

NSR Permitting Implications of New 1-Hour NO₂ and SO₂ NAAQS

Anticipated NAAQS Implementation Milestones (~EPA)

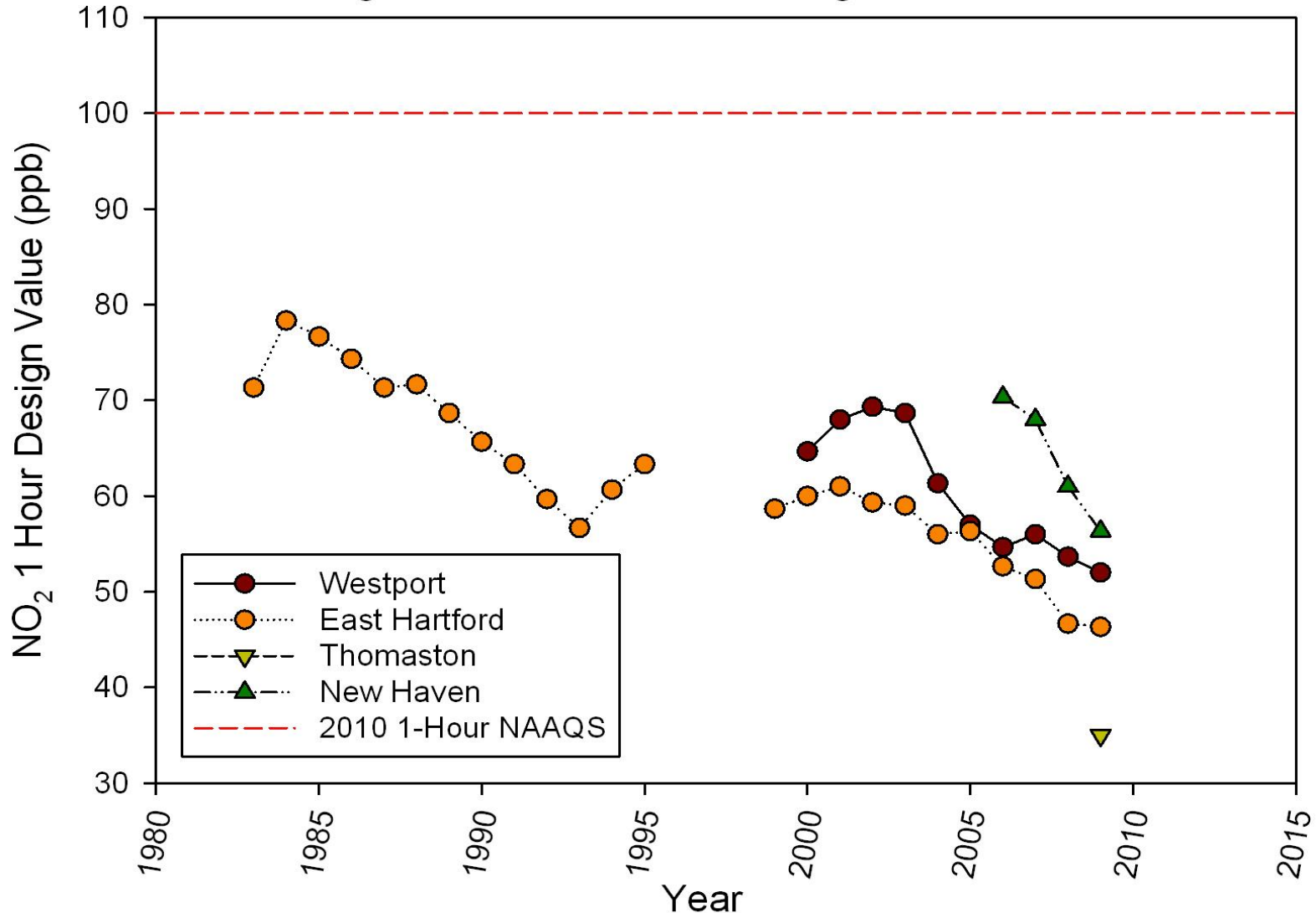
Pollutant	NAAQS Promulgation Date	Designations Effective	Attainment Demonstration Due	Attainment Date
PM _{2.5} (2006)	<u>Sept 2006</u>	Dec 2009	Dec 2012	Dec 2014/2019
Pb	<u>Oct 2008</u>	Nov 2010/2011 <small>(extra time for new monitors)</small>	June 2012/2013	Nov 2015/2016
NO ₂ (primary)	<u>Jan 2010</u>	Feb 2012	Aug 2013	Feb 2017
New 1-hr NAAQS				
SO ₂ (primary)	<u>June 2010</u> <small>(Signed June 2, 2010)</small>	July 2012	Jan 2014	July 2017
Ozone	<u>Aug 2010</u> <small>(Proposed in FR January 19, 2010)</small>	<u>Aug 2011</u> <small>(based on 2008-2010 data)</small>	<u>Dec 2013</u>	Dec 2017 <small>(Moderate)</small> Dec 2020 <small>(Serious)</small>
CO	<u>May 2011</u>	June 2013	Dec 2014	May 2018
PM _{2.5} (2011)	<u>Oct 2011</u>	Nov 2013	Nov 2016	Nov 2018/2023
NO ₂ /SO ₂ (Secondary)	<u>Mar 2012</u>	Apr 2014	Oct 2015	N/A

Underlined dates indicate court-ordered or settlement agreement deadlines.

New NO₂ and SO₂ 1-Hour NAAQS

- NO₂: 100 ppb
 - 3-year average of the 98th percentile of the yearly distribution of 1-hour daily maximum NO₂ concentrations
 - Retained previous annual NAAQS of 53 ppb
 - New NAAQS effective date of April 12, 2010
- SO₂: 75 ppb
 - 3-year average of the 99th percentile of the yearly distribution of 1-hour daily maximum SO₂ concentrations
 - Replaces the previous 24-hour and annual SO₂ NAAQS
 - New NAAQS effective date of August 23, 2010

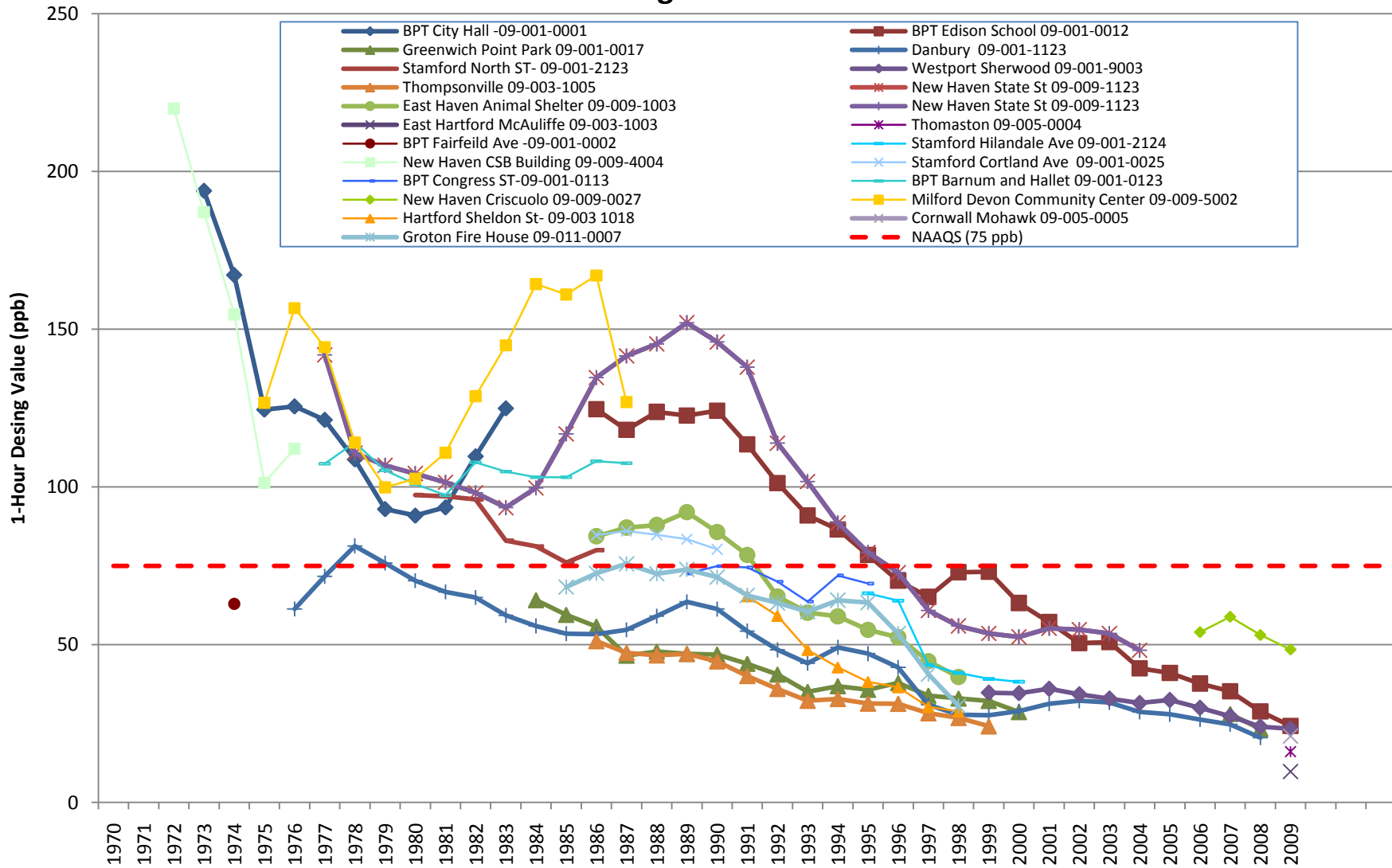
Nitrogen Dioxide 1-Hour Design Value Trend



Graph last updated 2/4/2010 Note 2009 data is incomplete as it is not fully QA'd

- EPA likely to designate CT as “unclassifiable” in 2012, pending siting of near-road monitors & collection of 3 years of data (~ 2016)

Sulfur Dioxide 1-Hour Design Values for Connecticut Sites



- EPA likely to designate CT as “unclassifiable” in 2012, due to lack of information on maximum source impacts

NSR Permitting Implications

- Proposed major new and modified sources are required to model NAAQS compliance
 - As of April 12, 2010 for NO₂
 - As of Aug 23, 2010 for SO₂
- EPA considering establishing 1-hour PSD increments, significant impact levels (SILs) and significant monitoring concentrations (SMCs) for NO₂ and SO₂
 - Compliance with 24-hr and annual SO₂ increments will still be required (hardwired in CAA)
- CTDEP required to submit SIP by June 2013, including source-oriented refined modeling, demonstrating 1-hour SO₂ NAAQS compliance by Aug 2017

For More Information on New NAAQS...

- NO₂ NAAQS: Federal Register of 2/9/2010
<http://www.epa.gov/airquality/nitrogenoxides/actions.html#jan10>
(NSR starts on page 6,524)
- SO₂ NAAQS: Federal Register of 6/22/2010
<http://www.epa.gov/airquality/sulfurdioxide/actions.html#jun10>
(NSR starts on page 35,578)