



# Connecticut Department of Energy and Environmental Protection



# 2015 Ozone National Ambient Air Quality Standard (NAAQS)

October 8, 2015  
CT DEEP, Bureau of Air Management  
SIPRAC

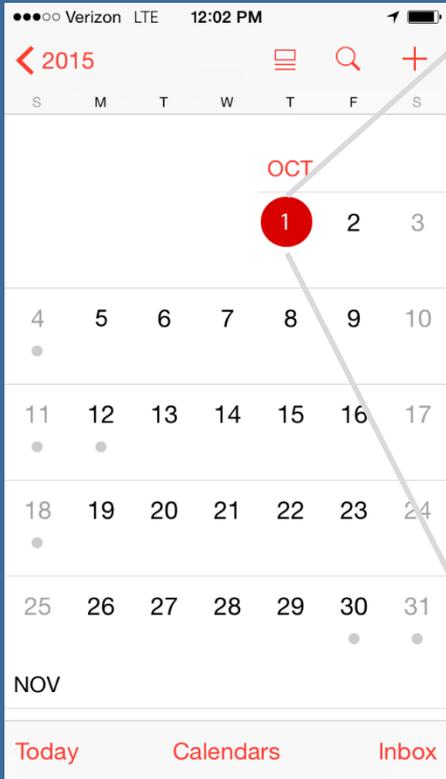


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# CAA Requirements and Court Rulings

- **CAA §108/§109 Requires NAAQS Review**
  - Mandates EPA to review new science and to revise NAAQS (if warranted), every 5 years
  - Primary NAAQS: “requisite to protect public health with an adequate margin of safety” ... cost cannot be a factor
  - Secondary NAAQS: protect public welfare (“effects on soils, water, crops, vegetation, man-made materials, animals, wildlife, weather, visibility and climate . . .”)
  - Last updated 2008 (75 ppb 8-hr, for both NAAQS)
- **2014 Court Order to Review Both 2008 NAAQS**
  - Required proposal by 12/1/2014 AND FINAL BY 10/1/2015





## New Ozone Standard

Thursday, Oct 1, 2015  
from 12:20 PM to 1:20 PM

Calendar ● Work >

Primary – 70 ppb

Secondary– 70 ppb

Monitoring Season Expanded

Implementation Memo Issued

AQI Updated to Reflect New Standard



# Why 70ppb?

- Combined, the results of the clinical studies and risk and exposure analyses show that a standard of 70 ppb will protect public health.
  - A standard of 70 ppb is below the level shown to cause adverse health effects in the clinical studies.
  - A standard of 70 ppb essentially eliminates exposures that have been shown to cause adverse health effects, protecting 99.5 percent of children from even single exposures to ozone at 70 ppb.

Source: <http://www3.epa.gov/ozonepollution/pdfs/20151001overviewfs.pdf>



# What this means for us.

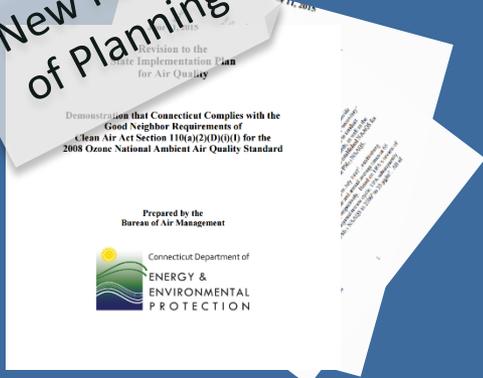
Increased & Evolving Monitoring



New AQI Cut Points

Index Values	Breakpoints in the 2008 AQI (ppb, 8-hour average)	Updated Breakpoints (ppb, 8-hour average)
0 - 50	0-59	0-54
51 - 100	60-75	55-70
101 - 150	76-95	71-85
151 - 200	96-115	86-105
201 - 300	116-374	106-200
301 - 500	375 to the Significant Harm Level*	201 to the Significant Harm Level*

New Round of Planning



New Round of RACT

**What is...**

**R**easonably  
**A**vailable  
**C**ontrol  
**T**echnology

RACT is the lowest emission limitation that a source is capable of meeting by the application of reasonably available control technology considering technological and economic feasibility.

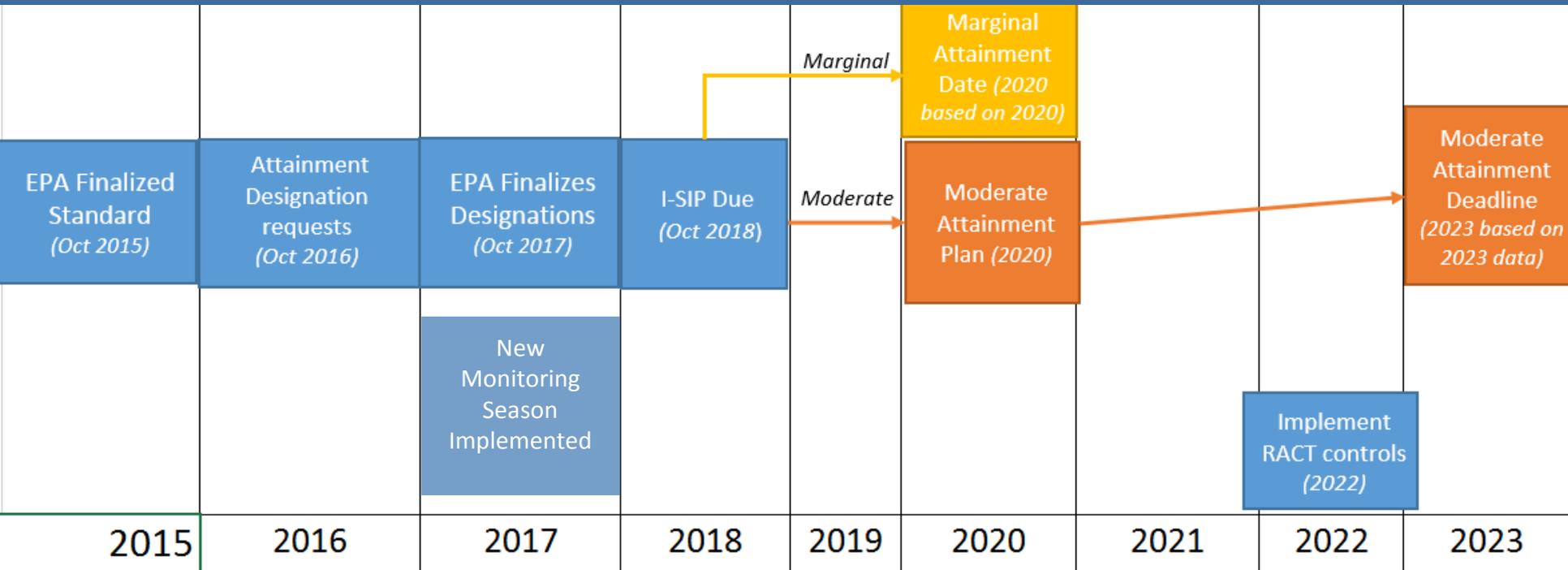


# The Infamous timeline:

Applicable to all

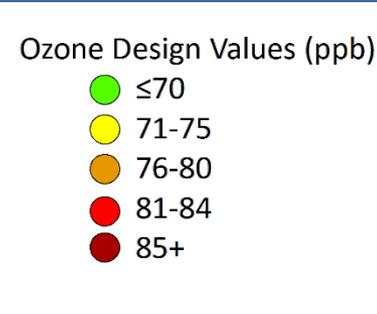
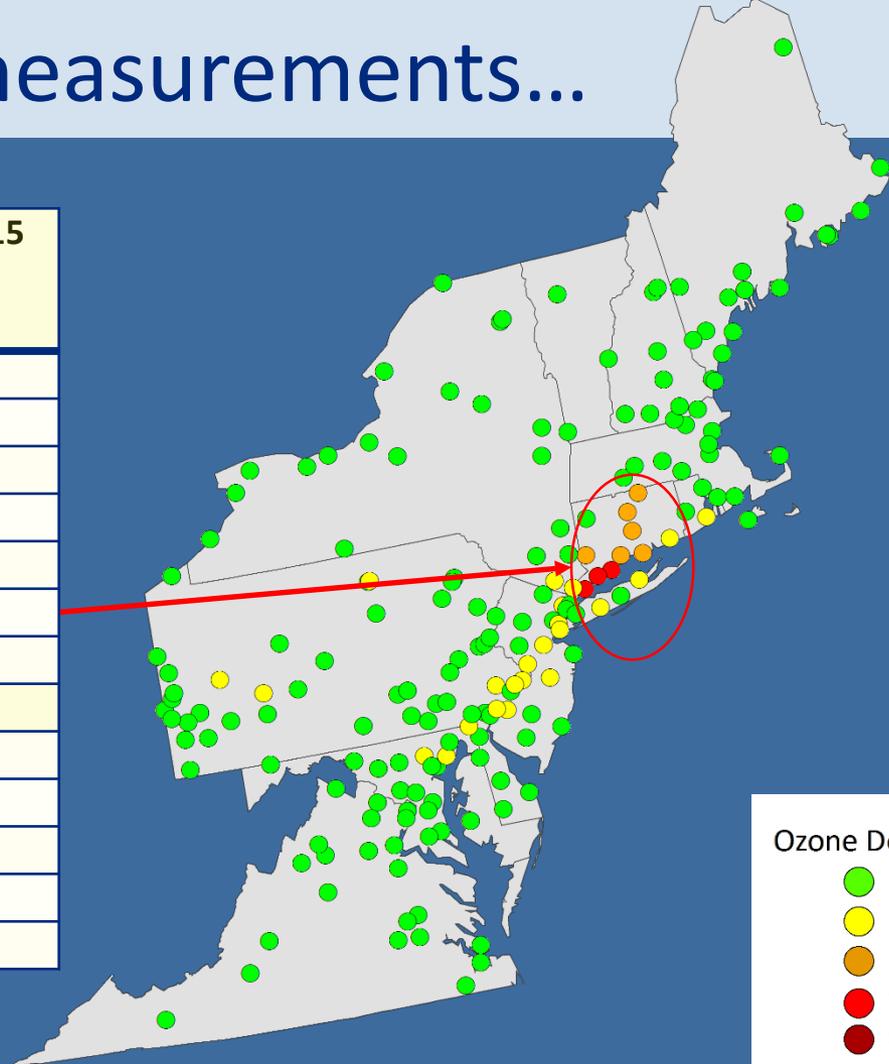
Marginal Non-Attainment

Moderate Non-Attainment



# Based on current measurements...

Non-Attainment Area	Monitor	Preliminary 2015 DVs*
NY-NJ-CT	Westport	84
	Stratford	83
	Greenwich	81
	Madison	78
	New Haven	76
	Danbury	76
	Middletown	80
Greater Connecticut	Groton	75
	Cornwall	70
	East Hartford	76
	Stafford	76
	Abington	68



*\*Designations will be made with 2014-2016 data.*

## ...we will **NOT** be designated attainment.

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# New Monitoring Requirements

- Reducing the Photochemical Assessment Monitoring Stations (PAMS) network
- Allowing for enhanced monitoring networks as needed
- Longer Ozone season
  - In 2017, season begin in March instead of April and still end in September



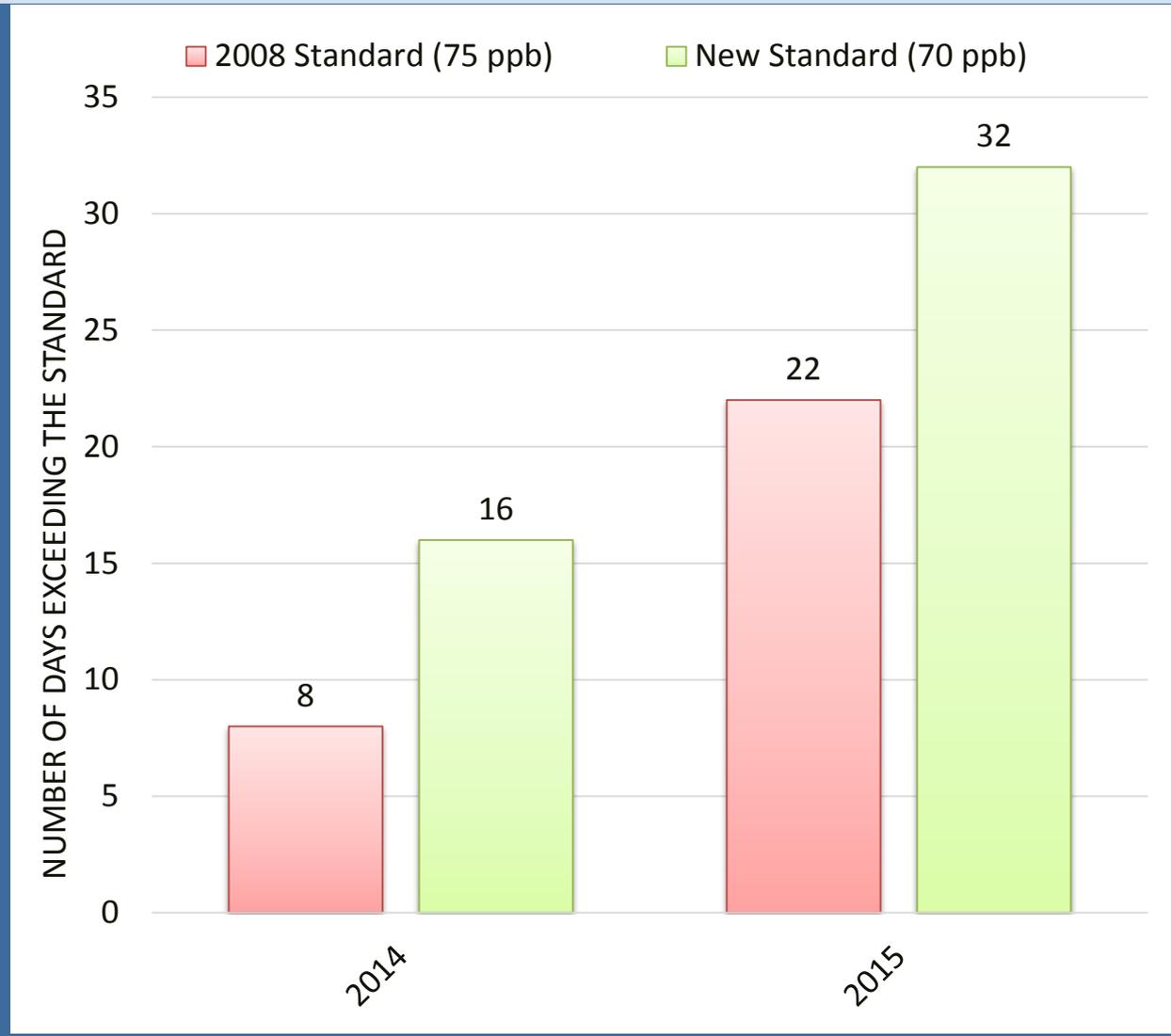
# New AQI Breakpoints

AQI Category	Index Values	Breakpoints in the 2008 AQI (ppb, 8-hour average)	Updated Breakpoints (ppb, 8-hour average)
<b>Good</b>	0 - 50	0-59	0-54
<b>Moderate</b>	51 - 100	60-75	55-70
<b>Unhealthy for Sensitive Groups</b>	101 - 150	76-95	71-85
<b>Unhealthy</b>	151 - 200	96-115	86-105
<b>Very Unhealthy</b>	201 - 300	116-374	106-200
<b>Hazardous</b>	301 - 500	375 to the Significant Harm Level*	201 to the Significant Harm Level*



# Increase in Exceedance Days

- More days designated as unhealthy for sensitive groups or worse
- More days which are restricted for stationary sources
- More days which limit open burning

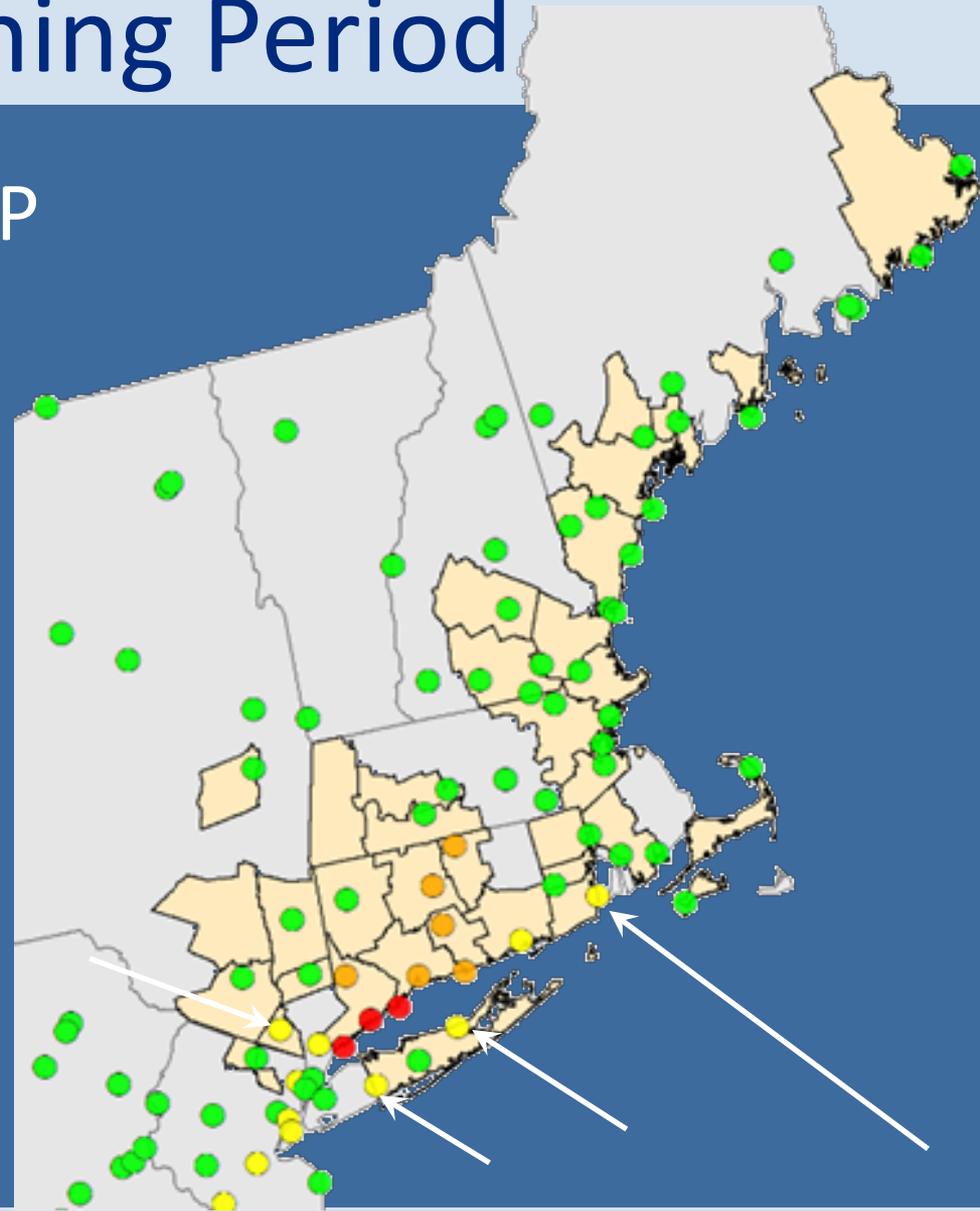
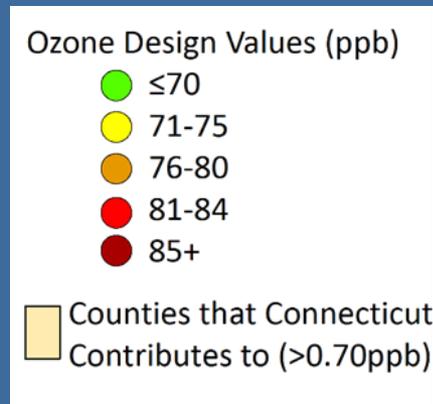


# New Planning Period

## Infrastructure/Transport SIP

*Due 10/1/2018*

*May require CT action to address downwind non-attainment or maintenance*



# New Planning Period

## Attainment SIP

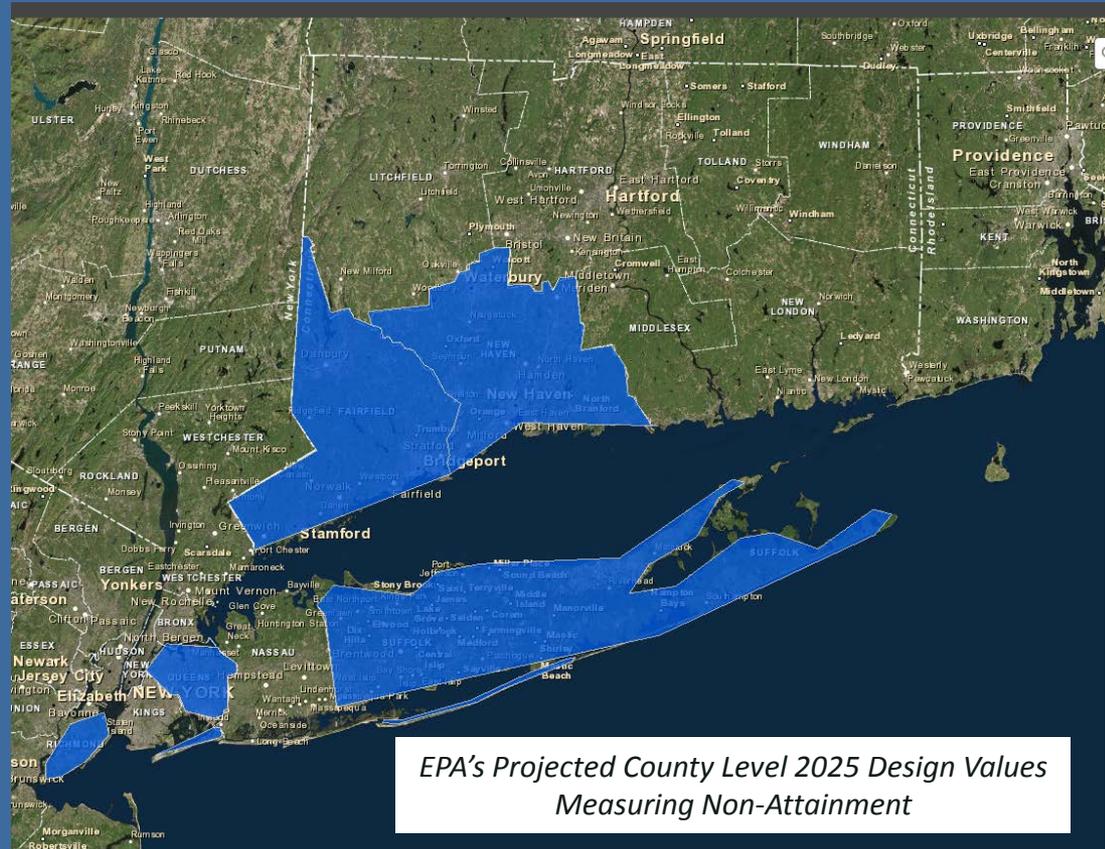
SIP Due : *Marginal (Not Applicable),  
Moderate(2020)*

## Attainment Deadline\*:

*Marginal (2020), Moderate( 2023)*

## Pieces Needed:

- *Inventories (base and attain year)*
- *RFP*
  - *Reasonable Available Control Technology (RACT) --2022 Implementation*
  - *Reasonable Available Control Measures (RACM)*
- *Upwind Obligations*



# New Planning Period

## Permit Program

- Rule included a “grandfathering” provision
  - Same as proposed based on dates of review
- In a separate action EPA proposed changes to Appendix W ([As presented previously to SIPRAC](#)). **Comment Due 10/27/2015**
- A promise to update and provide a new guidance on Prevention of Significant Deterioration (PSD) screening tools and offsets



# Questions?



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