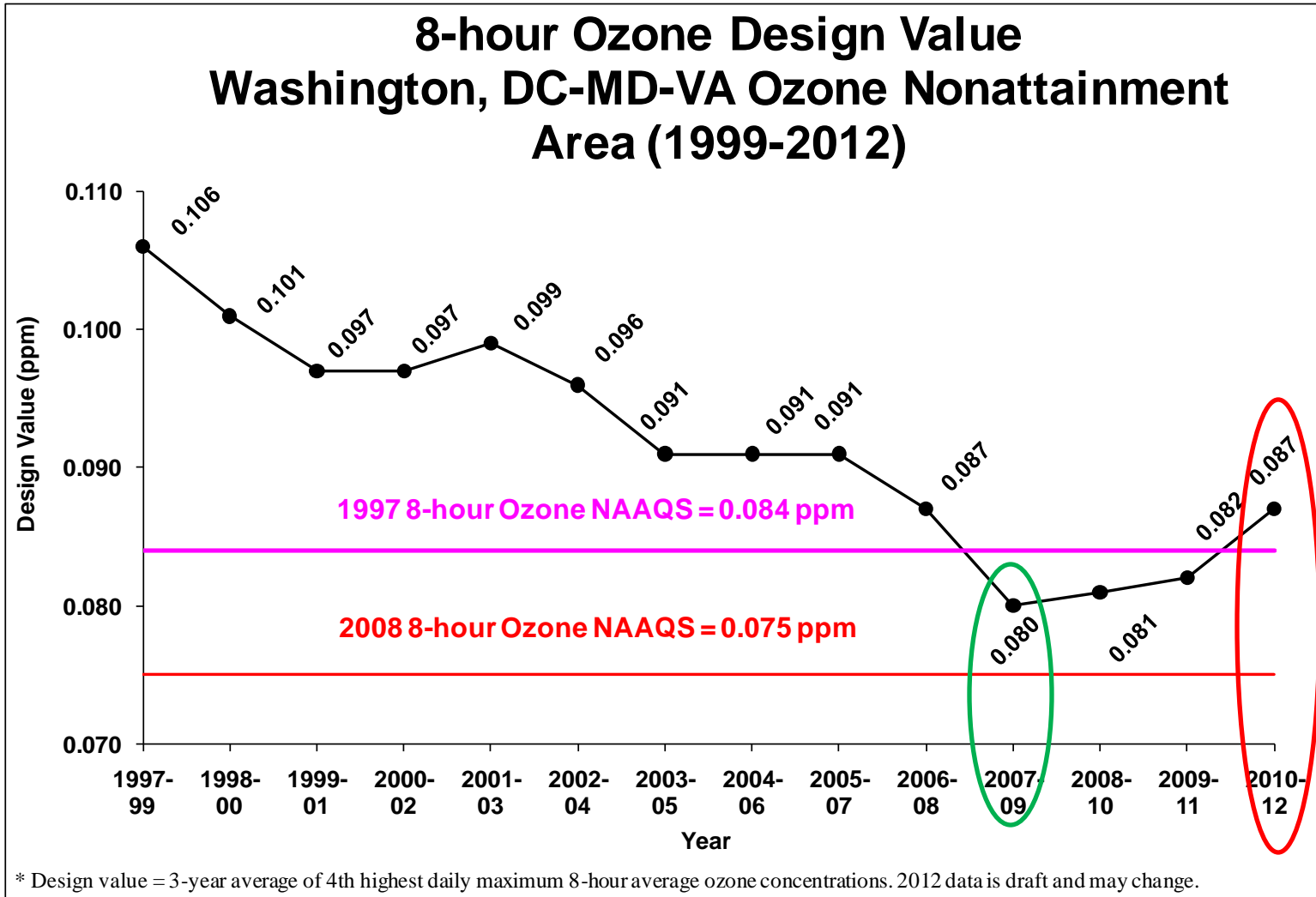
2013

2014

2015



# Outlook for Attainment - 2008 Ozone Standard

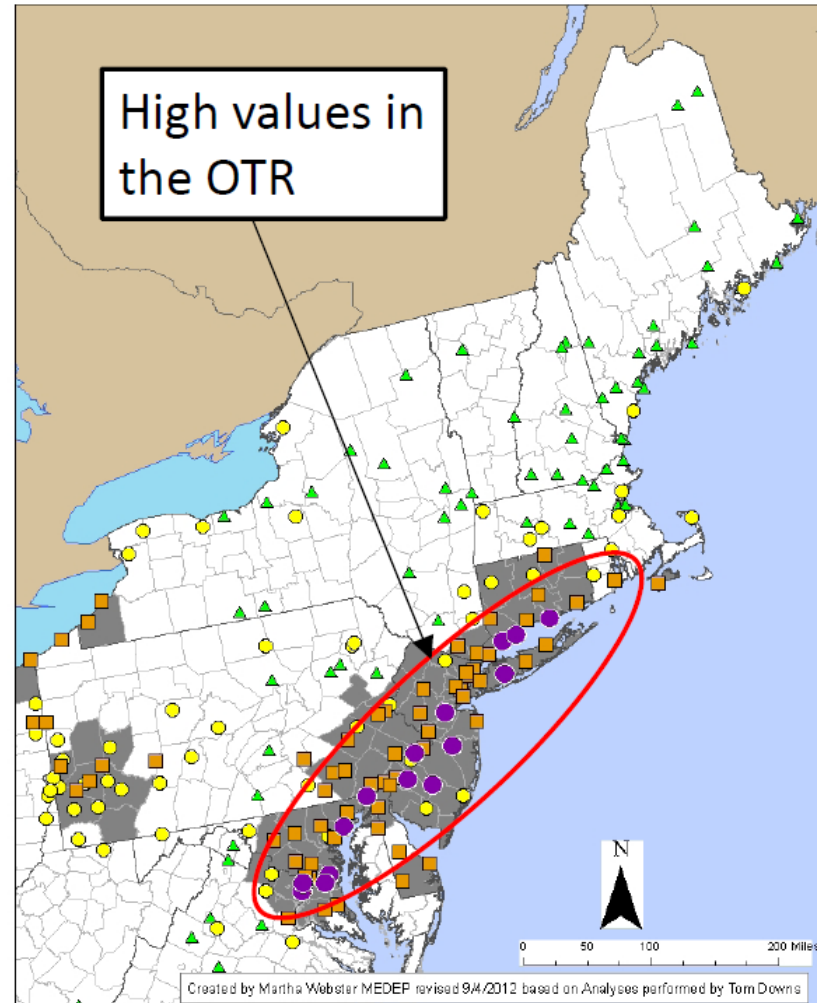
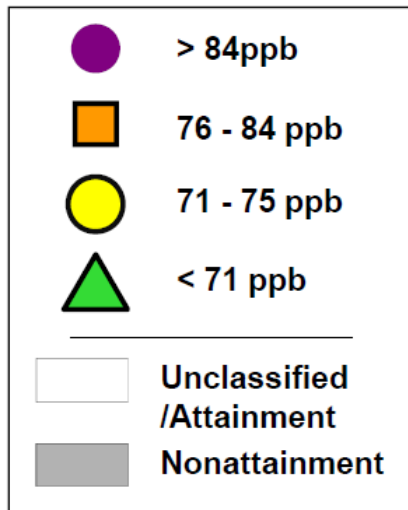




# Outlook for Attainment - 2008 Ozone Standard

## Preliminary 2012 Ozone Design Values

3-Year average of the 4<sup>th</sup> high concentration for 2010, 2011, 2012

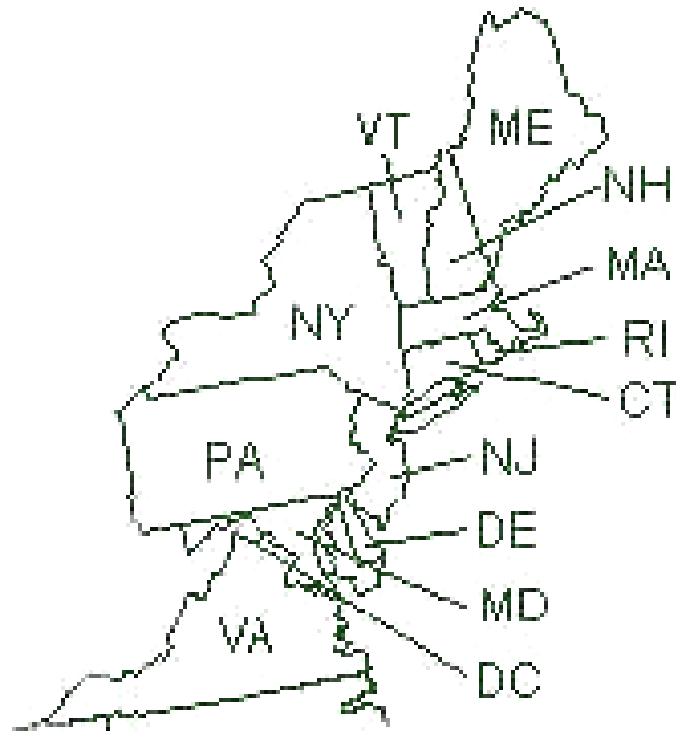


Source: OTC Meeting, 09/13/12



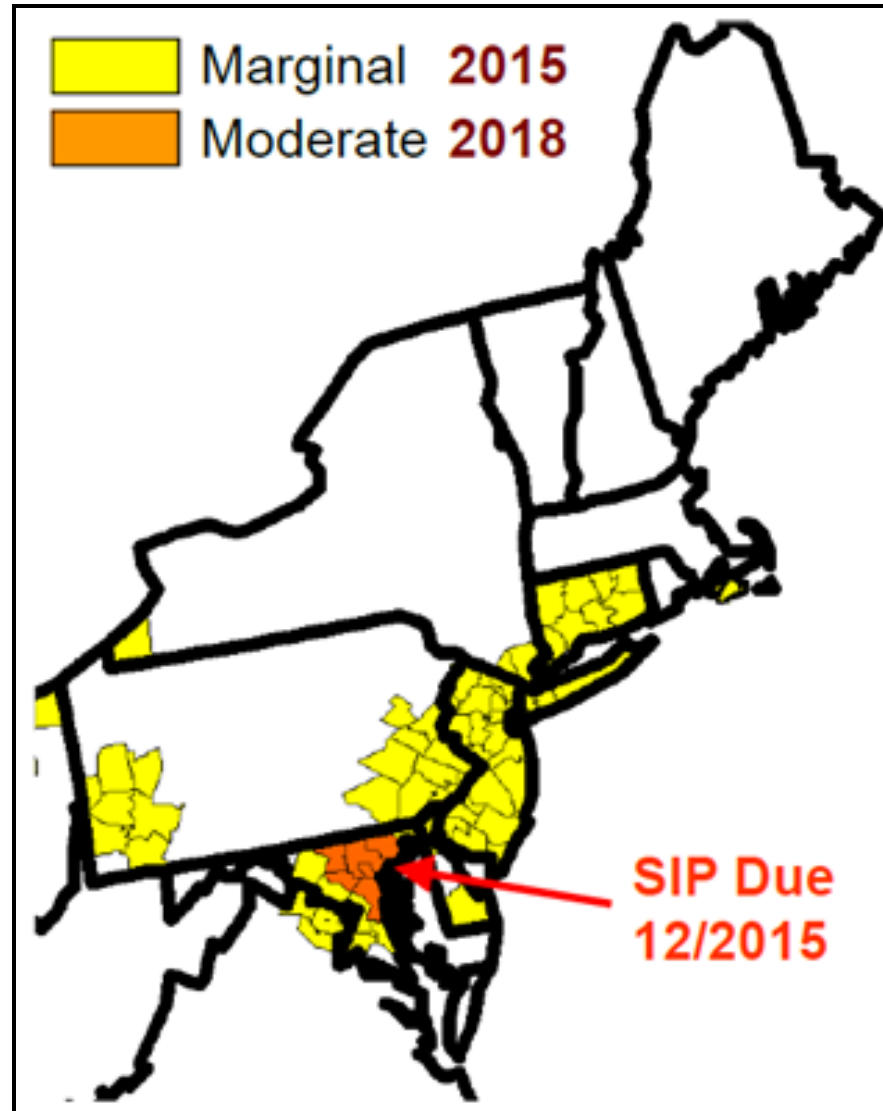
# Ozone Transport Commission (OTC)

- Multi-State organization created under Clean Air Act
  - Develops and implements regional solutions to ozone problem in the Northeast and Mid-Atlantic regions
  - Advises EPA on ozone transport issues





# 2008 Ozone Standard: Marginal & Moderate





# OTC Planning Process

- OTC developing new control measures:
  - Subcommittees study potential controls, draft model rules
    - Stationary, Mobile & Nonroad, Area source controls
  - Meeting with stakeholders (industry, affected parties)
  - Subcommittee approves draft model rule, OTC votes to adopt model rule
  - States adopt model rules on their own schedule



# Proposed OTC Control Measures

- Point source
  - Coal fired boilers (Power plants)
  - Industrial/Commercial/Institutional boilers
  - Municipal waste incinerators
  - Natural gas compressor facilities (Oil & Gas sector)
- Onroad mobile source
  - I/M program for heavy-duty diesel vehicles
  - Evaluation of benefits for revising old EPA rule on Aftermarket Catalytic Converters
- Nonroad mobile source
  - Pleasure craft
  - Lightering (Crude oil transfer from docked ships)
  - Draft model rule on nonroad idling ready, States need to decide on adoption





# Proposed OTC Control Measures

- Area source
  - Evaluation of refueling vapor control benefits, decision soon on whether to retain controls or not
  - Draft model rules on consumer products and solvent degreasing ready, States need to decide on adoption
- Energy Efficiency Strategies
  - Draft paper for taking SIP credits for deep commercial building retrofits
- Demand Response
  - Start-up/shutdown emissions of Heavy Electricity Demand Days (HEDD) being evaluated for impact of air quality
  - If impact found significant, then alternatives or means to reduce emissions will be looked into



## If We Do Not Meet 2015 Deadline

- In 2016 EPA will redesignate region to “Moderate” Nonattainment
- “Bump-up” from “Marginal” NAA will be based on 2013-15 ozone design value



## Consequences of “Bump-up”

- State Implementation Plan (SIP) required by 2019 with:
  - Emissions inventories - Base, Reasonable further progress (RFP), and Attainment years
  - RFP Plan - 15% VOC or NO<sub>x</sub> reduction within 6 years from base year
  - Adopt
    - Reasonably Available Control Measures (RACM)
    - Reasonably Available Control Technology (RACT)
    - Contingency measures
  - Maintain all control programs previously adopted
  - Attainment demonstration (Modeling required)



## Conclusions

- Possibility of Washington region not meeting the 2015 attainment deadline for 2008 ozone standard
- Region may get bumped-up to moderate NAA
- OTC working on control measures
- Need to research additional local measures for possible bump-up scenario