East-West Gateway Council of Governments
Air Quality Advisory Committee

Illinois Ozone & SO_2 Update

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Current Ozone Situation

- Two Nonattainment Areas for 2008 Ozone NAAQS
  - Chicago and Metro-East St. Louis
    - Both Marginal nonattainment.
    - However, neither area met attainment deadline using 2012-2014 monitor data (court decision does <u>not</u> allow use of 2015 data).
    - St. Louis area applied for a one-year extension; Chicago area *couldn't* and will be bumped up.
  - 2015 data brought <u>both</u> areas into attainment!
    - Intend to request redesignation ASAP – at almost the same time as a bump-up.

Current Illinois Ozone Nonattainment Areas

Metro-East NAA:
Madison, Monroe, & St. Clair Counties

Chicago NAA:
Cook, DuPage, Kane, Lake, McHenry, & Will Counties, plus Goose Lake & Aux Sable Townships in Grundy County and Oswego Township in Kendall County

Hot Spring + Summer = Ozone Exceedances

Statewide Ozone Exceedance Days

Year	Days	Site Exceedances
2007	32	36
2008	4	5
2009	4	9
2010	23	41
2011	27	80
2012	45	254
2013	8	15
2014	5	15
2015	2	8

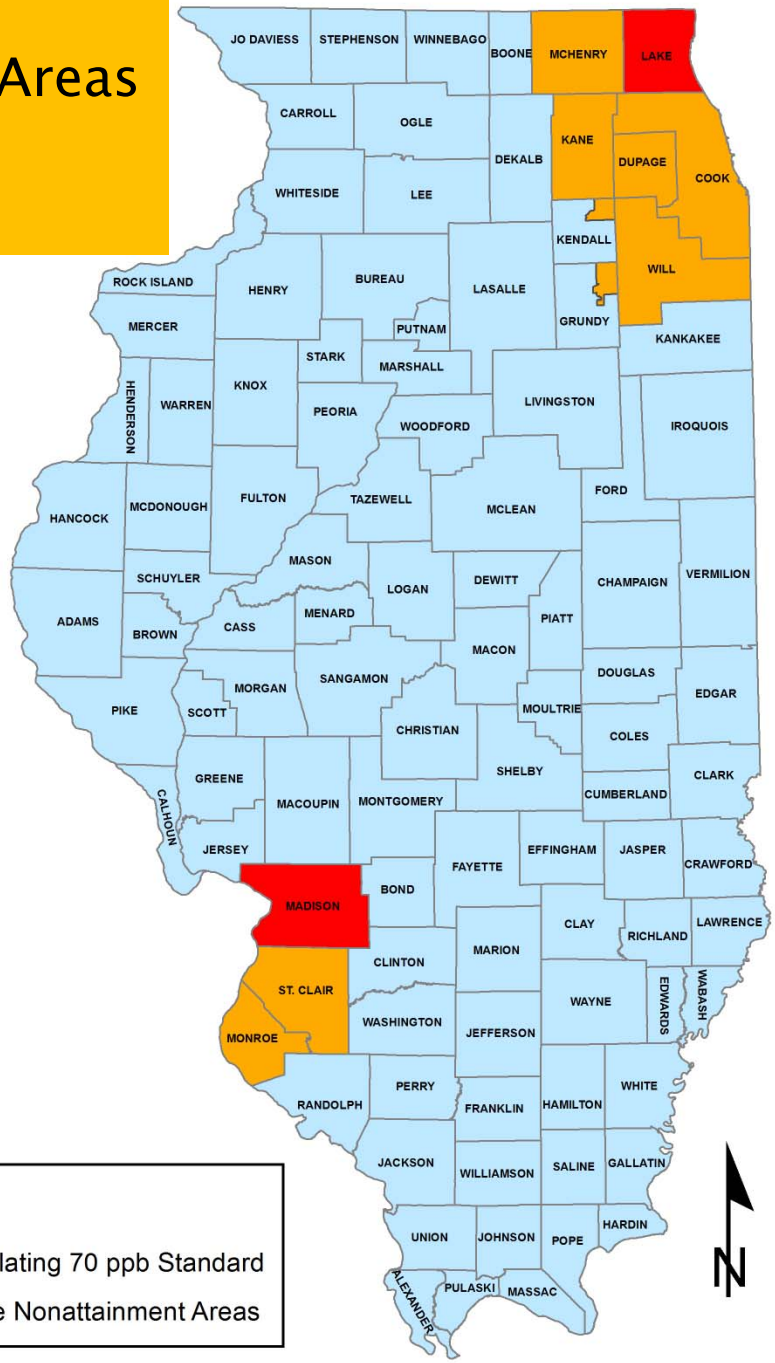
Top 5 Exceedance Years (since 1998 at 75 ppb)

1.	51	1999
2.	48	2002
3.	45	2012
4.	45	1998
5.	43	2005

New Ozone NAAQS

- USEPA finalized a new 70 ppb standard on October 1 (published in the Federal Register yesterday).
- USEPA also extended the ozone monitoring season for Illinois and many other Midwest states into March (so the full season is now March 1 – October 31).
- Schedule:
  - State recommendations due October 1, 2016.
  - USEPA proposals out by June 1, 2017.
  - USEPA finalizes designations by October 1, 2017.
- The new standard will likely put Illinois' "usual" areas into nonattainment – though it appears USEPA will probably use 2015-2016 data.

Possible "New" Illinois Ozone Nonattainment Areas Under 70 ppb NAAQS Finalized October 1



Likely Metro-East NAA:
Madison, Monroe, & St. Clair Counties

Likely Chicago NAA:
Cook, DuPage, Kane, Lake, McHenry, & Will Counties, plus Goose Lake & Aux Sable Townships in Grundy County and Oswego Township in Kendall County

New Ozone NAAQS – More Details

- Both areas likely to be Marginal.
  - Must come into attainment by 2020.
- USEPA believes existing & proposed federal rules will help bring the areas into attainment.
  - Interstate transport rules
  - Regional Haze regulations
  - MATS
  - Clean Power Plan
  - Tier 3 Vehicle Emissions and Fuel Standards
  - Light-Duty Vehicle Tier 2 Rule
  - Mobile Source Air Toxics Rule
  - Light-Duty & Heavy-Duty Vehicle Greenhouse Gas Rules
  - Reciprocating Internal Combustion Engine (RICE) NESHAP
  - Industrial/Commercial/Institutional Boilers & Process Heaters MACT

SO_2 NAAQS – Nonattainment Areas

- Two Current Illinois Nonattainment Areas for 2008 SO_2 NAAQS
  - Peoria/Pekin area & Lemont area

- SO_2 rules sent to "Second Notice" by the Illinois Pollution Control Board.
  - Statewide rule for sulfur content in fuel oil.
  - Specific limits for "culpable" sources of nonattainment within and near the two NAAs.

- Rule to be addressed by Legislature's Joint Committee on Administrative Rules at November 17 meeting.

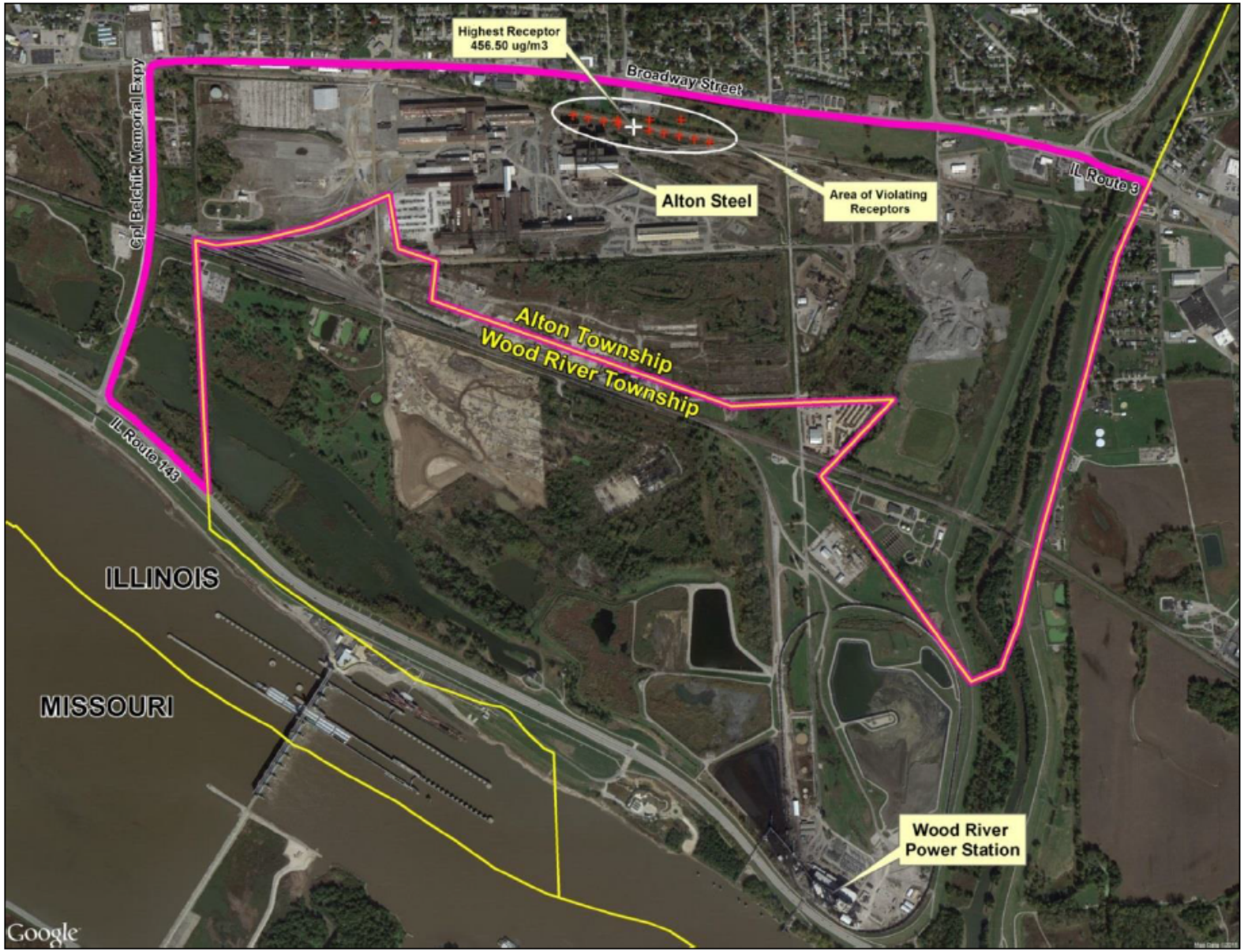
SO_2 NAAQS – Consent Decree & Data Requirements Rule

- Illinois EPA evaluated five large EGUs and their surrounding areas under the USEPA/Sierra Club Consent Decree.
  - Recommendations submitted to USEPA.
- Evaluation has begun on additional areas for the Data Requirements Rule.
- At least eight areas to be examined.
- Monitoring and/or modeling will determine which new areas become nonattainment.
  - Modeling is the default.
  - Only one area likely to monitor.

Illinois SO_2 "Consent Decree" Recommendations

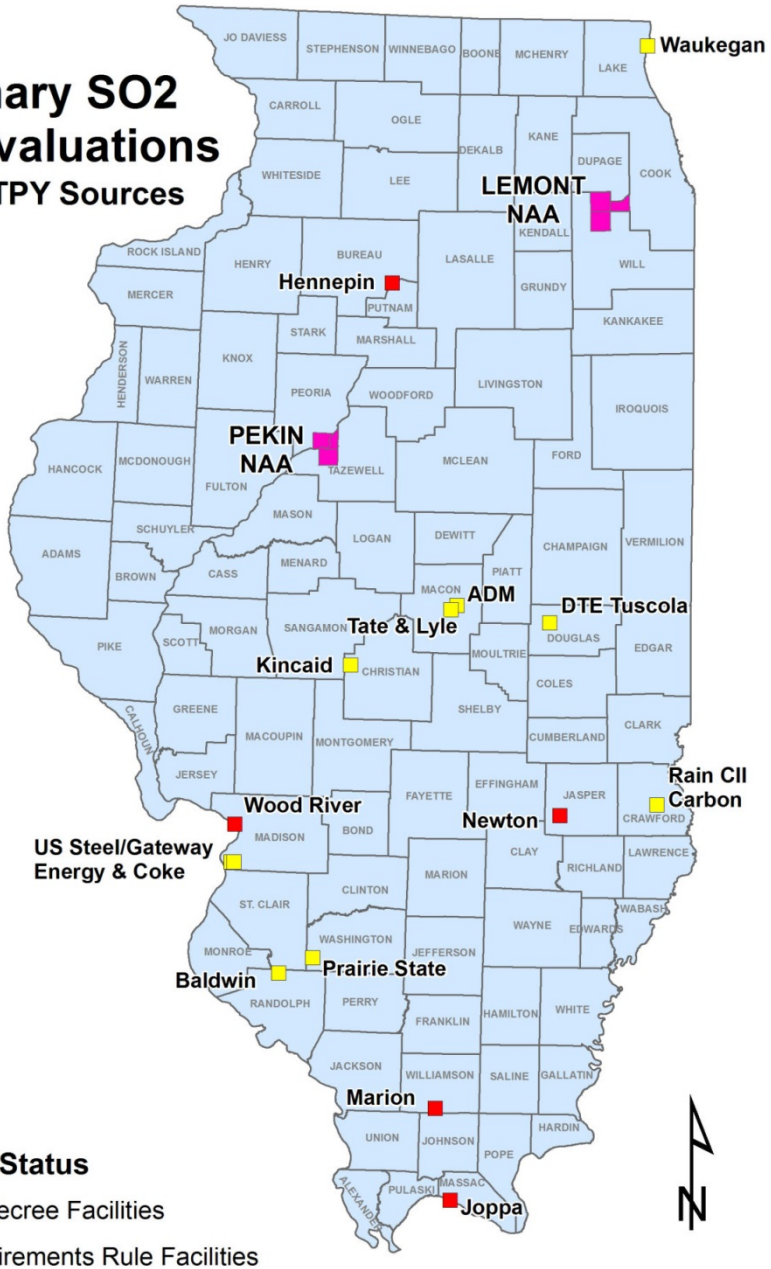
Facility (Location)	Designation	Areal Extent of Designation Recommendation
Newton Power Station (Jasper County)	Attainment	Jasper County
Hennepin Power Station (Putnam County)	Attainment	Putnam County, Bureau County
Joppa Steam Coal Power Plant (Massac County)	Attainment	Massac County
Marion Power Station (Williamson County)	Attainment	Williamson County
Wood River Power Station (Madison County)	Nonattainment	Area east of Corporal Belchik Memorial Expressway, south of East Broadway, south of Route 3, and north of Route 143 in Alton Township.
	Attainment	All of Wood River Township, and the area north of Cahokia Diversion Channel in Chouteau Township.
	Unclassifiable	Remainder of Madison County.

Proposed Nonattainment Area Boundary for the Wood River Study Area



Preliminary SO2 Source Evaluations

2014 2000 TPY Sources



Thank You

- Any Questions?

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