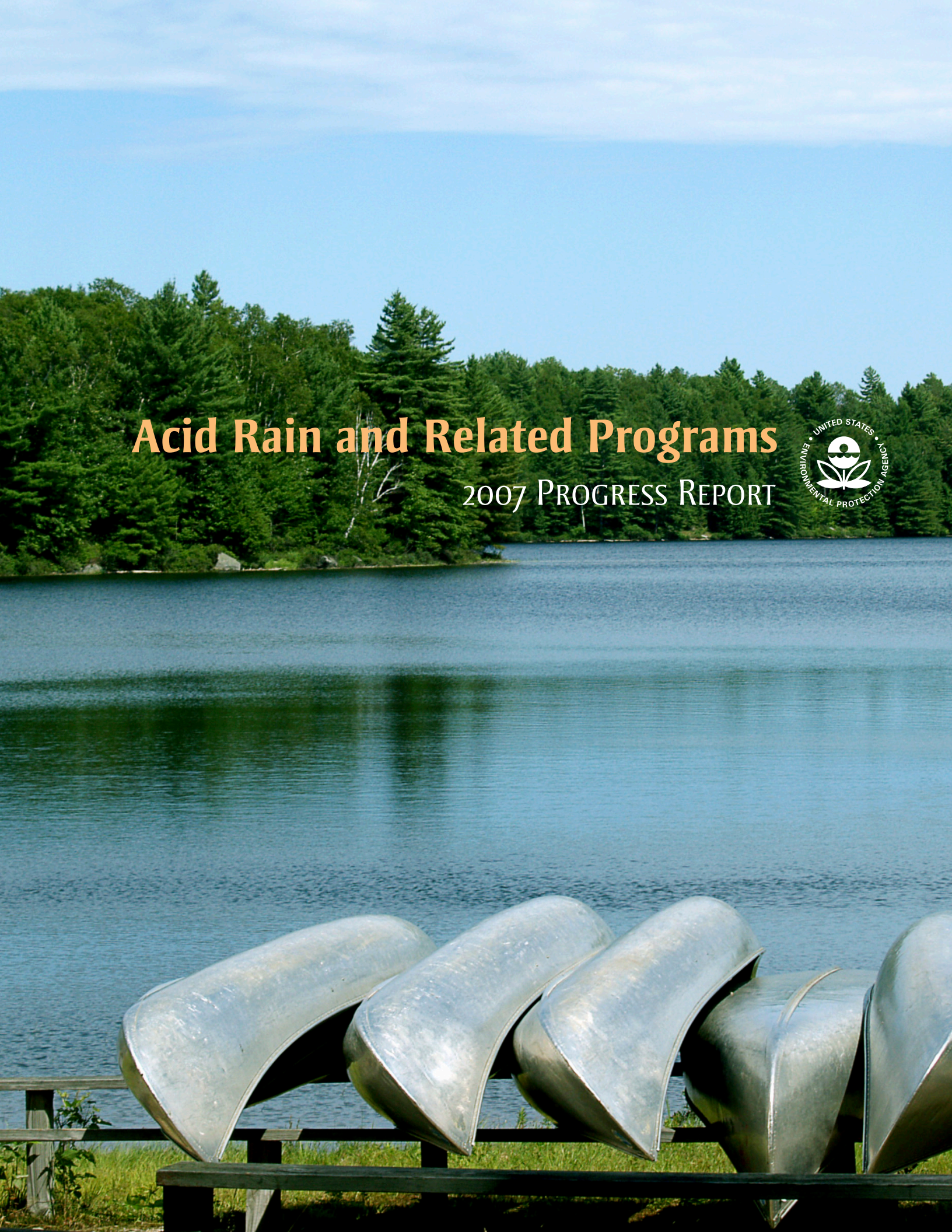
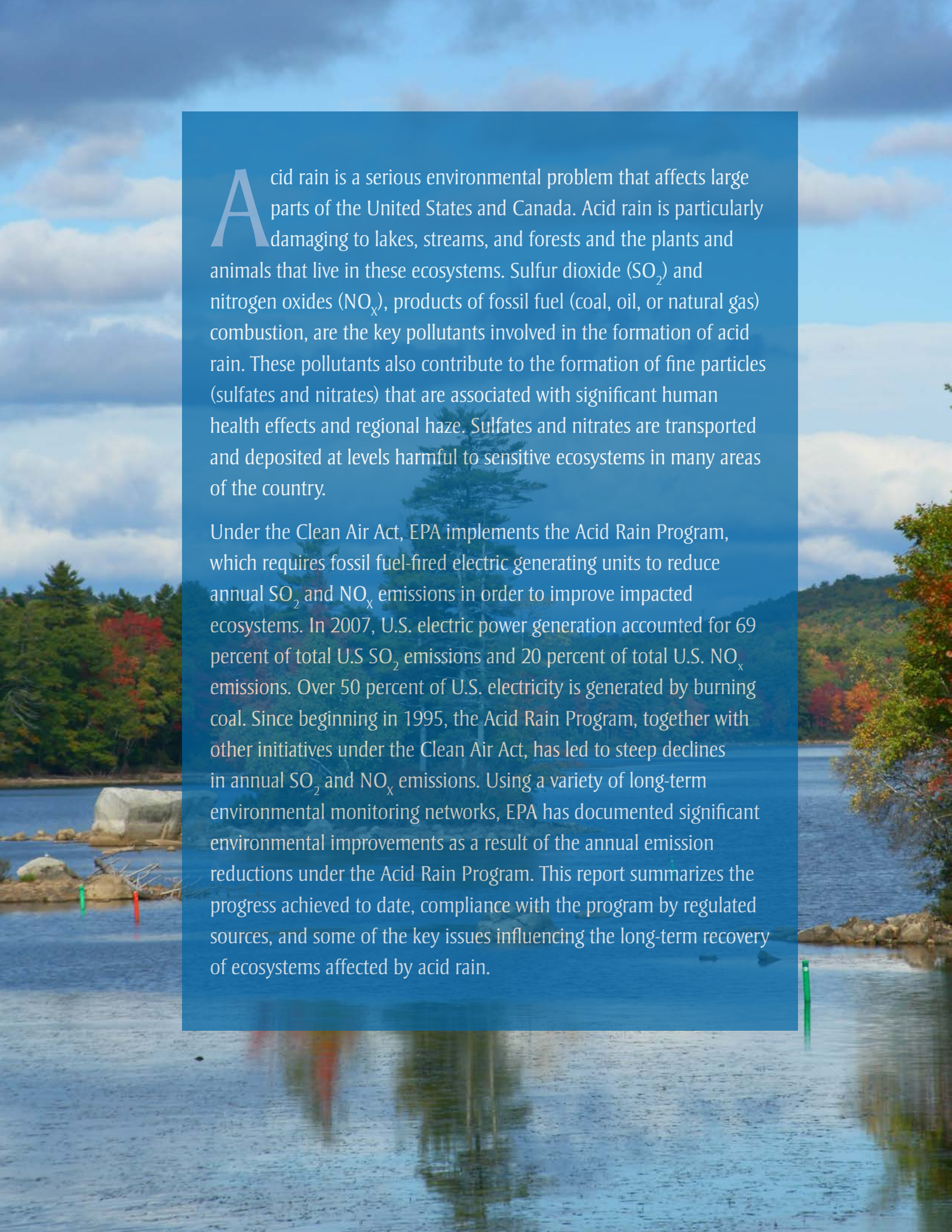


# Acid Rain and Related Programs

2007 PROGRESS REPORT





**A**cid rain is a serious environmental problem that affects large parts of the United States and Canada. Acid rain is particularly damaging to lakes, streams, and forests and the plants and animals that live in these ecosystems. Sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>), products of fossil fuel (coal, oil, or natural gas) combustion, are the key pollutants involved in the formation of acid rain. These pollutants also contribute to the formation of fine particles (sulfates and nitrates) that are associated with significant human health effects and regional haze. Sulfates and nitrates are transported and deposited at levels harmful to sensitive ecosystems in many areas of the country.

Under the Clean Air Act, EPA implements the Acid Rain Program, which requires fossil fuel-fired electric generating units to reduce annual SO<sub>2</sub> and NO<sub>x</sub> emissions in order to improve impacted ecosystems. In 2007, U.S. electric power generation accounted for 69 percent of total U.S. SO<sub>2</sub> emissions and 20 percent of total U.S. NO<sub>x</sub> emissions. Over 50 percent of U.S. electricity is generated by burning coal. Since beginning in 1995, the Acid Rain Program, together with other initiatives under the Clean Air Act, has led to steep declines in annual SO<sub>2</sub> and NO<sub>x</sub> emissions. Using a variety of long-term environmental monitoring networks, EPA has documented significant environmental improvements as a result of the annual emission reductions under the Acid Rain Program. This report summarizes the progress achieved to date, compliance with the program by regulated sources, and some of the key issues influencing the long-term recovery of ecosystems affected by acid rain.

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# SUMMARY



*In 2007, for the first time, SO<sub>2</sub> emissions were below the Acid Rain Program's long-term annual emission cap of 8.95 million tons—three years before the 2010 statutory deadline.*



# SUMMARY

Sulfur dioxide (SO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>), products of fossil fuel combustion (coal, oil, and gas), are the key pollutants involved in the formation of acid rain. These pollutants also contribute to the formation of fine particles (sulfates and nitrates) that are associated with significant human health effects and regional haze. Sulfates and nitrates are transported and deposited at levels harmful to sensitive ecosystems in many areas of the country. Additionally, NO<sub>x</sub> combines with volatile organic compounds (VOCs) to form ground-level ozone (smog). In 2007, the U.S. electric power industry accounted for 69 percent of total U.S. SO<sub>2</sub> emissions and 20 percent of total U.S. NO<sub>x</sub> emissions from man-made sources.<sup>1</sup>

The Acid Rain Program (ARP) was created under Title IV of the 1990 Clean Air Act (CAA) Amendments to reduce the adverse effects of acid deposition through reductions in annual emissions of SO<sub>2</sub> and NO<sub>x</sub>. The Act calls for SO<sub>2</sub> reductions from all sources of 10 million tons from 1980 emission levels, largely achieved through a market-based cap and trade program which imposes a permanent emission cap on SO<sub>2</sub> emissions from electric generating units (EGUs) at power plants. NO<sub>x</sub> reductions under the ARP are achieved through a program that applies to a subset of coal-fired EGUs and is closer to a more traditional, rate-based regulatory system. The goal of the NO<sub>x</sub> program is to limit NO<sub>x</sub> emission levels from the affected coal-fired boilers so that their emissions are at least 2 million tons less than the projected level for the year 2000 without implementation of Title IV.

## KEY FINDINGS

- In 2007, for the first time, SO<sub>2</sub> emissions were below the ARP's long term annual emission cap of 8.95 million tons—three years before the 2010 statutory deadline. Total SO<sub>2</sub> emissions in 2007 were 8.9 million tons from 3,536 affected electric generating units.
- NO<sub>x</sub> emissions from a subset of 978 coal-fired electric generating units also continued a steady decline in 2007, decreasing by about 121,000 tons (3.5 percent) from 2006 levels to about 3.0 million tons. Total NO<sub>x</sub> emissions from all 3,536 ARP electric generating units were 3.3 million tons in 2007.
- Acid deposition has declined significantly from levels measured before the implementation of the ARP in 1995. Surface water quality improvements in lakes and streams and related indicators from long-term monitoring show signs of ecosystem recovery. However, as evidenced by long-term monitoring and assessment data analyses, the relationship of emission reductions to ecological and air quality improvements is complex and not entirely commensurate with the level of ARP emission reductions, suggesting extenuating circumstances attributable to other source sectors or factors such as soil type and atmospheric chemistry.
- Estimated public health benefits from ARP emission reductions exceed program costs by a margin of more than 40:1.

The U.S. Environmental Protection Agency (EPA) publishes this annual report to update the public on the ARP and related programs, including emission reductions, compliance, and environmental results. After 13 years of implementation, monitoring, and assessment, the ARP has proven to be an effective and efficient means of meeting emission reduction goals under the CAA. A 2005 study estimated the program's benefits at \$122 billion annually in 2010, while cost estimates are around \$3 billion annually (in 2000 dollars).<sup>2</sup> In addition, data from 2007 show that the ARP has:

- Reduced annual SO<sub>2</sub> emissions by about 6.8 million tons since 1990 (43 percent). Sources emitted just below 8.95 million tons of SO<sub>2</sub> in 2007, well below the current annual emission cap of 9.5 million tons, and already below the statutory annual cap set for compliance in 2010.
- Cut annual NO<sub>x</sub> emissions by 3.4 million tons from 1990 levels. Emissions in 2007 from ARP-affected units were less than half the level anticipated without the program. Other efforts, such as the NO<sub>x</sub> Budget Trading Program (NBP) in the eastern United States, also contributed to this reduction.
- Led to significant decreases in acid deposition. For example, comparisons between the 1989–1991 and 2005–2007 observation periods show wet sulfate deposition decreased 35 percent in the Northeast and 33 percent in the Midwest. Wet nitrogen deposition also decreased between these periods with a decrease in the Northeast by 21 percent and in the Midwest by 7 percent. These reductions in sulfur and nitrogen deposition have resulted in positive changes in environmental indicators, including improved water quality in lakes and streams.
- Achieved full compliance in 2007 with the SO<sub>2</sub> allowance holding requirements and NO<sub>x</sub> emission limits.
- Reduced implementation costs by allowing sources to choose cost-effective compliance strategies.

- Created an SO<sub>2</sub> allowance market that has functioned with adequate liquidity and allowed all participants opportunities to profit from the cap and trade program and hedge risk while significantly reducing emissions.
- Required the most complete and accurate emission data reported and made those data available for agencies, researchers, affected sources, and the public.
- Delivered pioneering e-government results through comprehensive electronic data reporting and Web-based tools, by automating administrative processes, reducing paper use, and streamlining and simplifying online systems for doing business with EPA.

Despite the program's historic and projected benefits, EPA analyses of human health studies, data from long-term monitoring networks, and ecological assessments have revealed the need for additional emission reductions to protect human health and continue ecological recovery and protection. EPA has identified the need for further SO<sub>2</sub> and NO<sub>x</sub> controls on the power industry to address pollutant transport problems many states face in efforts to attain National Ambient Air Quality Standards (NAAQS) for ozone and fine particles. In response, EPA promulgated two new rules in 2005, the Clean Air Interstate Rule (CAIR)\* and the Clean Air Visibility Rule (CAVR). CAIR was designed to address transport of fine particles and ozone in the eastern United States, and CAVR was designed to improve visibility in national parks and wilderness areas.

For more information on the ARP, CAIR, and related programs, including additional information on SO<sub>2</sub> and NO<sub>x</sub> emissions, acid deposition monitoring, environmental effects of acid deposition, and detailed unit-level emission data, please visit EPA's Clean Air Markets Web site at [www.epa.gov/airmarkets](http://www.epa.gov/airmarkets).

*A 2005 study estimated the program's benefits at \$122 billion annually in 2010, while cost estimates are around \$3 billion annually (in 2000 dollars).*

\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

## EMISSION REDUCTIONS UNDER CAIR AND CAVR

Starting in 2009 and 2010, CAIR\* establishes regional caps on SO<sub>2</sub> and NO<sub>x</sub> emissions. Annual SO<sub>2</sub> emissions for affected eastern states are capped at 3.7 million tons in 2010 and 2.6 million tons in 2015. Annual NO<sub>x</sub> emissions for affected eastern states are capped at 1.5 million tons in 2009 and 1.3 million tons in 2015. CAIR will operate concurrently with the ARP, and EPA has identified strong signals that early CAIR compliance planning already has influenced ARP performance. In 2007, annual SO<sub>2</sub> emissions from ARP units dropped about 450,000 tons from 2006 levels despite a 3.6 percent increase in energy demand (as measured by heat input) from affected sources. Actions taken in anticipation of CAIR appear to have been the primary factor in this decline. All of the decrease is attributable to reduced SO<sub>2</sub> emissions from coal-fired units with add-on pollution control technology (scrubbers), despite an increase in use of coal-fired units.

CAVR addresses SO<sub>2</sub> and NO<sub>x</sub> emissions from 26 sectors, including EGUs in non-CAIR states located in the West and parts of New England. Affected sources under CAVR must reduce SO<sub>2</sub> and NO<sub>x</sub> emissions that impair visibility in national parks and wilderness areas. Notably, EPA allows states to establish additional regional cap and trade programs to accomplish these reductions from power plants and other stationary sources.



\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

# EMISSION REDUCTIONS



*Since 1990, ARP sources have reduced annual SO<sub>2</sub> and NO<sub>x</sub> emissions by more than 40 percent, while increasing electricity generation by 39 percent.*



# ORIGINS OF THE ACID RAIN PROGRAM

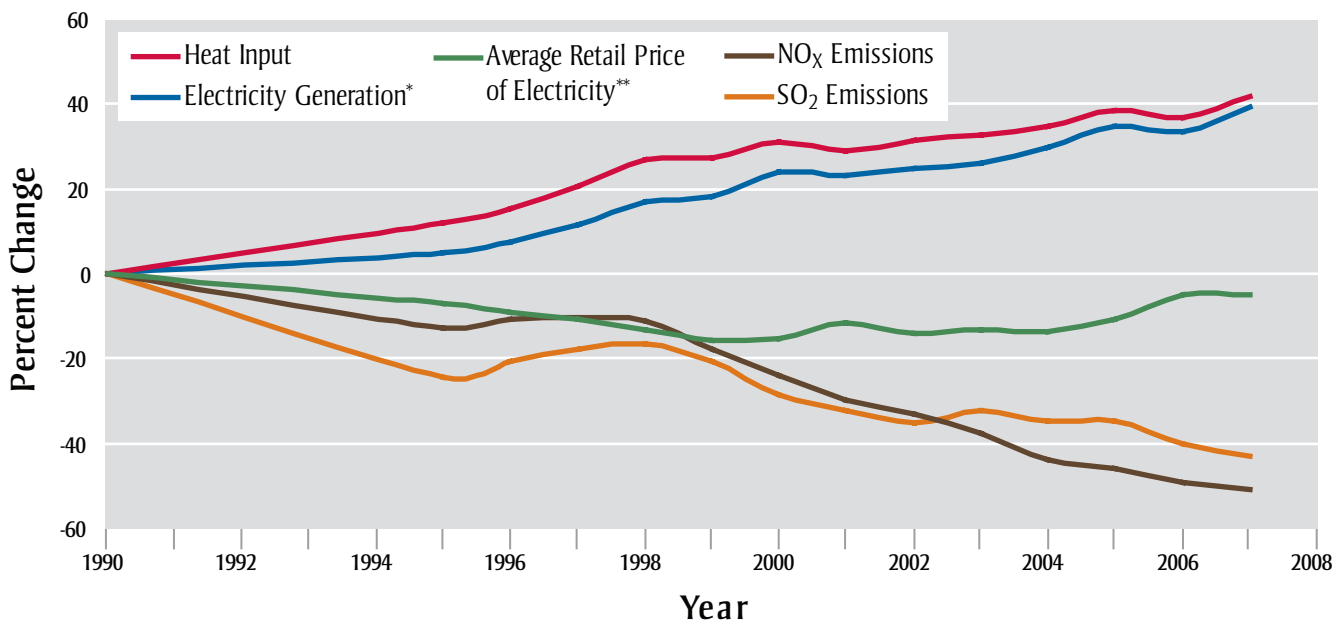
Acid deposition, more commonly known as acid rain, occurs when emissions of SO<sub>2</sub> and NO<sub>x</sub> from fossil fuel combustion react with water, oxygen, and oxidants in the atmosphere to form various acidic compounds. Prevailing winds transport these compounds hundreds of miles, often across state borders, where they diminish air quality, damage public health, acidify lakes and streams, harm sensitive forests and coastal ecosystems, degrade visibility, and accelerate the decay of building materials.

The ARP, established under Title IV of the 1990 CAA Amendments, requires major reductions of SO<sub>2</sub> and NO<sub>x</sub>

emissions from the electric power industry. The SO<sub>2</sub> program sets a permanent cap on the total amount of SO<sub>2</sub> that may be emitted by EGUs in the contiguous United States. The program is phased in, with the final 2010 SO<sub>2</sub> cap set at 8.95 million tons, a level of about one-half of the emissions from the power sector in 1980.

As seen in Figure 1, emissions of both SO<sub>2</sub> and NO<sub>x</sub> have decreased markedly under the ARP, while combustion of fossil fuels, measured as “heat input,” for electricity generation has increased significantly.

Figure 1: Trends in Electricity Generation, Fossil Energy Use, Prices, and Emissions from the Electric Power Industry



\* Generation from fossil fuel-fired plants.

\*\* Constant year 2000 dollars adjusted for inflation.

Source: Energy Information Administration (electricity generation, retail price); EPA (heat input and emissions, representing all affected ARP units), 2008

Using a market-based cap and trade mechanism to reduce SO<sub>2</sub> emissions allows flexibility for individual combustion units to select their own methods of compliance. Currently, one allowance provides a regulated unit limited authorization to emit 1 ton of SO<sub>2</sub>. The CAA Amendments allocate allowances to regulated units based on historic fuel consumption and specific emission rates prior to the start of the program. A small proportion of allowances is available at auction.<sup>3</sup> The total allowances allocated for each year equal the SO<sub>2</sub> emission cap. The program encourages early reductions by allowing sources to bank unused allowances from one year and use them in later years. Allowance banking provided a strong incentive in early years to achieve early reductions.

The ARP adopts a more traditional approach to achieve NO<sub>x</sub> emission reductions. Rate-based limits apply to most of the coal-fired electric utility boilers subject to the ARP. An owner can meet these NO<sub>x</sub> limits on an individual unit basis or through averaging plans involving groups of its units. Note that the ARP was originally implemented in two phases for SO<sub>2</sub> and NO<sub>x</sub>. Phase I applied primarily to the largest coal-fired electric generation sources from 1995–1999 for SO<sub>2</sub> and from 1996–1999 for NO<sub>x</sub>, while Phase II for both pollutants began in 2000, expanding coverage of the program, and tightening the SO<sub>2</sub> cap on affected sources.

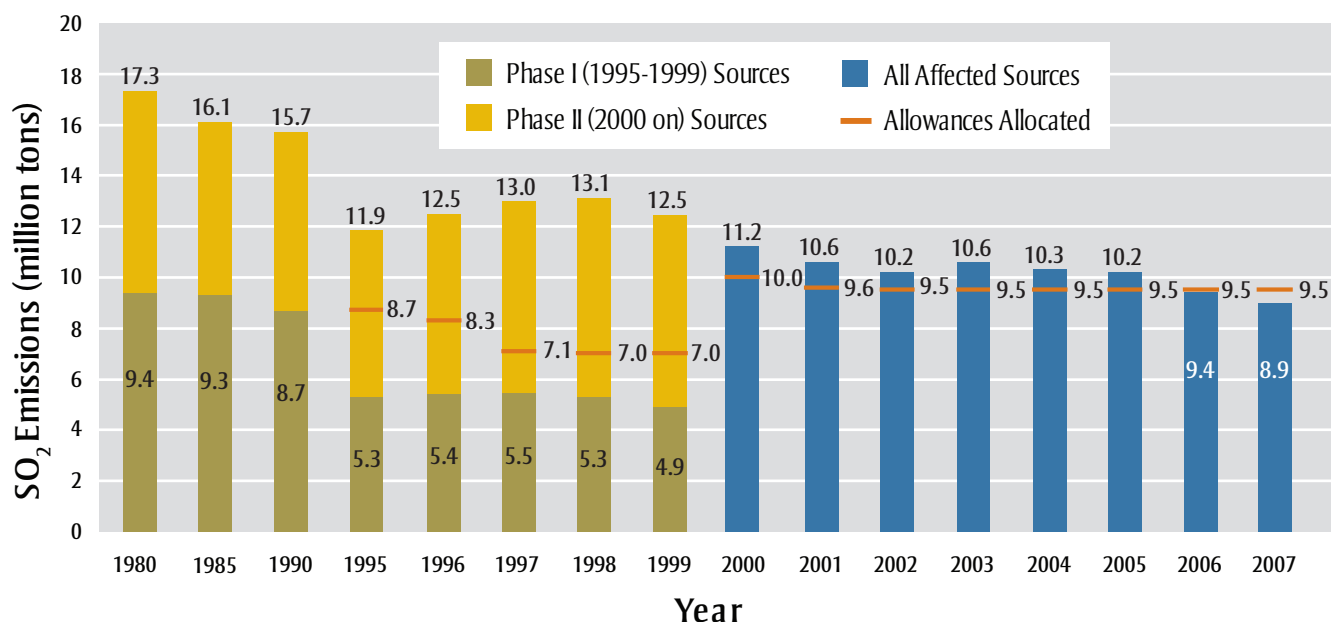
## SO<sub>2</sub> Emission Reductions

Electric power generation is by far the largest single source of SO<sub>2</sub> emissions in the United States, accounting for 69 percent of total SO<sub>2</sub> emissions nationwide.<sup>4</sup>

As shown in Figure 2, ARP sources have reduced annual SO<sub>2</sub> emissions by 49 percent compared with 1980 levels and 43 percent compared with 1990 levels. Reductions in SO<sub>2</sub> emissions from other sources not affected by the ARP (including industrial and commercial boilers and the metals and refining industries) and use of cleaner fuels in residential and commercial burners contributed to a similar overall decline (50 percent) in annual SO<sub>2</sub> emissions from all sources since 1980. National SO<sub>2</sub> emissions from all sources have fallen from nearly 26 million tons in 1980 to less than 13 million tons in 2007.<sup>5</sup>

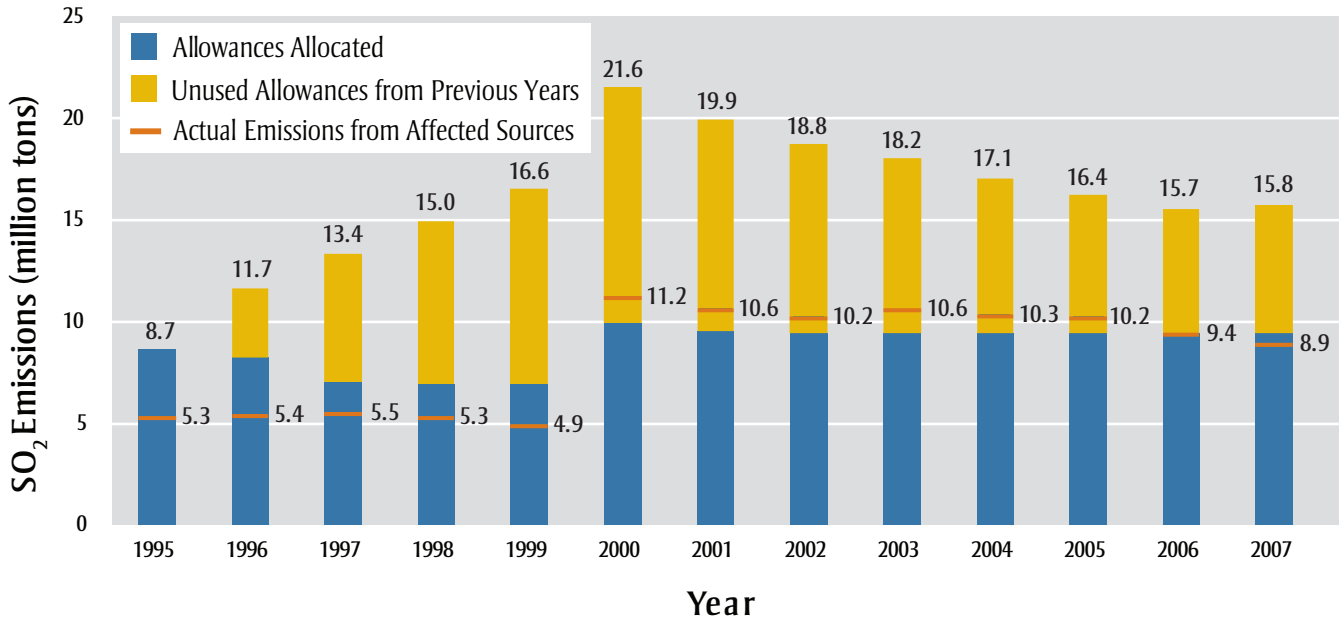
For 2007, EPA allocated over 9.5 million SO<sub>2</sub> allowances under the ARP. Together with over 6.2 million unused allowances carried over (or banked) from prior years, there were 15.8 million allowances available for use in 2007. Sources emitted approximately 8.9 million tons of SO<sub>2</sub> in 2007, less than the allowances allocated for the year, and far less than the total allowances available (see Figure 3).<sup>6</sup>

Figure 2: SO<sub>2</sub> Emissions from Acid Rain Program Sources



Source: EPA, 2008

Figure 3: SO<sub>2</sub> Emissions and the Allowance Bank, 1995–2007



Source: EPA, 2008

The number of banked allowances grew from about 6.2 million available for 2007 compliance to approximately 6.8 million available for 2008 and future years. In 2010, the total number of Title IV allowances allocated annually will drop to 8.95 million and remain statutorily fixed at that annual level. In the next few years, industry expectations of stringent emission reduction requirements under CAIR\* may encourage sources to pursue additional reductions, which would

increase the amount of banked allowances. However, CAIR contains tighter retirement ratios (that in effect lower the SO<sub>2</sub> emission cap). Because of the retirement ratios in the CAIR region, EPA projects that emissions will be significantly lower than the Title IV emission cap and that sources will deplete a large portion of the bank. Table 1 explains in more detail the origin of the allowances that were available in 2007, and Table 2 shows how those allowances were used.



\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

Table 1: Origin of 2007 Allowable SO<sub>2</sub> Emission Levels

Type of Allowance Allocation	Number of SO <sub>2</sub> Allowances	Explanation of Allowance Allocation Type
Initial Allocation	9,191,897	Initial allocation is the number of allowances granted to units* based on the product of their historical utilization and emission rates specified in the CAA.
Allowance Auction	250,000	The allowance auction provides allowances to the market that were set aside in a special allowance reserve when the initial allowance allocation was made.
Opt-in Allowances	97,678	Opt-in allowances are provided to units entering the program voluntarily. There were eight opt-in units in 2007.
<b>Total 2007 Allocation</b>	<b>9,539,575</b>	
Total Banked Allowances**	6,236,555	Banked allowances are those allowances accrued in an ARP account from previous years, which can be used for compliance in 2007 or any future year.
<b>Total 2007 Allowable Emissions</b>	<b>15,776,130</b>	

\* In this report, the term “unit” means a fossil fuel-fired combustor that serves a generator that provides electricity for sale. The vast majority of SO<sub>2</sub> emissions under the program result from coal-fired generation units, but oil and natural gas units are also included in this program.

\*\*Total banked allowances are adjusted from the 2006 Progress Report to account for additional allowance deductions made after the 2006 reconciliation was completed.

Source: EPA, 2008

Table 2: SO<sub>2</sub> Allowance Reconciliation Summary, 2007

Total Allowances Held (1995–2007 vintages)	15,776,130
Facility Accounts	12,384,707
General Accounts	3,391,423
Allowances Deducted for Emissions*	8,933,291 **
Penalty Allowance Deductions ( 2008 Vintage)	0
Banked Allowances	6,842,839
Facility Accounts	3,451,416
General Accounts	3,391,423

\*Includes 536 allowances deducted from opt-in sources for reduced utilization.

\*\*This total reflects the resolution of petitions regarding the amount of emissions subject to compliance. This number is approximately 12,000 tons less than the total emissions used elsewhere in the report, which are based on emissions reported as of July 1, 2008.

Source: EPA, 2008

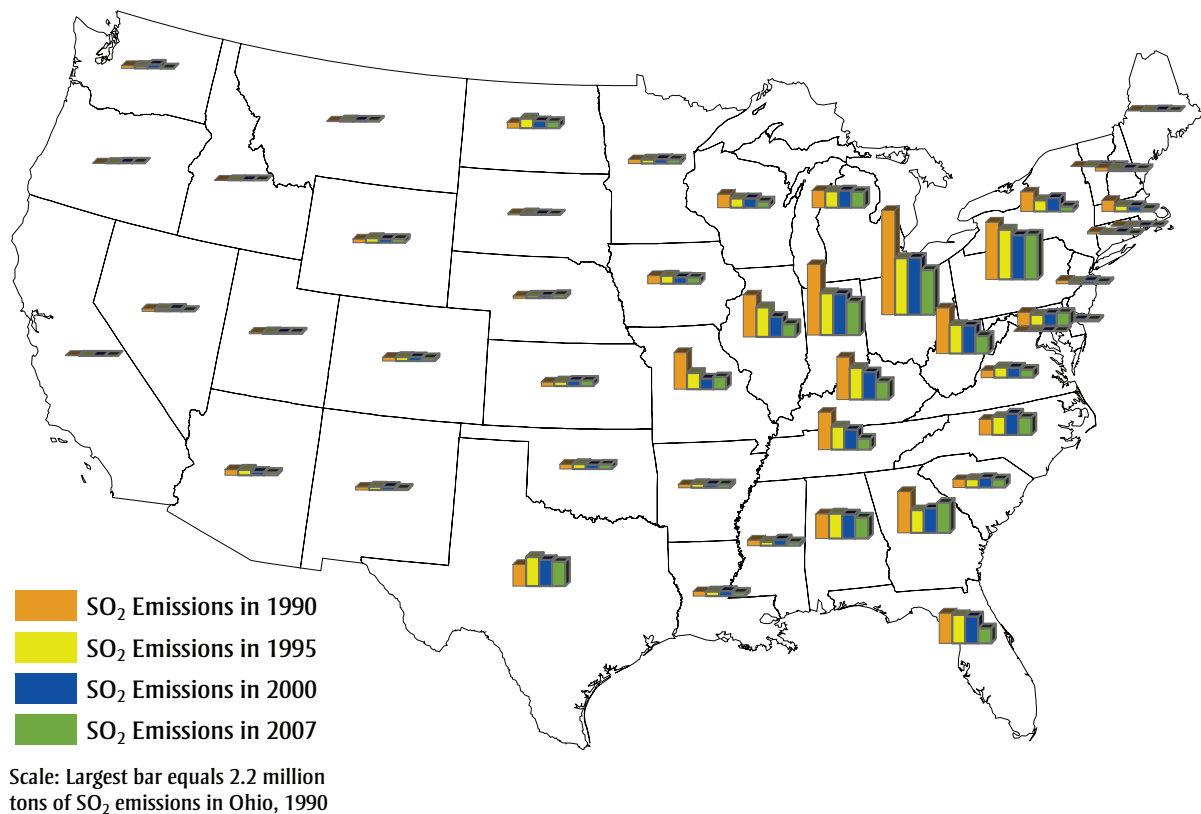
From 2006 to 2007, reductions in SO<sub>2</sub> emissions from ARP units in 30 states and the District of Columbia totaled about 558,000 tons. Increases in 18 states totaled about 108,000 tons, resulting in a net national decrease of 450,000 tons, or about 5 percent for the year. Five states (Indiana, Kentucky, North Carolina, South Carolina, and West Virginia) accounted for most of the reductions in 2007, ranging from 47,000 to 106,000 tons of SO<sub>2</sub> in each of these states. Among the states with annual SO<sub>2</sub> emission increases between 2006 and 2007, Pennsylvania contributed a majority of the added emissions. Pennsylvania experienced an increase of approximately 57,000 tons (or 6 percent above the state's 2006 total SO<sub>2</sub> emissions). Fluctuations of a similar magnitude have occurred in five of the past six years in the state (most recently, SO<sub>2</sub> emissions declined 91,315 tons from 2005 to 2006). The 2006 to 2007 fluctuation can most likely be attributed to a normal fluctuation in electricity demand since there were corresponding increases ranging from 4 to 7 percent in gross load (megawatt hours of electricity), heat input, and unit

operating time. In addition, there was a small increase in the SO<sub>2</sub> emission rate.

The states with the highest emitting sources in 1990 have generally seen the greatest SO<sub>2</sub> reductions under the ARP (see Figure 4). Most of these states are upwind of the areas the ARP was designed to protect, and reductions have resulted in important environmental and health benefits over a large region.

In 2007, annual SO<sub>2</sub> emissions in 34 states and the District of Columbia fell by a total of approximately 7.0 million tons from 1990. In contrast, annual SO<sub>2</sub> emissions increased by a total of 172,000 tons in 14 states from 1990 to 2007. The seven states with the greatest reductions in annual emissions since 1990 include Ohio, which decreased emissions by nearly 1.3 million tons, and Illinois, Indiana, Kentucky, Missouri, Tennessee, and West Virginia, each of which reduced total emissions during this time period by more than 500,000 tons.

Figure 4: State-by-State SO<sub>2</sub> Emission Levels for Acid Rain Program Sources, 1990–2007



Source: EPA, 2008

## WHY SO<sub>2</sub> EMISSIONS DECREASED IN 2007

In 2007, SO<sub>2</sub> emissions from sources regulated under the ARP fell below 8.95 million tons, thereby reaching the 2010 emission cap three years earlier than required by statute. Overall, SO<sub>2</sub> emissions decreased by about 450,000 tons from 2006 levels (see Table 3). Heat input (measured in million British thermal units [mmBtu]) increased for coal, oil, and gas-fired units, indicating that emissions decreased even as electricity demand grew.

A major factor in the SO<sub>2</sub> emission decrease was the use of flue gas desulfurization (FGD) systems (also called scrubbers) at 247 ARP coal-fired units in 2007 versus only 226 in 2006. The increase in coal-fired units with scrubbers reduced the number of uncontrolled units and thereby reduced the overall SO<sub>2</sub> emission rate for the coal-fired units. In addition, the average annual emission rate for the units using scrubbers declined from 2006 to 2007 (0.352 versus 0.318 lb/mmBtu), further reducing the overall coal-fired average annual SO<sub>2</sub> emission rate. It is of historical interest that the ARP allowance allocations for Phase II in 2000 were based on 1.2 lb/mmBtu.

With the exception of reductions that might have occurred as a result of enforcement actions (such as reductions in South Carolina that were required under a consent decree), most of the SO<sub>2</sub> reductions in 2007 are likely to have resulted from early compliance planning for CAIR.\* While some states have regulations that will require SO<sub>2</sub> reductions in future years (such as North Carolina's Clean Smokestacks Act in 2009), a reason for installing and operating the controls in 2007 was the significant incentive to bank pre-CAIR vintage SO<sub>2</sub> allowances. Those allowances could be used on a 1:1 basis under the CAIR annual SO<sub>2</sub> program. In contrast, ARP allowances with later vintage years would be subject to increased retirement ratios under CAIR (2:1 in 2010 through 2014, and 2.86:1 in 2015 and thereafter). Going forward, the court decision might affect sources' compliance planning and the observed trends in SO<sub>2</sub> emission reductions.

**Table 3: SO<sub>2</sub>, NO<sub>x</sub>, and Heat Input Trends in Acid Rain Program Units, by Fuel Type**

Fuel Type	2004			2005			2006			2007		
	SO <sub>2</sub>	NO <sub>x</sub>	HI	SO <sub>2</sub>	NO <sub>x</sub>	HI	SO <sub>2</sub>	NO <sub>x</sub>	HI	SO <sub>2</sub>	NO <sub>x</sub>	HI
Coal	9,840	3,484	20.49	9,836	3,356	20.77	9,247	3,209	20.45	8,780	3,075	20.77
Oil	378	139	1.00	350	130	1.00	135	64	0.58	149	69	0.62
Gas	36	133	4.83	34	141	5.34	7	130	5.71	10	140	6.32
Other	3	6	0.03	3	6	0.03	7	7	0.05	7	5	0.05
Total	10,256	3,762	26.35	10,223	3,633	27.14	9,396	3,410	26.80	8,946	3,289	27.76

Notes:

- All emission data are in thousand tons, and all heat input data are in quadrillion Btu (Quads).
- Totals might not reflect individual rows due to rounding.
- Fuel type represents primary fuel type, and many units might combust more than one fuel.
- Data are current as of July 1, 2008, and may differ from past reports as a result of report resubmissions by sources and ongoing data quality assurance activities.

Source: EPA, 2008

\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

## SO<sub>2</sub> Program Compliance

Approximately 9 million allowances were deducted from sources' accounts in 2007 to cover emissions. Table 2 displays these allowance deductions, as well as the remaining banked allowances from 1995 through 2007. In 2007, all ARP facilities complied with the requirement to hold enough allowances to cover SO<sub>2</sub> emissions. The ARP's cap and trade approach offers sources the flexibility to comply with regulations using their choice of the most cost-effective strategies available. Since the program's inception, the compliance rate has consistently been extraordinarily high (over 99 percent). Notably, in those few cases where there is noncompliance, sources must surrender future year allowances in an amount equivalent to the excess emissions, and pay a monetary penalty. Title IV set a penalty of \$2,000 per ton in 1990, which is adjusted annually for inflation. The 2007 penalty level was set at \$3,273 per excess ton.

## SO<sub>2</sub> Allowance Market

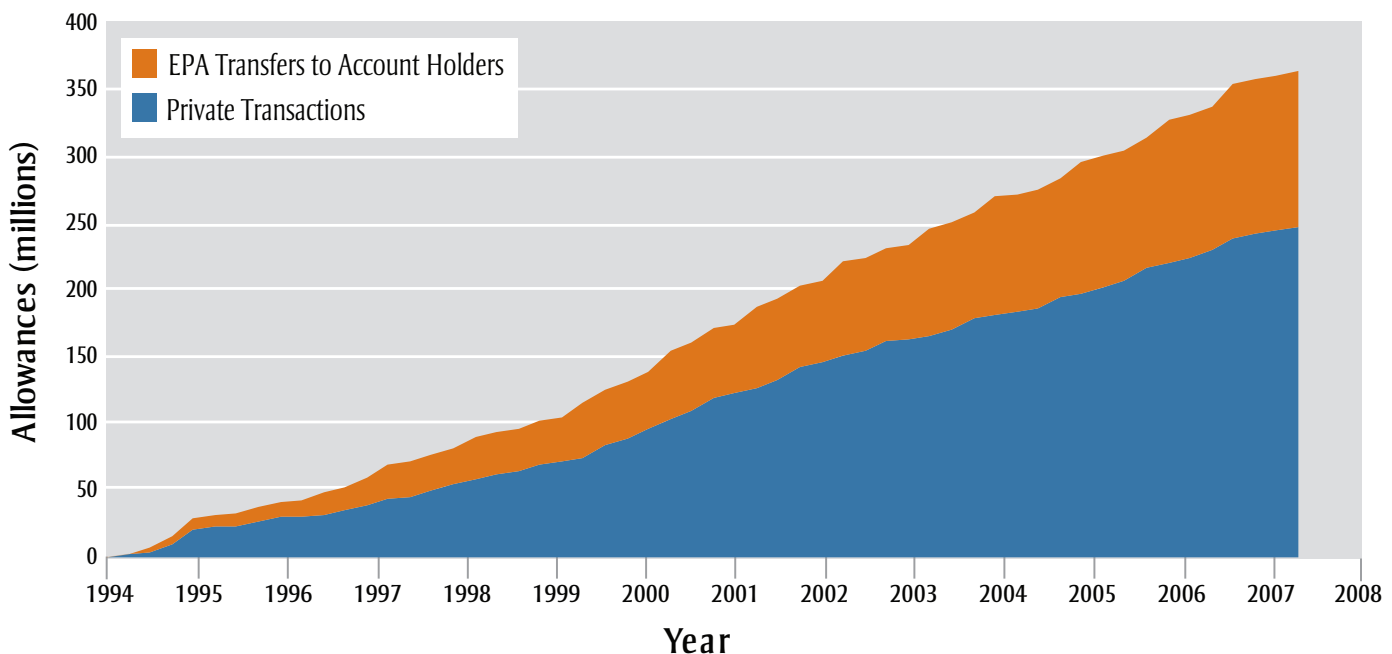
Figure 5 shows the cumulative volume of SO<sub>2</sub> allowances transferred under the ARP. The figure differentiates between allowances transferred in private transactions and those annually allocated and transferred to source accounts by EPA.

2007 SO <sub>2</sub> ALLOWANCE MARKET IN BRIEF	
Total Value of the SO <sub>2</sub> Allowance Market	\$5.1 billion*
Average Nominal Price	\$325 per ton
Total Allowance Volume (Allowable Emissions)	15,776,130
2007 Private Transactions	4,700 transactions moving 16.9 million allowances  54 percent of allowances transferred between economically unrelated parties

\* Total value of allowance market is a snapshot based on the average nominal price as of July 1, 2007 (\$325) and 2007 total allowance volume.

Private transactions are indicative of both market interest and use of allowances as a compliance strategy. Of the nearly 356 million allowances transferred since 1994, about 68 percent were traded in private transactions. In December 2001, parties began to use a system developed by EPA to allow online allowance transfers. In 2007, account holders registered over 99 percent of all private allowance transfers through EPA's online transfer system.<sup>7</sup>

Figure 5: Cumulative SO<sub>2</sub> Allowances Transferred through 2007



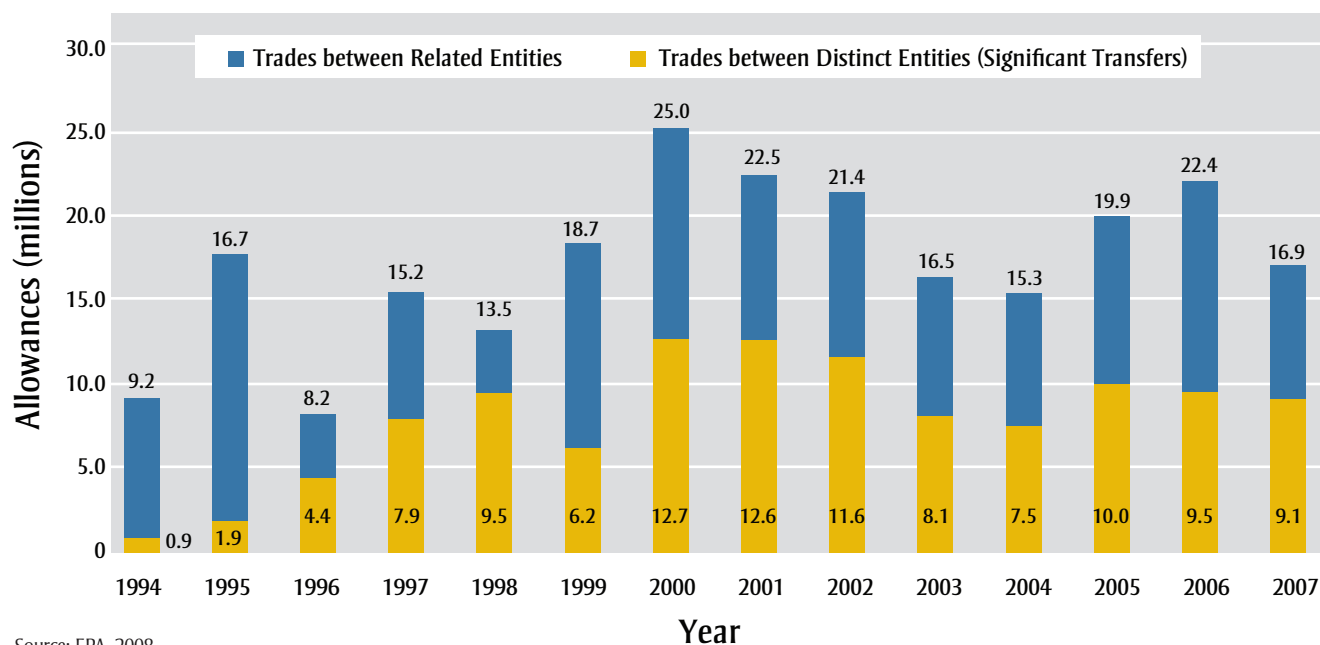
Source: EPA, 2008

In 2007, nearly 4,700 private allowance transfers moving roughly 16.9 million allowances of past, current, and future vintages were recorded in the EPA Allowance Tracking System. About 9.1 million (54 percent) were transferred in economically significant transactions (i.e., between economically unrelated parties). Transfers between economically unrelated parties are “arm’s length” transactions and are considered a better indicator of an active, functioning

market than are transactions among the various facility and general accounts associated with a given company.

In the majority of all private transfers, allowances were acquired by power companies. Figure 6 shows the annual volume of SO<sub>2</sub> allowances transferred under the ARP (excluding allocations, retirements, and other transfers by EPA) since official recording of transfers began in 1994.

Figure 6: SO<sub>2</sub> Allowances Transferred under the Acid Rain Program



Source: EPA, 2008

## SO<sub>2</sub> ALLOWANCE AUCTION

In addition to the annual allowance allocation, Title IV requires an auction for a limited number of allowances. EPA has been auctioning allowances for 15 years. The auctions help ensure that new electric generating plants have a source of allowances beyond those allocated initially to existing units. Proceeds from the auctions are returned to sources in proportion to the allowances withheld. In addition to allowances offered by EPA, private parties may offer allowances for sale in the auction. All data regarding allowance auction transactions are available online.

The auction includes two “vintages” of allowances. Vintage describes the earliest year an allowance may be applied against SO<sub>2</sub> emissions. For instance, this year, in addition to 125,000 year 2008 allowances, the CAA mandates that EPA auction additional allowances seven years in advance to help provide stability in planning for capital investment. These advance allowances will be first usable in 2015. The auction of allowances has become an increasingly popular idea over time, with some states using this approach in recent years and others setting up programs for future years that incorporate auctions.

In 2008, the allowance auction sale prices are very much in line with expectations for this trading market. EPA has seen prices between \$300 and \$630 over the last year, an increase from where they were four to five years ago. The prices for the last couple of years have been relatively stable and declining somewhat, while remaining in rough alignment with market fundamentals. Complete results of the annual SO<sub>2</sub> Allowance Auction are available at <<http://www.epa.gov/airmarkets/trading/auction.html>>.



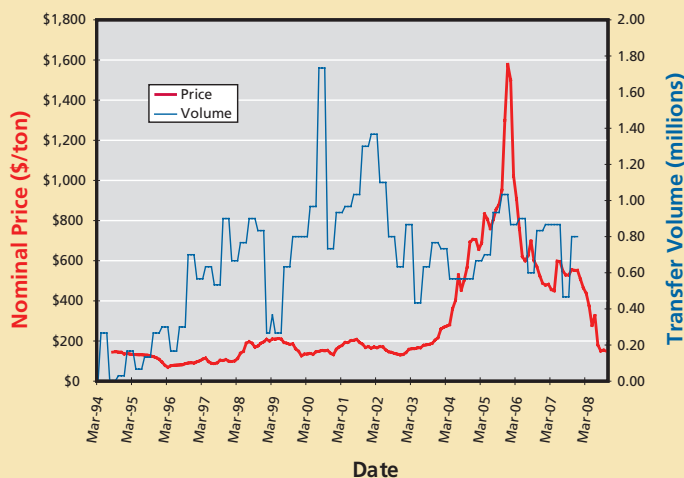
## CAIR AND THE SO<sub>2</sub> TRADING MARKET

In 2007, trading continued similar to the final quarter of 2006. Prices began the year at approximately \$500/ton and held between \$500 and \$600 per ton throughout the year. The market price index (MPI) was \$551 in December 2007, identical to EPA's projected allowance price for pre-2010 vintages (in 2007 dollars).<sup>8</sup>

However, prices began to fall in early 2008. In October 2008, spot market prices for the earlier vintages were trading for \$142 to \$157 per ton after reaching a low of \$93 per ton in late July. In October, 2010 vintages were trading for \$93 per ton.<sup>9</sup> These prices are considerably lower than the \$551 (pre-2010) and \$276 (2010–2014) prices projected by EPA. Most market observers characterized this price depression as a result of the uncertainty related to the CAIR\* litigation.

Assessing the ratio of the spot trading price in 2008 to the future 2010 trading price seems to support the litigation uncertainty hypothesis. Prior to the CAIR oral arguments in March 2008, spot market allowances were trading at roughly twice the price of 2010 allowances, as would be expected under CAIR's 2:1 allowance surrender requirements. However, this ratio dropped following the oral arguments, aligning more closely with a scenario in which one allowance would be surrendered at a 1:1 ratio. With the December 23, 2008 court decision, EPA anticipates that the price differential between spot market and 2010 vintage prices may be closer to the 2:1 ratio observed prior to the March 2008 oral arguments.

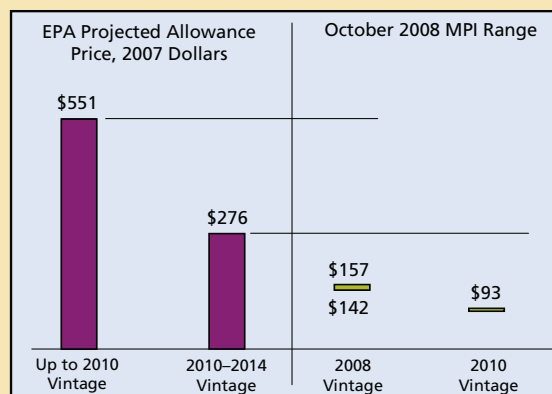
**Figure 7: SO<sub>2</sub> Allowance Trading Volume and Prices, March 1994–October 2008**



Note: Transfer volume data provided only through December 2007.

Source: EPA (transfer volume); CantorCO2e (price), 2008

**Figure 8: Actual and Forecasted SO<sub>2</sub> Allowance Prices**



Source: EPA (projected price); CantorCO2e (MPI), 2008

\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

## NO<sub>x</sub> Emission Reductions and Compliance

Title IV requires NO<sub>x</sub> emission reductions for certain coal-fired EGUs by limiting the NO<sub>x</sub> emission rate (expressed in lb/mmBtu). Congress applied these rate-based emission limits based on a unit's boiler type (see Table 4).

Although the ARP NO<sub>x</sub> program does not involve a cap on emissions, Congress set a program goal of 6.1 million tons from all ARP sources by 2000. The goal represents a 2 million ton reduction in annual NO<sub>x</sub> emissions from the NO<sub>x</sub> emission levels that were projected to occur in 2000 absent the ARP (8.1 million tons). This goal was first achieved in 2000 and has been met every year thereafter, including 2007. Figure 9 shows that NO<sub>x</sub> emissions from all ARP sources were 3.3 million tons in 2007. This level is 4.8 million tons less than the projected level in 2000 without the ARP, or more than double the Title IV NO<sub>x</sub> emission reduction objective. These reductions have been achieved even though the amount of fossil fuel burned to produce electricity (as measured by heat input) at EGUs in 2007 has increased 42 percent since

1990. While the ARP was responsible for a large portion of these annual NO<sub>x</sub> reductions, other programs—such as the Ozone Transport Commission (OTC), the NBP under EPA's NO<sub>x</sub> State Implementation Plan (SIP) Call, and other regional and state NO<sub>x</sub> emission control programs—also contributed significantly to the NO<sub>x</sub> reductions achieved by sources in 2007.

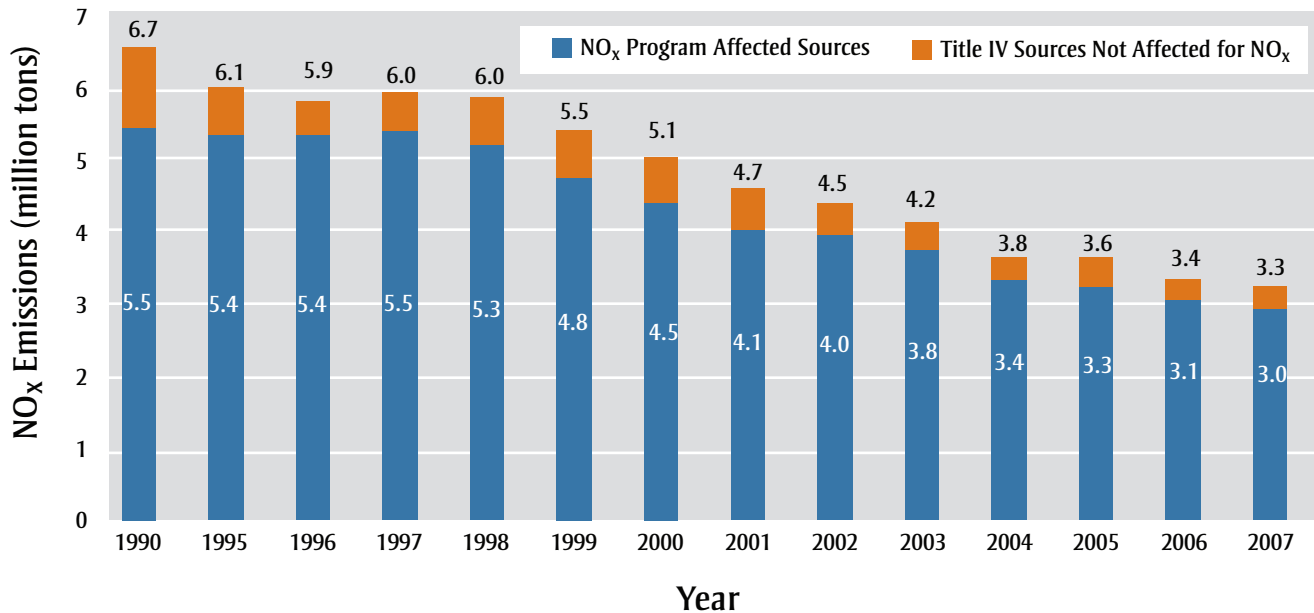
From 1995 to 2007, annual NO<sub>x</sub> emissions from ARP units dropped by about 2.8 million tons, a net decrease of about 46 percent. Forty-one states and the District of Columbia reduced NO<sub>x</sub> emissions during this period versus seven states that accounted for only about 31,000 tons of increased NO<sub>x</sub> emissions during the same period (see Figure 10). From 2006 to 2007, annual NO<sub>x</sub> emissions from ARP sources were relatively flat, with a modest decrease of 121,000 tons or 3.5 percent. North Carolina had the largest one-year decrease, reducing emissions by about 44,000 tons, which in large part appears to be a result of the 2007 NO<sub>x</sub> requirement in the state's Clean Smokestacks Act. A number of states outside the NBP region, including Florida, Iowa, Kansas, Texas, and Wisconsin, reduced NO<sub>x</sub> emissions by more than 7,000 tons each from 2006 levels.

Table 4: NO<sub>x</sub>-Affected Title IV Units by Boiler Type and NO<sub>x</sub> Emission Limit

Coal-Fired Boiler Type	Title IV Standard NO <sub>x</sub> Emission Limits (lb/mmBtu)	Number of Units
Phase I Group 1 Tangentially fired	0.45	132
Phase I Group 1 Dry Bottom, Wall-fired	0.50	113
Phase II Group 1 Tangentially fired	0.40	300
Phase II Group 1 Dry Bottom, Wall-fired	0.46	294
Cell Burners	0.68	37
Cyclones > 155 MW	0.86	54
Wet Bottom > 65 MW	0.84	22
Vertically fired	0.80	26
<b>Total All Units</b>	<b>N/A</b>	<b>978</b>

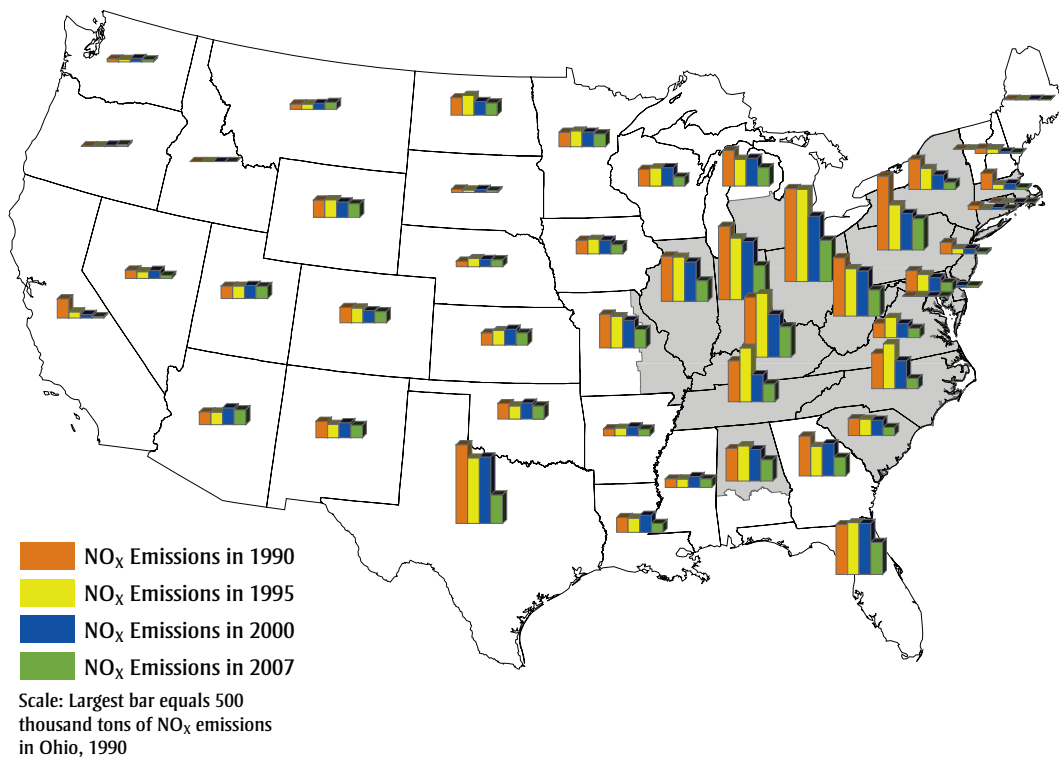
Source: EPA, 2008

Figure 9: NO<sub>x</sub> Emission Trends for All Acid Rain Program Units, 1990–2007



Source: EPA, 2008

Figure 10: State-by-State NO<sub>x</sub> Emission Levels for Acid Rain Program Sources, 1990–2007



- Notes:
- Emissions are for all ARP sources, not only the coal-fired units subject to the ARP NO<sub>x</sub> Program.
  - NBP states shaded in gray.

Source: EPA, 2008

As with SO<sub>2</sub>, the states with the highest NO<sub>x</sub>-emitting sources in 1990 have tended to see the greatest power plant NO<sub>x</sub> emission reductions (see Figure 10). About half of the 13 states with NO<sub>x</sub> emission decreases of more than 100,000 tons since 1990 were in the Ohio River Basin. Indiana, Kentucky, Ohio, Pennsylvania, and West Virginia account for well over 1 million tons of NO<sub>x</sub> emission reductions from 1990 to 2007.

The ARP NO<sub>x</sub> Program does not impose a cap on NO<sub>x</sub> emissions and does not rely on allowance trading. The ARP NO<sub>x</sub> Program, however, provides compliance flexibility achieved through an approach that is designed to maximize NO<sub>x</sub> emission reductions and ensure that those reductions are sustained. Under the ARP, EPA allows affected sources to comply by either meeting a unit-specific emission rate or including two or more units in an emission rate averaging plan. These options provide affected sources with the flexibility to meet the NO<sub>x</sub> emission reduction requirements in the most cost-effective manner. In 2007, all 978 units that were subject to the ARP NO<sub>x</sub> Program achieved compliance.

About one-third of these units chose to comply with a unit-specific emission rate. There are three types of unit-specific emission rates: a standard emission limit; an early election limit; or an alternative emission limit (AEL) (see accompanying text box). Not only did all units that chose to meet a unit-specific emission limit achieve compliance in 2007, most units that complied based on early election or AEL-based limits even met the standard limits (See Table 4).

Sources can also meet the NO<sub>x</sub> limits through averaging plans for a group of units. All the units in a plan must share a common owner and designated representative. Through this approach, utilities may allow certain units to exceed the applicable NO<sub>x</sub> emission rate limit, provided this exceedance

is offset entirely by unit(s) that have a NO<sub>x</sub> emission rate that falls below the applicable standard. About two-thirds of the 978 NO<sub>x</sub> affected units achieved compliance through an averaging plan.

For those units under an averaging plan, 86 percent (561 units) reported NO<sub>x</sub> emission rates below the standard that would have applied on a unit-specific basis. In fact, there were 31 averaging plans for which no units exceeded the applicable standard. As such, all of the units covered under these plans could have complied with the NO<sub>x</sub> emission rate requirements without the use of an averaging plan. Most of these plans had less than 10 units in the averaging plan. However, about seven of these plans included more than 10 units, with one of those covering a total of 58 units.

For each of the averaging plans, the actual average NO<sub>x</sub> emission rate reported was below the plan's allowable NO<sub>x</sub> emission rate. On average, the reported NO<sub>x</sub> emission rate for each averaging plan was lower than the allowable rate by 0.19 lb/mmBtu. The number of units in each averaging plan ranged from two units to nearly 70 units. Most averaging plans included a smaller number of units, with 49 plans covering less than 15 units each, and 25 plans covering less than five units each. Only five averaging plans cover more than 25 units. However, even using a weighted average to account for the varying size of each averaging plan, the reported NO<sub>x</sub> emission rate was lower than the allowable rate by an average of 0.20 lb/mmBtu, similar to the unweighted average. These data indicate that allowing compliance through an averaging plan has been successful in helping to achieve additional NO<sub>x</sub> emission reductions, while allowing sources some flexibility in determining and implementing a cost-effective compliance option.

## SOURCES ACHIEVED 100 PERCENT NO<sub>x</sub> COMPLIANCE IN 2007, USING A VARIETY OF NO<sub>x</sub> COMPLIANCE PLAN OPTIONS

**Standard Limitation.** A unit with a standard limit meets the applicable individual NO<sub>x</sub> limit prescribed for its boiler type under 40 CFR 76.5, 76.6, or 76.7 (126 units used this option in 2007).

**Early Election.** In return for accepting a NO<sub>x</sub> limit three years earlier than would normally be required, an early election unit does not become subject to the more stringent Phase II NO<sub>x</sub> limit until 2008 (197 units used the early election provisions for compliance in 2007).

**Alternative Emission Limit (AEL).** A utility can petition for a less stringent AEL if it properly installs and operates the NO<sub>x</sub> emission reduction technology prescribed for that boiler, but is unable to meet its standard limit. EPA determines whether an AEL is warranted based on analyses of emission data and information about the NO<sub>x</sub> control equipment (nine units used this option in 2007).

**Emissions Averaging.** Many companies meet their NO<sub>x</sub> emission reduction requirements by choosing to become subject to a group NO<sub>x</sub> limit, rather than by meeting individual NO<sub>x</sub> limits for each unit. The group limit is established at the end of each calendar year. The group rate must be less than or equal to the Btu-weighted group rate units would have had if each had emitted at their standard limit rate (646 units used this option in 2007). Note that 68 units that used an emissions averaging plan also had an early election emission limit, but used the averaging plan as their compliance approach.

Note: Unit counts do not include those with a retired unit exemption.

## ROLE OF SEASONAL NO<sub>x</sub> CONTROL PROGRAMS IN REDUCING ANNUAL EMISSIONS

States subject to EPA's 1998 NO<sub>x</sub> SIP Call have achieved significant reductions in ozone season NO<sub>x</sub> emissions since the baseline years 1990 and 2000. All of these states have achieved reductions since 1990 as a result of programs implemented under the 1990 CAA Amendments, with many of them reducing their emissions by more than half since 1990. A significant portion of these decreases in NO<sub>x</sub> emissions has been achieved since 2000, largely as a result of reductions under the OTC program and the NBP. Further reductions in annual NO<sub>x</sub> emissions were achieved in 2007. Possible reasons for this decline could include:

- Eight new selective catalytic reduction systems (SCR) and four new selective noncatalytic reduction systems (SNCR) were installed in 2007.
- Sources might have taken advantage of incentives for generation of early action (compliance supplement pool [CSP]) allowances intended for use under the CAIR\* annual NO<sub>x</sub> program that would have begun in 2009.

For NBP compliance reports, see <[www.epa.gov/airmarkets/progress/progress-reports.html](http://www.epa.gov/airmarkets/progress/progress-reports.html)>.

\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

## Emission Monitoring and Reporting

The ARP requires regulated sources to measure, record, and report emissions using continuous emission monitoring systems (CEMS) or an approved alternative measurement method. The vast majority of emissions are monitored with CEMS while the alternatives provide an efficient means of monitoring emissions from the large universe of units with lower overall mass emissions. Figures 11 and 12 show the number of units with and without SO<sub>2</sub> CEMS for various fuel types, as well as the amount of SO<sub>2</sub> emissions monitored using CEMS. Even though only 32 percent of units use CEMS, this covers nearly 99 percent of all SO<sub>2</sub> emissions from ARP sources.

CEMS and approved alternatives are a cornerstone of the ARP's accountability and transparency. Since the program's inception in 1995, affected sources have met stringent monitoring quality assurance and control requirements, and reported hourly emission data in quarterly electronic reports to EPA. Using automated software audits, EPA rigorously checks the completeness, quality, and integrity of these data. All emission data are available to the public on the Data and Maps Web site maintained by EPA's Clean Air Markets



Division (CAMD) at <<http://camddataandmaps.epa.gov/gdm/>>. The site also provides access to other data associated with emission trading programs, including reports, queries, maps, charts, and file downloads covering source information, emissions, allowances, program compliance, and air quality.

The emission monitoring requirements for the ARP are found in 40 CFR Part 75. These provisions are also required for participation in the NBP. The Part 75 requirements will be used in the future to implement CAIR.\*

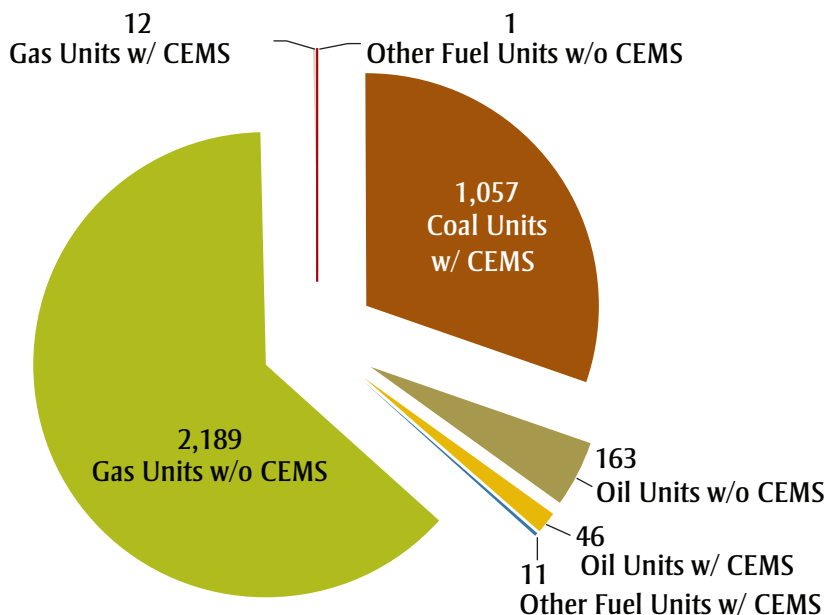
### EMISSIONS COLLECTION AND MONITORING PLAN SYSTEM (ECMPS)

CAMD recently reengineered the process the regulated community uses to maintain, evaluate, and submit monitoring plans, quality assurance certifications, and quarterly emission data. An important tool in this effort is the Emissions Collection and Monitoring Plan System (ECMPS). ECMPS will replace the current processes and multiple software tools used previously for evaluating, submitting, and receiving compliance-related information. Data submitted via ECMPS must meet a basic level of quality. If an evaluation generates a "critical" error, sources will be able to submit data to meet the regulatory deadline, but then must resolve errors and resubmit their data. ECMPS also has an expanded set of data validation checks that would assist EPA in implementing improved auditing as sources begin to comply with CAIR. The first group of sources began using ECMPS on an optional basis beginning on April 1, 2008. Beginning in 2009, affected sources are required to report using the ECMPS software. ECMPS incorporates the following components:

- A single desktop tool, made available by EPA, for authorized users to import and evaluate their data and to submit it to CAMD.
- A new data reporting format based on the flexible Extensible Markup Language (XML) standard.
- A centralized database at CAMD for receiving and maintaining submitted data, which can be accessed directly through the desktop tool.
- Tools and procedures for the quality assurance of data prior to submission, including the consolidation of evaluation results (feedback) into one set.
- The ability to maintain select data outside of the electronic data report.
- New security requirements.

\* On July 11, 2008, the U.S. Court of Appeals for the D.C. Circuit issued a ruling vacating CAIR in its entirety and remanding to EPA for further rulemaking consistent with the opinion. On December 23, 2008, the court granted EPA's petition for rehearing to the extent that it remanded the case without vacatur of CAIR. Under this ruling, CAIR remains in place as originally promulgated pending EPA's future rulemaking response.

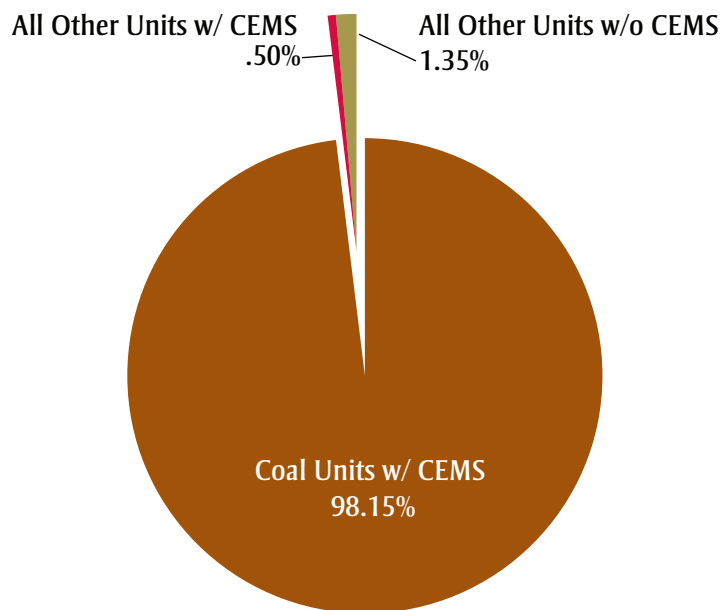
Figure 11: SO<sub>2</sub> Monitoring Methodology for the Acid Rain Program, Number of Units



Note: "Other fuel units" include units that in 2007 combusted primarily wood, waste, or other nonfossil fuel. The total number of units in Figure 11 excludes 57 affected units that did not operate in 2007.

Source: EPA, 2008

Figure 12: Percentage of SO<sub>2</sub> Emissions Covered by Monitoring Methodology for the Acid Rain Program



Source: EPA, 2008



# ENVIRONMENTAL RESULTS

*The percentage of Northeastern lakes monitored on a long-term basis that are categorized as of “acute concern” for their ability to neutralize acid deposition has fallen from 30 to 18 percent. This improvement is in large part due to ARP SO<sub>2</sub> emission reductions.*



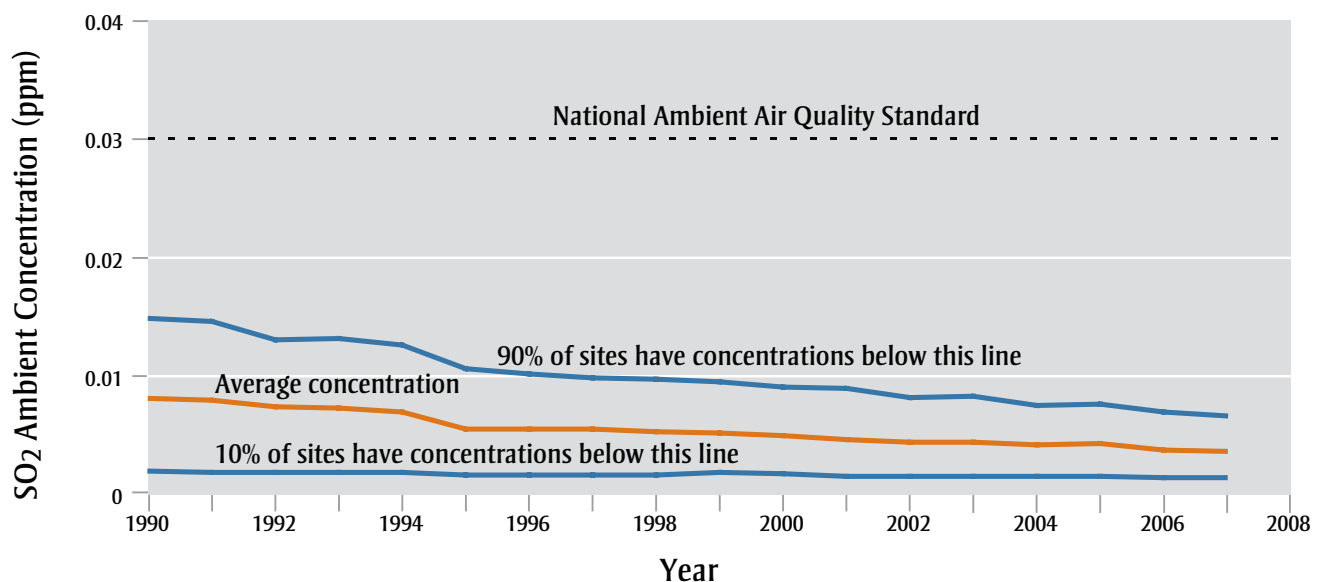
# STATUS AND TRENDS IN AIR QUALITY, ACID DEPOSITION, AND ECOLOGICAL EFFECTS

The emission reductions achieved under the ARP have led to important environmental and public health benefits. These include improvements in air quality with significant benefits to human health; reductions in acid deposition; the beginnings of recovery from acidification in fresh water lakes and streams; improvements in visibility; and reduced risk to forests, materials, and structures. Table 5 on page 22 shows the regional changes in key air quality and atmospheric deposition measurements linked to the ARP's SO<sub>2</sub> and NO<sub>x</sub> emission reductions.

## Air Quality Sulfur Dioxide

Data collected from monitoring networks show that the decline in SO<sub>2</sub> emissions from the power industry has improved air quality. Based on EPA's latest air emission trends data located at <[www.epa.gov/airtrends/index.html](http://www.epa.gov/airtrends/index.html)>, the national composite average of SO<sub>2</sub> annual mean ambient concentrations decreased 54 percent between 1990 and 2007, as shown in Figure 13 (based on state, local, and EPA monitoring sites located primarily in urban areas). The largest single-year reduction (20 percent) occurred in the first year of the ARP, between 1994 and 1995. These trends are consistent with the regional ambient air quality trends observed in the Clean Air Status and Trends (CASTNET) network.

Figure 13: National SO<sub>2</sub> Air Quality, 1990–2007



Note: Data represent 281 monitoring sites, generally located in urban areas or near SO<sub>2</sub> emission sources, used to evaluate national ambient trends.

Source: EPA, 2008

Table 5: Regional Changes in Air Quality and Deposition of Sulfur and Nitrogen Compounds, 1989–1991 versus 2005–2007, from Rural Monitoring Networks

Measurement	Region	Average 1989–1991	Average 2005–2007	Percent Change	Number of Sites
Ambient SO <sub>2</sub> Concentration (µg/m <sup>3</sup> )	Mid-Atlantic	13	7	<b>-46</b>	12
	Midwest	11	6	<b>-45</b>	11
	Northeast	5.6	2.4	-57	3
	Southeast	5.3	3.3	<b>-38</b>	9
Ambient Sulfate Concentration (µg/m <sup>3</sup> )	Mid-Atlantic	6.3	4.3	<b>-32</b>	12
	Midwest	6	3.9	<b>-35</b>	11
	Northeast	3.5	2.1	-40	3
	Southeast	5.4	4.2	<b>-22</b>	9
Wet Sulfate Deposition (kg-S/ha)	Mid-Atlantic	9.3	6.7	<b>-29</b>	11
	Midwest	7	4.7	<b>-33</b>	28
	Northeast	7.7	5	<b>-35</b>	17
	Southeast	6	4.3	<b>-28</b>	23
Dry Sulfur Deposition (kg-S/ha)	Mid-Atlantic	6.5	3.7	<b>-43</b>	10
	Midwest	6.5	3.5	<b>-46</b>	10
	Northeast	4.1	1.8	-56	2
	Southeast	1.2	0.9	-25	2
Total Sulfur Deposition (kg-S/ha)	Mid-Atlantic	16	10	<b>-38</b>	10
	Midwest	15	9	<b>-40</b>	10
	Northeast	11	6	-45	2
	Southeast	8	5.8	-28	2
Total Ambient Nitrate Concentration (Nitrate + Nitric Acid) (µg/m <sup>3</sup> )	Mid-Atlantic	3.3	2.3	<b>-30</b>	12
	Midwest	4.6	3.5	<b>-24</b>	11
	Northeast	1.8	1.1	-39	3
	Southeast	2.2	1.8	<b>-18</b>	9
Wet Inorganic Nitrogen Deposition (kg-N/ha)	Mid-Atlantic	6.2	5	<b>-19</b>	11
	Midwest	5.6	5.2	<b>-7</b>	28
	Northeast	5.6	4.4	<b>-21</b>	17
	Southeast	4.4	3.8	<b>-14</b>	23
Dry Inorganic Nitrogen Deposition (kg-N/ha)	Mid-Atlantic	2.6	1.9	<b>-27</b>	10
	Midwest	2.5	2	<b>-20</b>	10
	Northeast	1.8	1.1	-39	2
	Southeast	0.88	1.08	23	2
Total Inorganic Nitrogen Deposition (kg-N/ha)	Mid-Atlantic	8.8	6.7	<b>-24</b>	10
	Midwest	9	7.4	<b>-18</b>	10
	Northeast	6.5	5.3	-18	2
	Southeast	5.9	5.2	-12	2

Notes:

- Averages are the arithmetic mean of all sites in a region that were present in both averaging periods.
- Total deposition is estimated from raw measurement data, not rounded, and may not equal the sum of dry and wet deposition.
- Percent change in **bold** indicates that differences were statistically significant at the 95 percent confidence level. Changes that are not statistically significant may be unduly influenced by measurements at only a few locations or large variability in measurements.

Source: CASTNET and NADP/NTN, 2008

## ABOUT LONG-TERM MONITORING NETWORKS

To evaluate the impact of emission reductions on the environment, scientists and policymakers use data collected from long-term national monitoring networks such as CASTNET and the National Atmospheric Deposition Program/National Trends Network (NADP/NTN). These complementary, long-term monitoring networks provide information on a variety of indicators necessary for tracking temporal and spatial trends in regional air quality and acid deposition (see Table 6).

**Table 6: Air Quality and Acid Deposition Measures**

Chemical Name	Chemical Symbol	Measured in:		Why are these measured by the networks?
		Ambient Air	Wet Deposition	
Sulfur Dioxide	SO <sub>2</sub>	X		Primary precursor of wet and dry acid deposition; primary precursor to fine particles in many regions.
Sulfate Ion	SO <sub>4</sub> <sup>2-</sup>	X	X	Major contributor to wet acid deposition; major component of fine particles in the Midwest and East; can be transported over large distances; formed from reaction of SO <sub>2</sub> in the atmosphere.
Nitrate Ion	NO <sub>3</sub> <sup>-</sup>	X	X	Contributor to acid and nitrogen wet deposition; major component of fine particles in urban areas; formed from reaction of NO <sub>x</sub> in the atmosphere.
Nitric Acid	HNO <sub>3</sub>	X		Strong acid and major component of dry nitrogen deposition; formed as a secondary product from NO <sub>x</sub> in the atmosphere.
Ammonium Ion	NH <sub>4</sub> <sup>+</sup>	X	X	Contributor to wet and dry nitrogen deposition; major component of fine particles; provides neutralizing role for acidic compounds; formed from ammonia gas in the atmosphere.
Ionic Hydrogen	H <sup>+</sup>		X	Indicator of acidity in precipitation; formed from the reaction of sulfate and nitrate in water.
Calcium	Ca <sup>2+</sup>	X	X	These base cations neutralize acidic compounds in precipitation and the environment; also play a major role in plant nutrition and soil productivity.
Magnesium	Mg <sup>2+</sup>	X	X	
Potassium	K <sup>+</sup>	X	X	
Sodium	Na <sup>+</sup>	X	X	

CASTNET provides atmospheric data on the dry deposition component of total acid deposition, ground-level ozone, and other forms of atmospheric pollution. Established in 1987, CASTNET now consists of more than 80 sites across the United States. EPA's Office of Air and Radiation operates most of the monitoring stations; the National Park Service (NPS) funds and operates approximately 30 stations in cooperation with EPA. Many CASTNET sites have a continuous 20-year data record, reflecting EPA's commitment to long-term environmental monitoring. Information and data from CASTNET are available at <[www.epa.gov/castnet](http://www.epa.gov/castnet)>.

NADP/NTN is a nationwide, long-term network tracking the chemistry of precipitation. NADP/NTN provides concentration and wet deposition data on hydrogen ion (acidity as pH), sulfate, nitrate, ammonium, chloride, and base cations. The network is a cooperative effort involving many groups, including the State Agricultural Experiment Stations, U.S. Geological Survey (USGS), U.S. Department of Agriculture, EPA, NPS, the National Oceanic and Atmospheric Administration (NOAA), and other governmental and private entities. NADP/NTN has grown from 22 stations at the end of 1978 to more than 250 sites spanning the continental United States, Alaska, Puerto Rico, and the Virgin Islands. Information and data from NADP/NTN are available at <<http://nadp.sws.uiuc.edu>>.

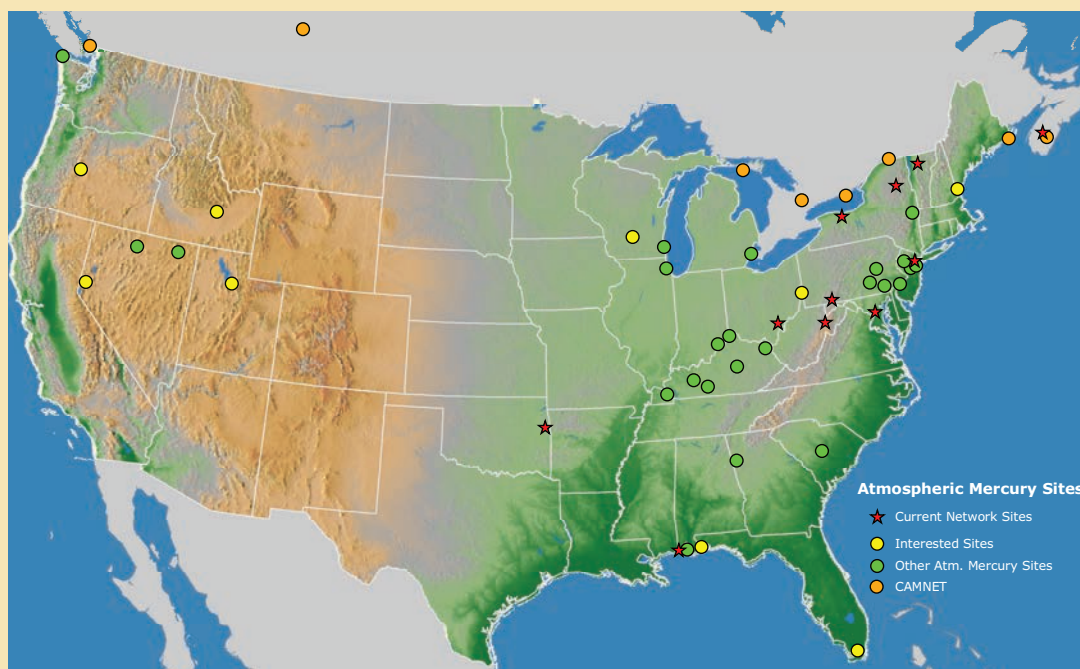
## AMBIENT ENVIRONMENTAL MONITORING FOR MERCURY

In 2003, an EPA-sponsored workshop convened by the Society for Environmental Toxicology and Chemistry gathered scientists from across the United States and several other countries to devise a national ambient mercury monitoring program. A roadmap for a comprehensive national mercury monitoring program emerged from this workshop.<sup>10</sup>

A May 2008 National Mercury Monitoring Workshop was an important step in building further broad community support for a comprehensive, integrated monitoring network. The workshop included participants from federal agencies (EPA, USGS, NOAA, U.S. Fish and Wildlife Service, NPS), state and tribal agencies, the NADP, industry, and academic and private research institutions. Workshop participants agreed on the overall goal of a network: “To establish an integrated, national network to systematically monitor, assess, and report on policy-relevant indicators of atmospheric mercury concentrations and deposition, and mercury levels in land, water, and biota in terrestrial, freshwater, and coastal ecosystems in response to changing mercury emissions over time.”

Workshop scientists considered the conceptual framework for a mercury monitoring network, called MercNet, to include national distribution of sites to understand the sources, consequences, and changes in U.S. mercury pollution. Collaboration and partnerships among existing mercury science and monitoring programs are integral to MercNet. A broad cross section of agencies and institutions are working to coordinate mercury monitoring activities. To monitor mercury in the atmosphere, the NADP membership of federal agencies, states, tribes, academic institutions, industry, and other organizations are collaborating to establish a new network for monitoring atmospheric mercury species. The network leverages existing atmospheric mercury sites, where possible. At present, 12 atmospheric mercury monitoring stations (including Alert, Nunavut, Canada, not shown) are participating in NADP to provide high-resolution, high-quality data (see Figure 14). For more information, visit the NADP mercury initiative Web page <<http://nadpweb.sws.uiuc.edu/amn/>>.

Figure 14: Atmospheric Mercury Monitoring



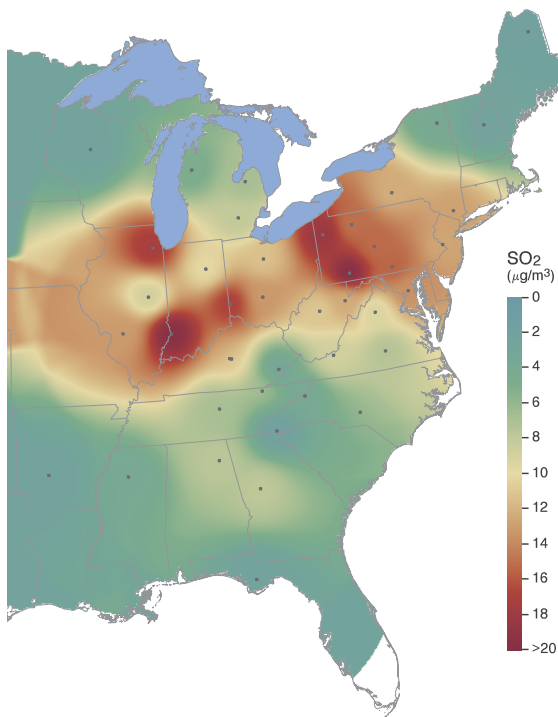
Source: NADP, 2008

During the late 1990s, following implementation of Phase I of the ARP, dramatic regional improvements in SO<sub>2</sub> and ambient sulfate concentrations were observed at CASTNET sites throughout the eastern United States, and these improvements continue today. Analyses of regional monitoring data from CASTNET show the geographic pattern of SO<sub>2</sub> and airborne sulfate in the eastern United States. Three-year mean annual concentrations of SO<sub>2</sub> and sulfate from CASTNET long-term monitoring sites are compared from 1989 to 1991 and 2005 to 2007 in both tabular form and

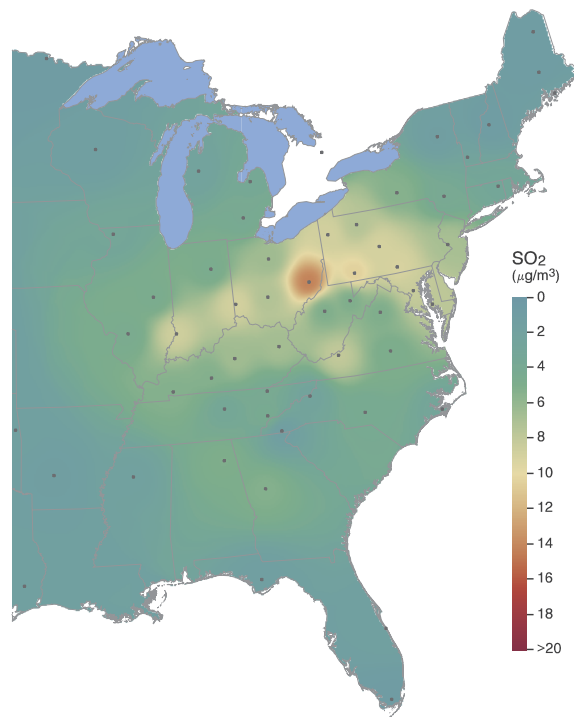
graphically in maps (see Table 5 on page 22 and Figures 15, 16, and 17 on pages 25 through 27).

The map in Figure 15a shows that from 1989 to 1991, prior to implementation of Phase I of the ARP, the highest annual ambient concentrations of SO<sub>2</sub> in the East were observed in western Pennsylvania and along the Ohio River Valley. Figure 15b indicates a significant decline in those concentrations in nearly all affected areas after implementation of the ARP and other programs.

**Figure 15a: Annual Mean Ambient SO<sub>2</sub> Concentration, 1989–1991**



**Figure 15b: Annual Mean Ambient SO<sub>2</sub> Concentration, 2005–2007**



**Notes:**

- For maps depicting these trends for the entire continental United States, visit <[www.epa.gov/castnet](http://www.epa.gov/castnet)>.
- Dots on all maps represent monitoring sites. Lack of shading for southern Florida indicates lack of monitoring coverage in the 1989-1991 period.

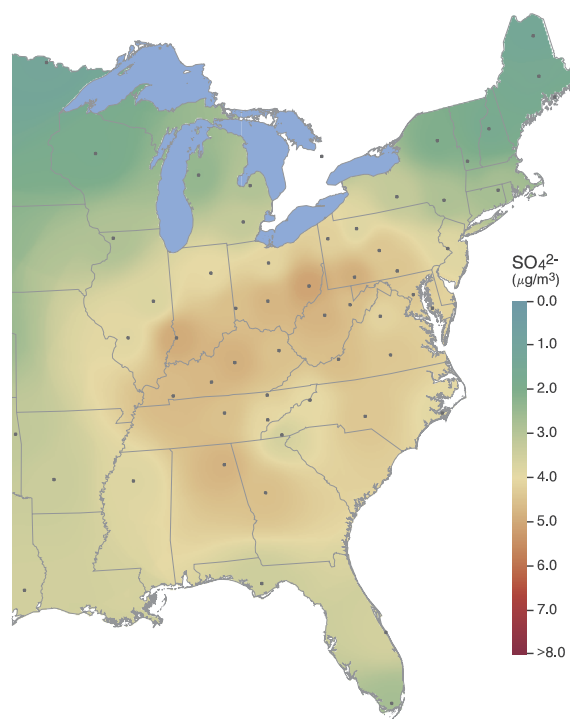
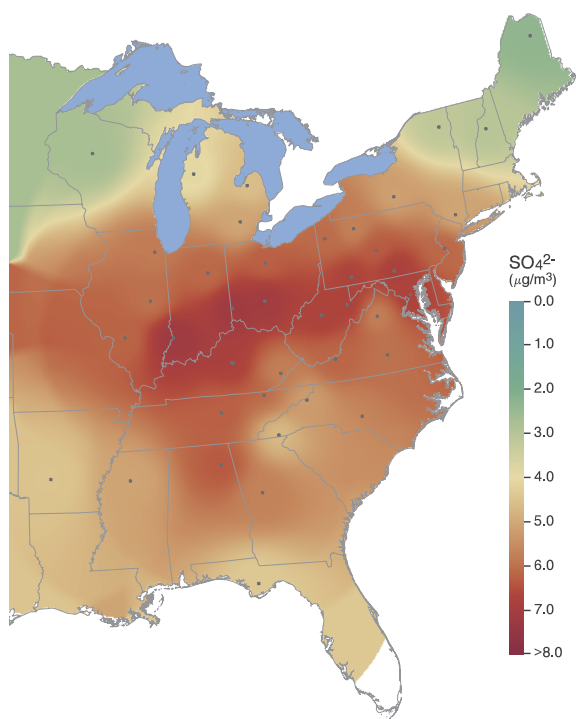
Source: CASTNET, 2008

Before the ARP, in 1989–1991, the highest annual ambient sulfate concentrations, greater than 11 micrograms per cubic meter ( $\mu\text{g}/\text{m}^3$ ), were also observed in western Pennsylvania, along the Ohio River Valley, and in northern Alabama. Most of the eastern United States experienced annual ambient sulfate concentrations greater than 5  $\mu\text{g}/\text{m}^3$ . Like  $\text{SO}_2$  concentrations, ambient sulfate concentrations have decreased since the

program was implemented, with average concentrations decreasing from 22 to 40 percent in regions of the East (see Table 5 on page 22). Both the magnitude and spatial extent of the highest concentrations have dramatically declined, with the largest decreases observed along the Ohio River Valley (see Figures 16a and 16b).

Figure 16a: Annual Mean Ambient Sulfate Concentration, 1989–1991

Figure 16b: Annual Mean Ambient Sulfate Concentration, 2005–2007



Notes:

- For maps depicting these trends for the entire continental United States, visit [www.epa.gov/castnet](http://www.epa.gov/castnet).
- Dots on all maps represent monitoring sites. Lack of shading for southern Florida indicates lack of monitoring coverage in the 1989-1991 period.

Source: CASTNET, 2008

## Nitrogen Oxides

Although the ARP has met its  $\text{NO}_x$  emission reduction targets, emissions from other sources (such as motor vehicles and agriculture) contribute to ambient nitrate concentrations in some areas.  $\text{NO}_x$  levels can also be affected by emissions transported via air currents over wide regions.

From 2005 to 2007, reductions in  $\text{NO}_x$  emissions during the ozone season from power plants under the  $\text{NO}_x$  SIP Call have continued to result in significant region-specific improvements

in ambient total nitrate ( $\text{NO}_3^-$  plus  $\text{HNO}_3$ ) concentrations. For instance, annual mean ambient total nitrate concentrations for 2005 to 2007 in the Mid-Atlantic region were 30 percent less than the annual mean concentration in 1989 to 1991 (see Table 5 on page 22 and Figures 17a and 17b). While these improvements might be partly attributed to added  $\text{NO}_x$  controls installed for compliance with the  $\text{NO}_x$  SIP Call, the findings at this time are not conclusive.

Figure 17a: Annual Mean Ambient Total Nitrate Concentration, 1989–1991

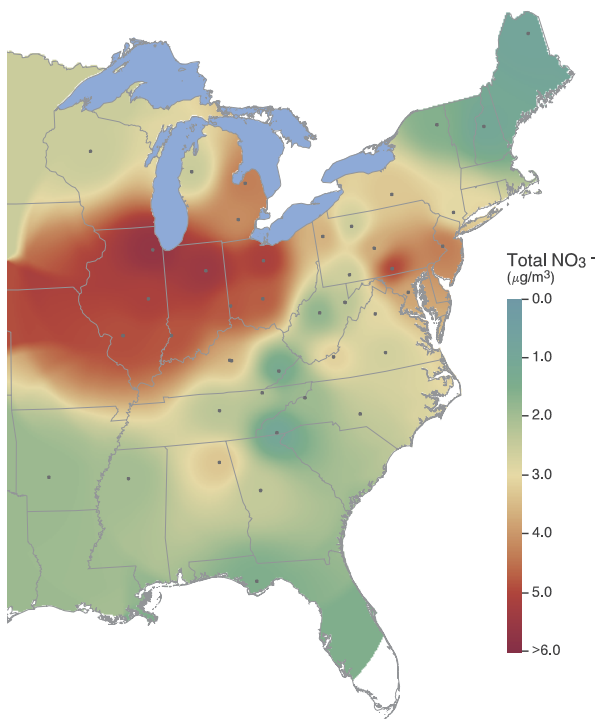
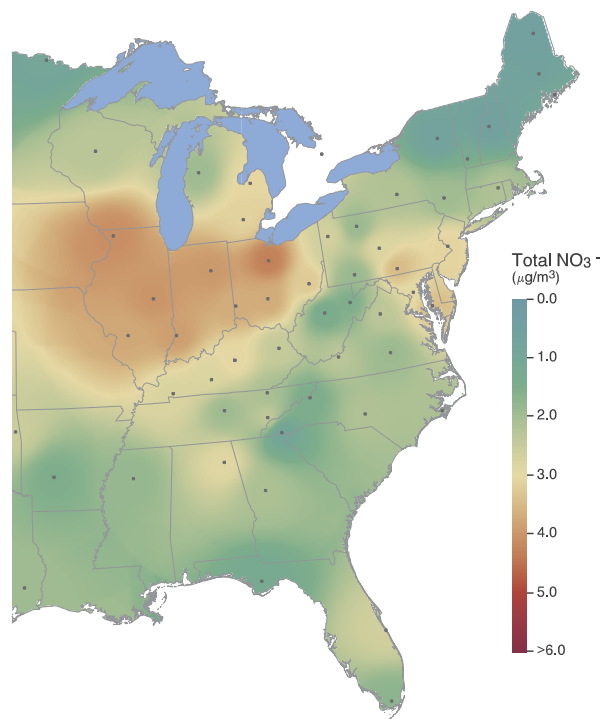


Figure 17b: Annual Mean Ambient Total Nitrate Concentration, 2005–2007



### Notes:

- For maps depicting these trends for the entire continental United States, visit <[www.epa.gov/castnet](http://www.epa.gov/castnet)>.
- Dots on all maps represent monitoring sites. Lack of shading for southern Florida indicates lack of monitoring coverage in the 1989-1991 period.

Source: CASTNET, 2008

## Acid Deposition

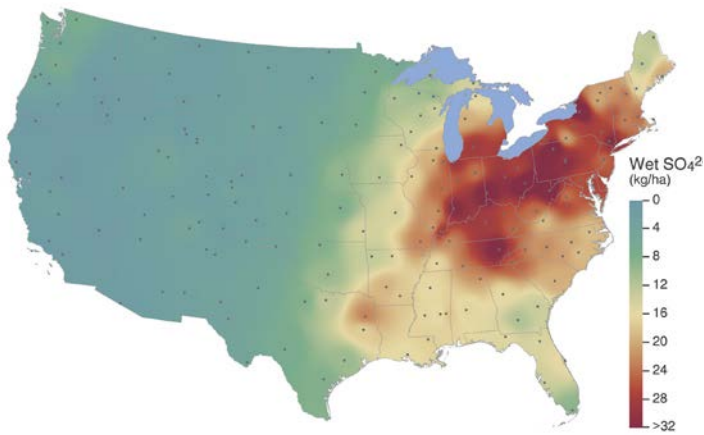
NADP/NTN monitoring data show significant improvements in the primary acid deposition indicators. For example, wet sulfate deposition (sulfate that falls to the earth through rain, snow, and fog) has decreased since the implementation of the ARP in much of the Ohio River Valley and northeastern United States. Some of the greatest reductions have occurred in the mid-Appalachian region, including Maryland, New York, West Virginia, Virginia, and most of Pennsylvania. Other less dramatic reductions have been observed across much of New England, portions of the southern Appalachian Mountains, and some areas of the Midwest. Between the 1989 to 1991 and 2005 to 2007 observation periods, average decreases in wet deposition of sulfate averaged around 30 percent for the eastern United States (see Table 5 on page 22 and Figures 18a and 18b). Along with wet sulfate deposition, wet sulfate concentrations have also decreased by similar percentages. A strong correlation between large-scale SO<sub>2</sub> emission reductions and large reductions in sulfate concentrations in precipitation has been noted in the Northeast, one of the areas most affected by acid deposition. The reduction in dry and total sulfur deposition (wet plus dry) has been even more dramatic than that of wet deposition in the Mid-Atlantic and Midwest, with reductions of about 40 percent (see Table 5 on page 22). Because continuous data records are available from only a few sites in the Northeast and Southeast, it is unclear if the observed reductions in total deposition are representative for those regions.

A principal reason for reduced sulfate deposition in the Northeast is a reduction in the long-range transport of sulfate from emission sources located in the Ohio River Valley. The reductions in sulfate documented in the Northeast, particularly across New England and portions of New York, were also affected by SO<sub>2</sub> emission reductions in eastern Canada. NADP data indicate that similar reductions in precipitation acidity, expressed as hydrogen ion (H<sup>+</sup>) concentrations, occurred concurrently with sulfate reductions, with reductions of 30 to 40 percent over much of the East.<sup>11</sup>

Reductions in nitrogen deposition recorded since the early 1990s have been less pronounced than those for sulfur. As noted earlier, emission trends from source categories other than ARP sources significantly affect air concentrations and deposition of nitrogen. Inorganic nitrogen in wet deposition decreased commensurately in the Mid-Atlantic and Northeast (see Figures 19a and 19b). Decreases in dry and total inorganic nitrogen deposition at CASTNET sites have generally been more striking than that of wet deposition, with about a 20 percent decrease in total nitrogen deposition for the Mid-Atlantic and Midwest (see Table 5 on page 22). Other source sectors and pollutants, particularly agriculture and ammonium respectively, affect nitrogen transport and deposition.



Figure 18a: Annual Mean Wet Sulfate Deposition, 1989–1991



Source: NADP, 2008

Figure 18b: Annual Mean Wet Sulfate Deposition, 2005–2007

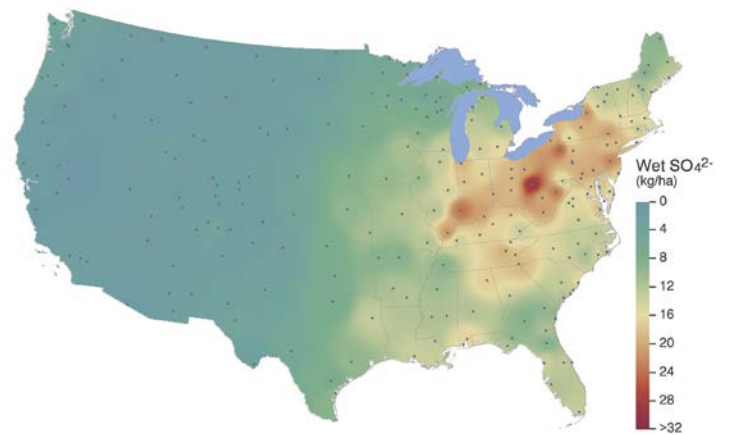
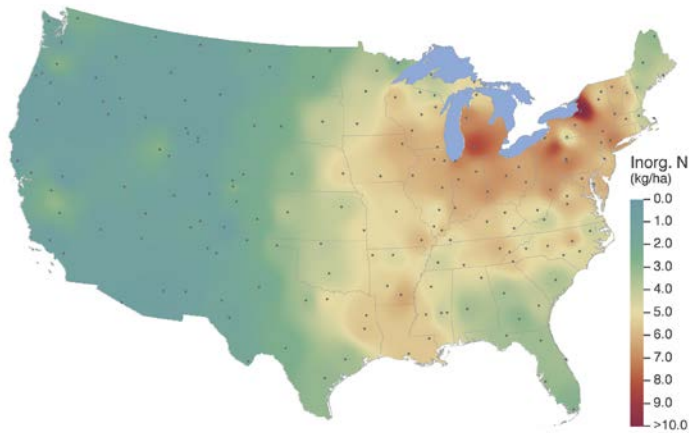
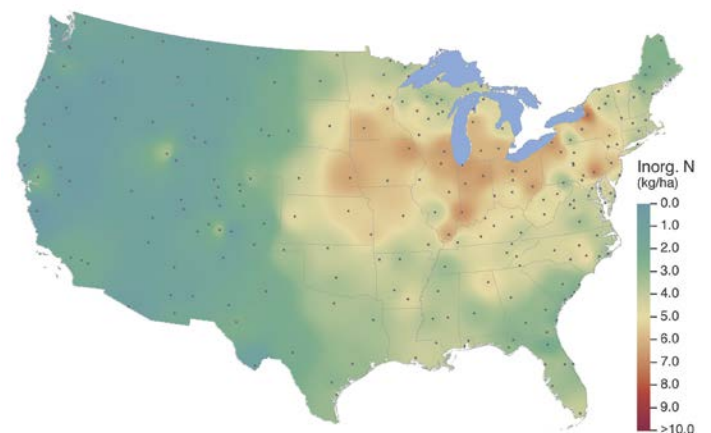


Figure 19a: Annual Mean Wet Inorganic Nitrogen Deposition, 1989–1991



Source: NADP, 2008

Figure 19b: Annual Mean Wet Inorganic Nitrogen Deposition, 2005–2007



Acid rain, resulting from  $\text{SO}_2$  and  $\text{NO}_x$  emissions, is one of many large-scale anthropogenic effects that negatively affect the health of lakes and streams in the United States. Surface water chemistry provides direct indicators of the potential effects of acidic deposition and the overall health of aquatic ecosystems. Long-term surface water monitoring networks provide information on the chemistry of lakes and streams and on how water bodies are responding to changes in emissions. Since the implementation of the ARP, scientists have measured changes in some lakes and streams in the eastern United States and found signs of recovery in many, but not all, of those areas (see Figures 20a, 20b, and 20c).

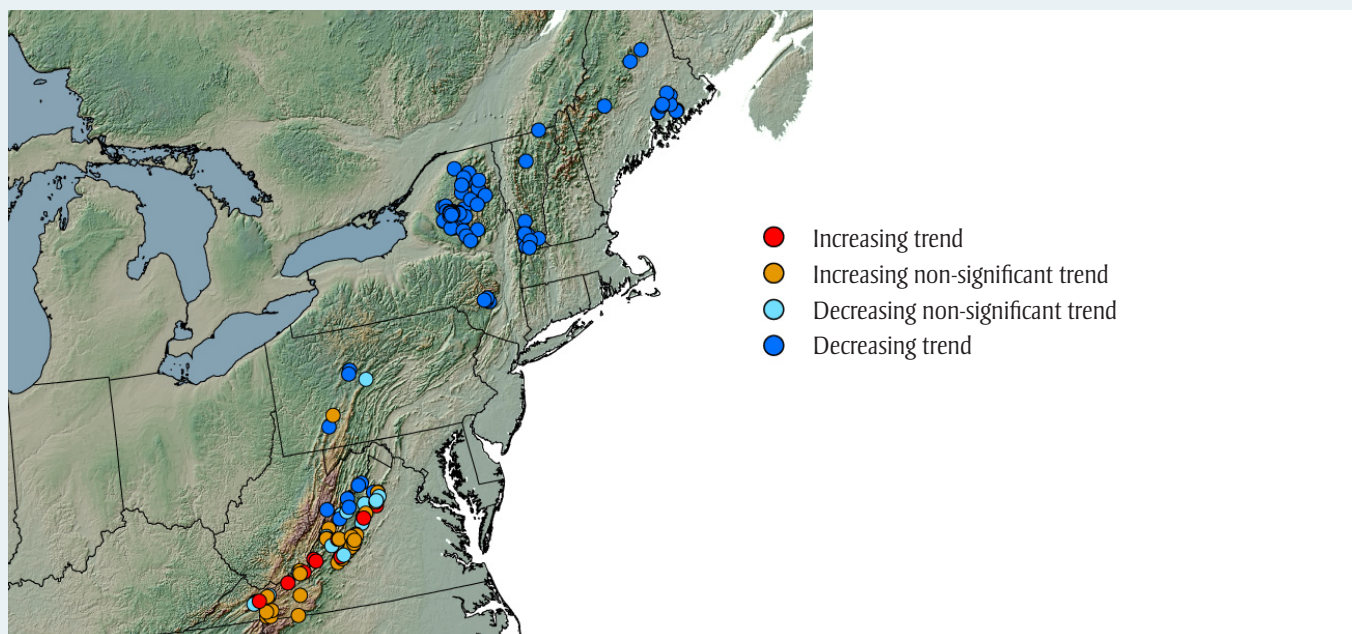
Two EPA-administered monitoring programs provide information on the effects of acid rain on aquatic systems: the Temporally Integrated Monitoring of Ecosystems (TIME) program and the Long-Term Monitoring (LTM) program. These programs were designed to track the effect of the 1990 CAA Amendments in reducing the acidity of surface waters in four regions: New England, the Adirondack Mountains, the Northern Appalachian Plateau, and the Ridge and Blue

Ridge provinces. The surface water chemistry trend data in the four regions monitored by the TIME and LTM programs are essential for tracking the ecological response to ARP emissions reductions.

The data presented here show regional trends in acidification from 1990 to 2006 in lakes and streams sampled through the LTM program (see Figures 20a through 20c). Only sites that have a complete data record for the time period are represented. Three indicators of acidity in surface waters are presented—measured ions of sulfate and nitrate and acid neutralizing capacity (ANC). These indicators provide information regarding both sensitivity to surface water acidification and the level of acidification that has occurred today and in the past. Trends in these sensitive chemical receptors allow for the determination of whether the conditions of the water bodies are improving and heading towards recovery or if the conditions are degrading.

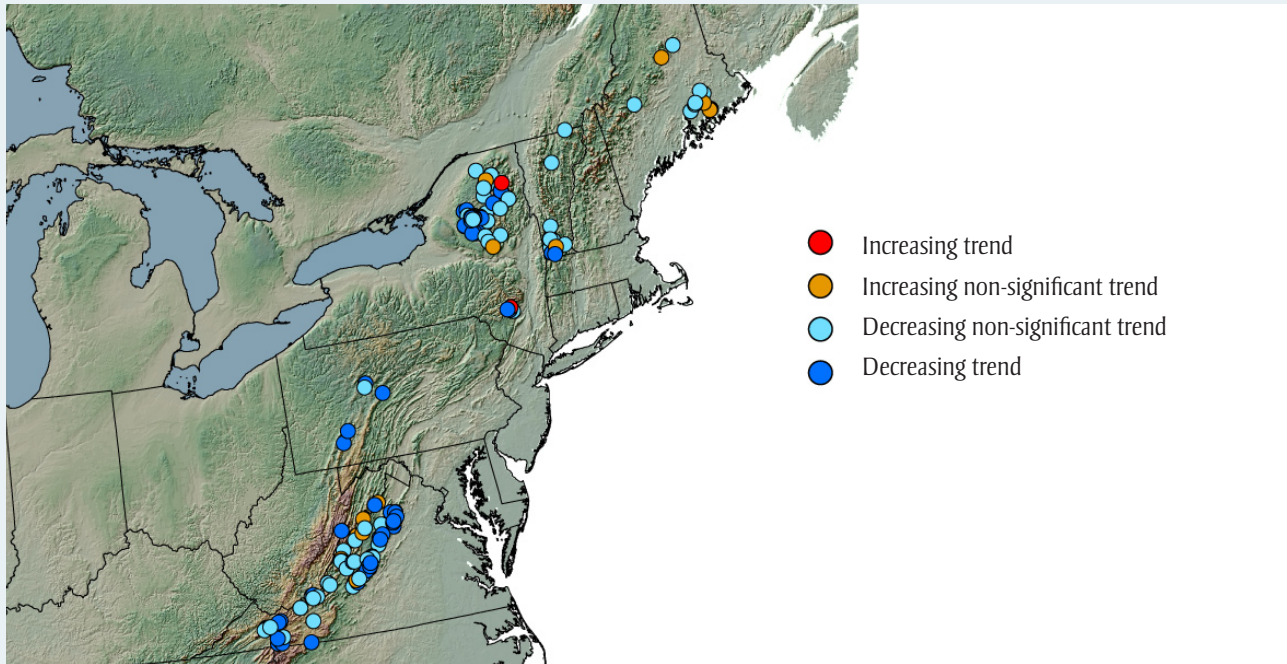
Measurements of sulfate ion concentrations in surface waters provide important information on the extent of cation leaching in soils and how sulfate concentrations relate to deposition and to the levels of ambient atmospheric sulfur.

Figure 20a: Trends in Lake and Stream Water Chemistry at LTM Sites, 1990-2006, Sulfate Ion Concentration ( $\mu\text{eq/L/yr}$ )



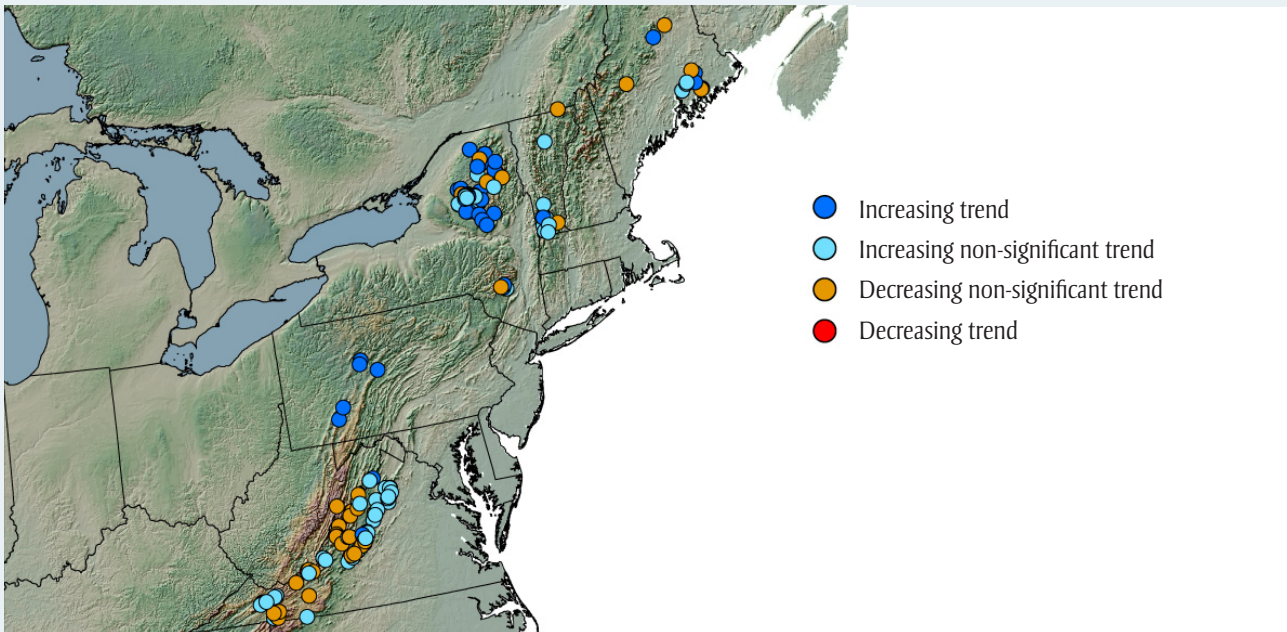
Source: EPA, 2008

Figure 20b: Trends in Lake and Stream Water Chemistry at LTM Sites, 1990–2006, Nitrate Ion Concentration ( $\mu\text{eq/L/yr}$ )



Source: EPA, 2008

Figure 20c: Trends in Lake and Stream Water Chemistry at LTM Sites, 1990–2006, ANC Concentration ( $\mu\text{eq/L/yr}$ )



Source: EPA, 2008

Assessments of acidic deposition effects dating from the 1980s to the present have shown sulfate to be the primary negatively charged ion in most acid-sensitive waters.<sup>12</sup> Nitrate has the same potential as sulfate to acidify drainage waters and leach acidic aluminum cations from watershed soils. In most watersheds, however, nitrogen is a limiting factor for plant growth, and therefore most nitrogen inputs through deposition are quickly incorporated into biomass as organic nitrogen with little leaching of nitrate into surface waters.

ANC is an important measure of the sensitivity and the degree of surface water acidification or recovery that occurs over time. Acidification results in the diminishing ability of water in the lake or stream to neutralize strong acids that enter aquatic ecosystems. Water bodies with ANC values defined as less than or equal to 0 microequivalents per liter ( $\mu\text{eq/L}$ ) are acidic. Lakes and streams having springtime ANC values less than 50  $\mu\text{eq/L}$  are generally considered “sensitive” to acidification. Lakes and streams with ANC higher than 50  $\mu\text{eq/L}$  are generally considered less sensitive or insensitive to acidification. When ANC is low, and especially when it is negative, stream water pH is also low (less than about 5 to 6), and there may be adverse impacts on fish and other animals essential for a healthy aquatic ecosystem. Movement toward recovery of an aquatic ecosystem is indicated by positive trends in ANC and negative trends in sulfate and nitrate.

Table 7 presents the aggregate sulfate, nitrate, and ANC trends ( $\mu\text{eq/L/yr}$ ) represented by the LTM sites shown in Figure 20 for four acid sensitive regions of the eastern U.S. The maps and summary results indicate that:

- **Sulfate** concentrations are declining at almost all sites in the Northeast (New England, Adirondacks/Catskills and Pennsylvania [Northern Appalachians]). However, in the Blue Ridge (Southern Appalachians), sulfate concentrations in streams are increasing. This region has soils and other geologic attributes that can store large amounts of sulfate deposited and contribute little buffering capacity to neutralize acidity. When sulfate has exceeded the soil’s ability to store and neutralize sulfate, the excess is exported to surface waters, mainly streams.
- **Nitrate** concentrations are decreasing overall in all of the regions, but several lakes and streams indicate flat or slightly

Table 7: Trend Slopes for LTM Sites in Four Eastern U.S. Regions, 1990–2006

Region	Sulfate SLOPE	Nitrate SLOPE	ANC SLOPE
New England	-2.3	-0.02	0.185
Adirondacks	-2.23	-0.31	0.82
Appalachian Plateau	-2.36	-0.18	0.80
Ridge/Blue Ridge	0.10	-0.125	0.03

Notes:

- Blue values indicate significance at 95% confidence interval ( $p < 0.05$ ). Confidence levels are used to express the reliability and significance of the estimate.
- The slope or trend in a simple linear regression (SLR) model corresponds to the change in the chemical variable over time. A negative or positive slope indicates whether the chemical variable in the regional distribution of water bodies is decreasing or increasing.
- The table of values represents the trend of all the sites in that particular Region. The individual site trends were calculated for each site and color coded according to whether the slope is positive or negative and whether the trends are significant or not significant.

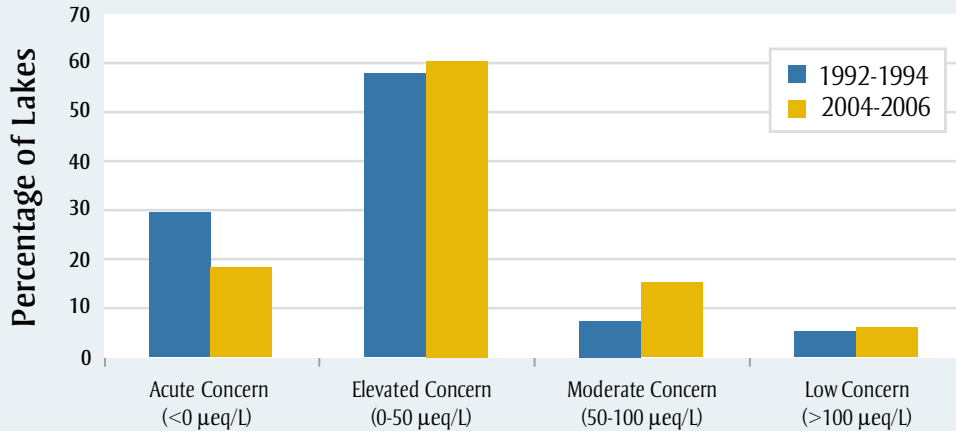
Source: EPA, 2008

increasing nitrate trends. This trend does not appear to reflect changes in emissions or deposition in these areas and is likely a result of ecosystem factors.

- **ANC**, as measured in surface waters, is increasing in three of the four regions, which in part can be attributed to declining sulfate deposition. The site trends also indicate variation within each region. No sites indicate a significant downward trend in ANC.

The ANC of lakes monitored under the TIME and LTM programs was also evaluated for 1992 to 1994 and 2004 to 2006 to assess the impacts of ARP implementation. The analysis compares average ANC levels for the northeastern lakes that had data in each time period. Thirty percent of lakes in 1992 to 1994 had three-year mean ANC levels below 0  $\mu\text{eq/L}$ . These lakes are categorized as “acute concern,” in which a complete loss of fish populations is expected, and planktonic communities have low diversity and are dominated by acidophilic forms. The percentage of lakes in this category dropped to 18 percent in 2004 to 2006 (see Figure 21). As a result, the three other categories (elevated, moderate, or low concern) experienced slight increases. These results point to a decrease in acidity, particularly for the subset of lakes with low ANC. The lakes from the TIME/LTM networks are representative of a broad range of ANC levels.

Figure 21: Northeastern Lakes by ANC Status Category, 1992–1994 versus 2004–2006



Note: Based on 152 TIME/LTM monitored sites.

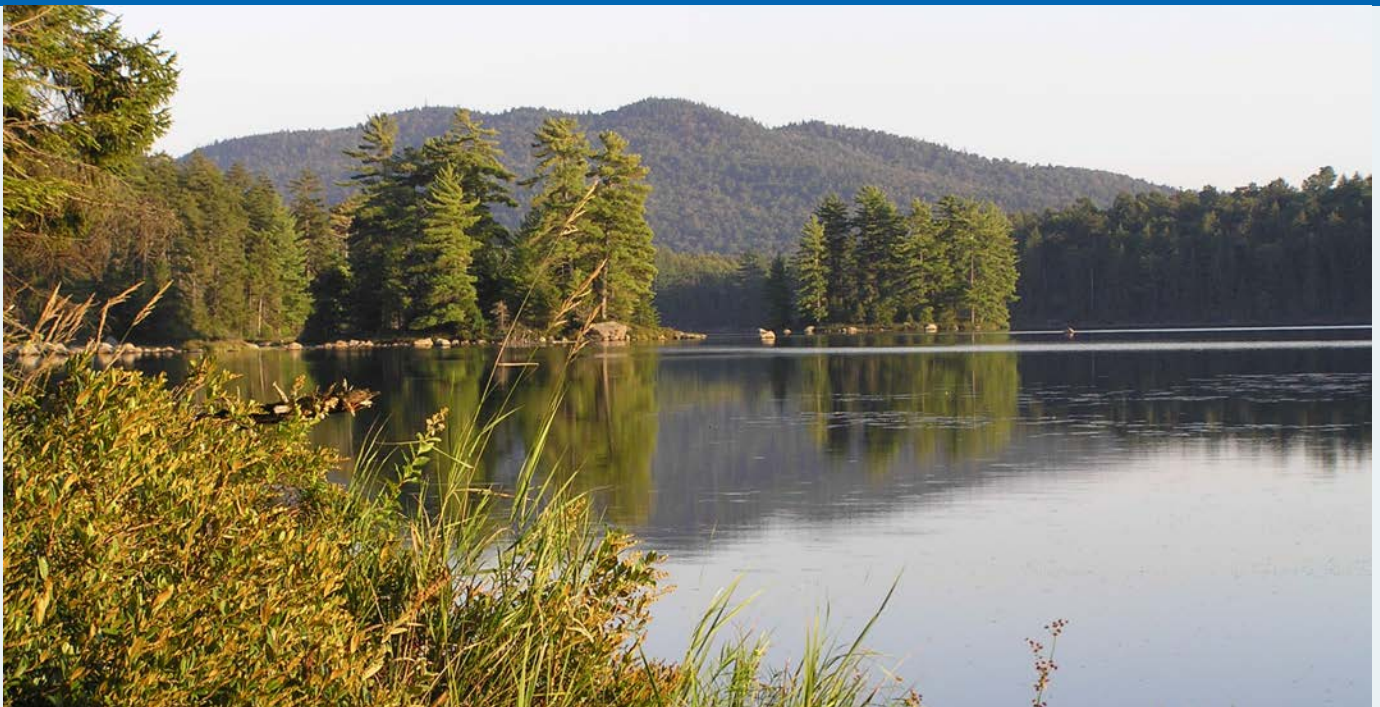
Source: EPA, 2008

Table 8: Aquatic Ecosystem Status Categories for the Adirondacks

Category Label	ANC Levels*	Expected Ecological Effects
Acute Concern	< 0 micro equivalent per Liter (µeq/L)	Complete loss of fish populations is expected. Planktonic communities have extremely low diversity and are dominated by acidophilic forms. The numbers of individuals in plankton species that are present are greatly reduced.
Elevated Concern	0–50 µeq/L	Fish species richness is greatly reduced (more than half of expected species are missing). On average, brook trout populations experience sub-lethal effects, including loss of health and reproduction (fitness). During episodes of high acid deposition, brook trout populations may experience lethal effects. Diversity and distribution of zooplankton communities declines.
Moderate Concern	50–100 µeq/L	Fish species richness begins to decline (sensitive species are lost from lakes). Brook trout populations are sensitive and variable, with possible sub-lethal effects. Diversity and distribution of zooplankton communities begin to decline as species that are sensitive to acid deposition are affected.
Low Concern	> 100 µeq/L	Fish species richness may be unaffected. Reproducing brook trout populations are expected where habitat is suitable. Zooplankton communities are unaffected and exhibit expected diversity and distribution.

\* It is important to note that the wide range of ANC values within these categories makes it likely that substantial improvements in ANC may occur without changing the categorization of a given lake.

Source: EPA, 2007



The Adirondack Mountain region of New York long has been a focal point for environmental concern over acid deposition. Soils and lakes usually buffer the acidity from natural rain, but poor buffering capability of the soils in the Adirondack region makes the streams, lakes, and ponds particularly susceptible to acidification. Consequently, acid deposition has affected hundreds of lakes and thousands of miles of headwater streams in the region, greatly reducing the diversity of aquatic life.

***Since the mid-1990s, lakes in the Adirondack region have shown signs of recovery from acid rain. Because of the SO<sub>2</sub> and NO<sub>x</sub> emission reductions from the ARP and other programs, sulfur and nitrogen deposition to the region have decreased by approximately 26 percent and 13 percent, respectively. This has led to improvement in ANC, a measure of the ability of water bodies to neutralize or buffer acid deposition and a sign of ecosystem recovery.***

In this case study, critical loads were calculated for 177 lakes in the Adirondack region (Figure 22). The critical load for a lake or stream provides a means to gauge the extent to which a water body has recovered from past acid deposition, or is potentially at risk due to current deposition levels. The critical load approach provides a quantitative estimate of the exposure to one or more pollutants below which significant harmful effects on specific sensitive elements of the environment do not occur according to present knowledge.

There are numerous methods and models that can be used to calculate critical loads for acidity. Drawing on the peer-reviewed scientific literature (e.g., Dupont, et al.) this case study uses the Steady-State Water Chemistry (SSWC) model to calculate the critical load.<sup>13</sup> The analysis uses water chemistry data from the TIME and LTM programs that are part of the Environmental Monitoring and Assessment Program (see discussion of surface water trends on pages 30–33). The focus is on the combined load of sulfur and nitrogen deposition below which the ANC level would still support healthy aquatic ecosystems. Research studies have shown that surface water with ANC values greater than 50 µeq/L tends to protect most fish (e.g., brook trout, others) and other aquatic organisms. So, in this case, the critical load represents the combined deposition load of sulfur and nitrogen to which

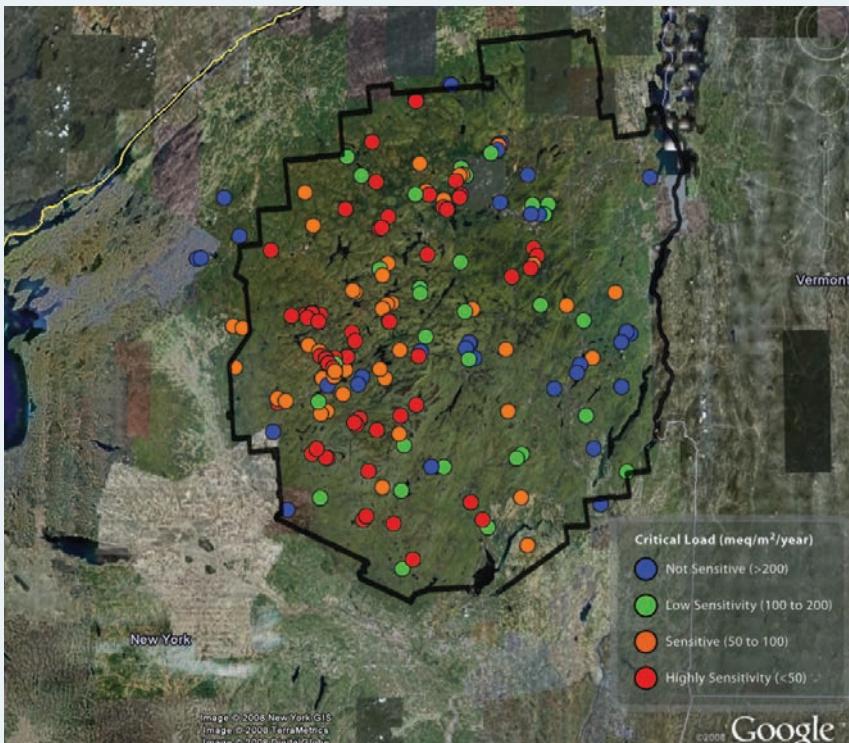
a lake or stream could be subjected and still have an ANC of 50  $\mu\text{eq/L}$ . Critical loads of combined total sulfur and nitrogen are expressed in terms of ionic charge balance as milliequivalent per square meter per year ( $\text{meq/m}^2/\text{yr}$ ).

When the critical load is “exceeded,” it means that the amount of combined sulfur and nitrogen atmospheric deposition is greater than the critical load for a particular lake, preventing the lake from reaching or maintaining an ANC concentration of 50  $\mu\text{eq/L}$  (Figure 22). On average, the critical load for lakes in the Adirondack region is 164  $\text{meq/m}^2/\text{yr}$ , while it is 48  $\text{meq/m}^2/\text{yr}$  for the lakes most susceptible to acidification (i.e., those lakes with ANC less than 100  $\mu\text{eq/L}$ ).

Environmental monitoring data reported below (and in earlier sections of this report) demonstrate decreasing trends in pollution loading and accompanying changes in environmental response indicators. ARP emission reductions have resulted in substantial decreases in atmospheric deposition of sulfur and nitrogen. As Figure 23 shows, decreases in sulfur and nitrogen deposition are evident in the Adirondack Mountain region as well.

Figure 24 shows trends in sulfate, nitrate, and ANC for Adirondack Mountain lakes monitored through the Adirondack LTM program. As a result of decreases in pollution regional deposition (Figure 23), sulfate concentrations in these lakes have dropped, which is an important sign of ecological recovery. While inter-annual variability in ANC and nitrate concentrations is evident in the Adirondack Mountain LTM lakes, the overall trend in these lakes of a slight increase in ANC and modestly decreasing nitrate concentrations are consistent with the overall ANC and nitrate trends for Adirondack Mountain lakes shown in Table 7 on page 32.

Figure 22: Critical Loads of Sulfur and Nitrogen Deposition for 177 Lakes in the Adirondack Region



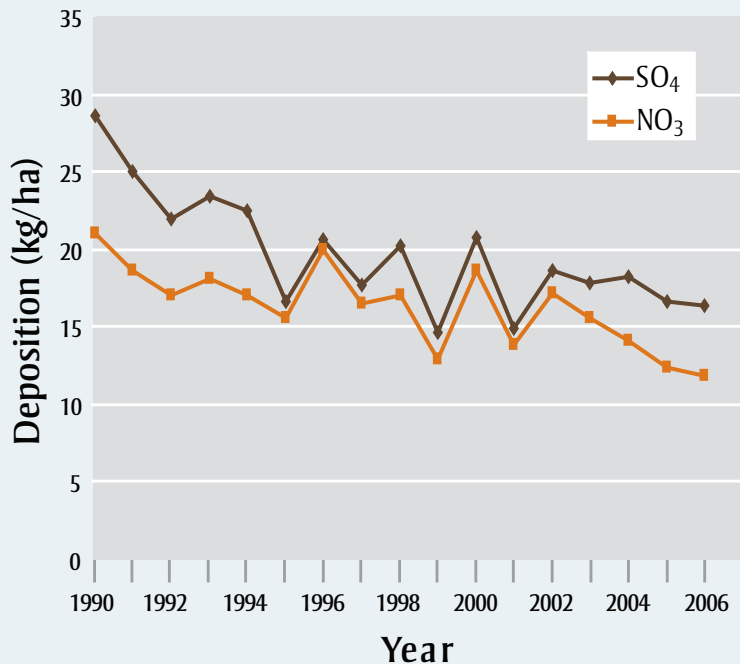
Note: Data available at <[www.epa.gov/airmarkets/progress/tools.html](http://www.epa.gov/airmarkets/progress/tools.html)>

Source: EPA, 2008

However, it is difficult to determine whether Adirondack Mountain region aquatic ecosystems are sufficiently protected without some context for understanding trends evident in the environmental monitoring data. The critical load provides a context-setting benchmark. In Figures 25a and 25b, a critical load exceedance indicates combined sulfur and nitrogen deposition were greater than a lake or stream could sustain and still maintain the ANC level of 50  $\mu\text{eq/L}$  or above. Exceedances were calculated from deposition for the period before implementation of the ARP (1989–1991) and for a recent period after ARP implementation (2005–2007).

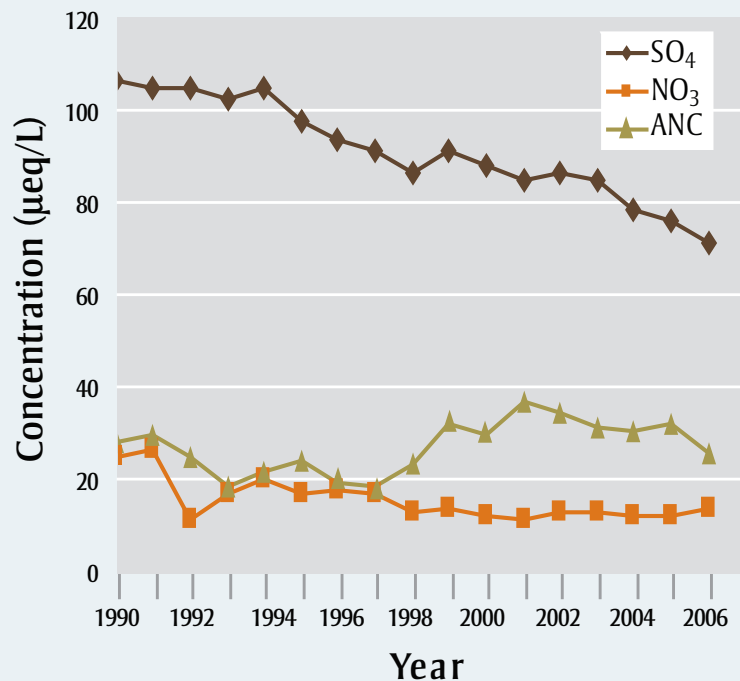
For the period from 2005 to 2007, 36 percent of the lakes within the TIME and LTM programs continued to receive levels of combined sulfur and nitrogen deposition that exceeded the critical load. For the period before ARP implementation, 52 percent of lakes received greater acid deposition than could be

Figure 23: Annual Average Wet Sulfate and Nitrate Deposition in the Adirondack Region, 1990–2006



Source: NADP, 2008

Figure 24: Annual Average Surface Water Sulfate and Nitrate Concentration in the Adirondack Region, 1990–2006, Compared with ANC



Source: LTM, 2008

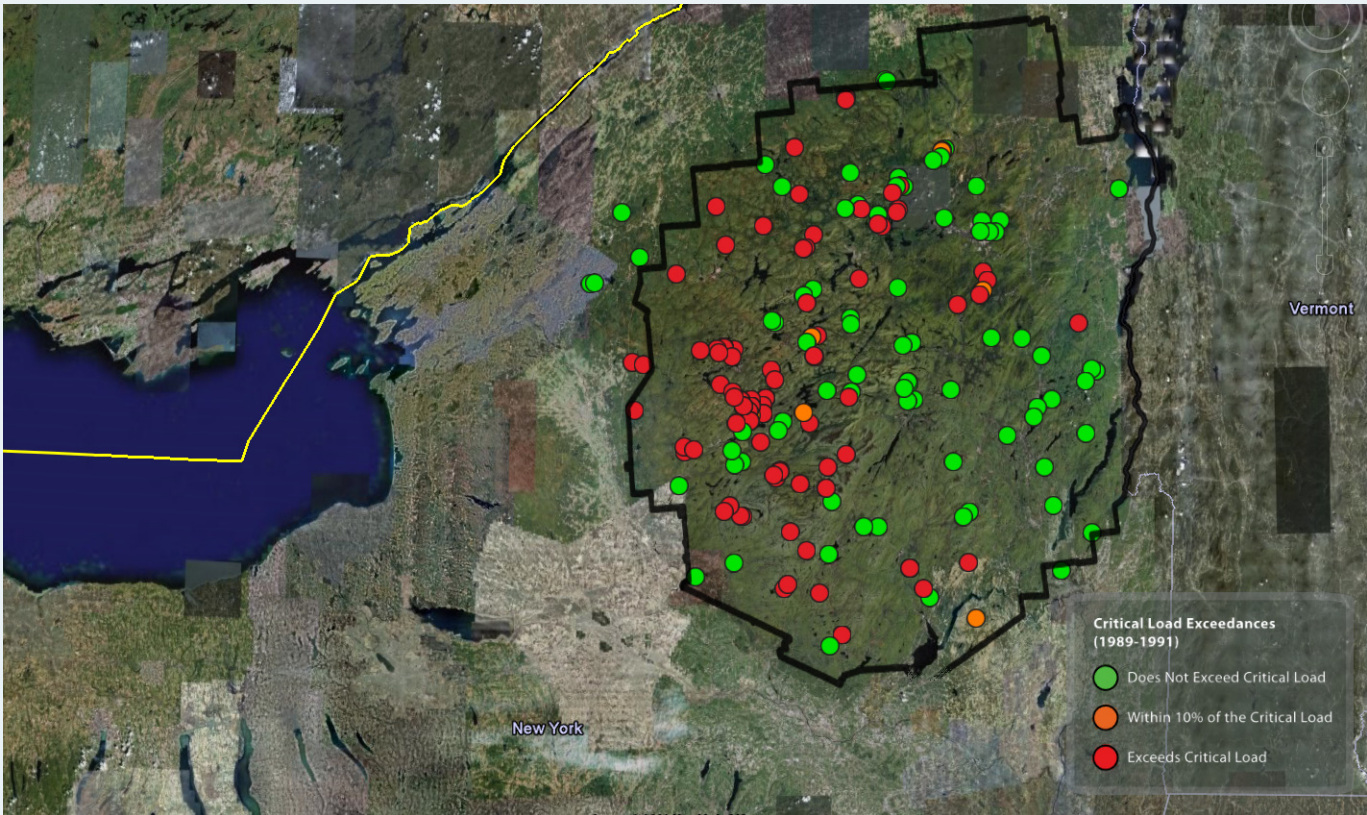
neutralized. By the 2005–2007 period, 16 percent fewer Adirondack Mountain region lakes within the TIME and LTM programs were receiving sulfur and nitrogen deposition loads that threaten the health of these ecosystems.

Figures 25a and 25b also show lakes where deposition was within 10 percent of the critical load. These lakes illustrate areas where ecosystem health has improved over time, even though the deposition still is greater than the critical load.

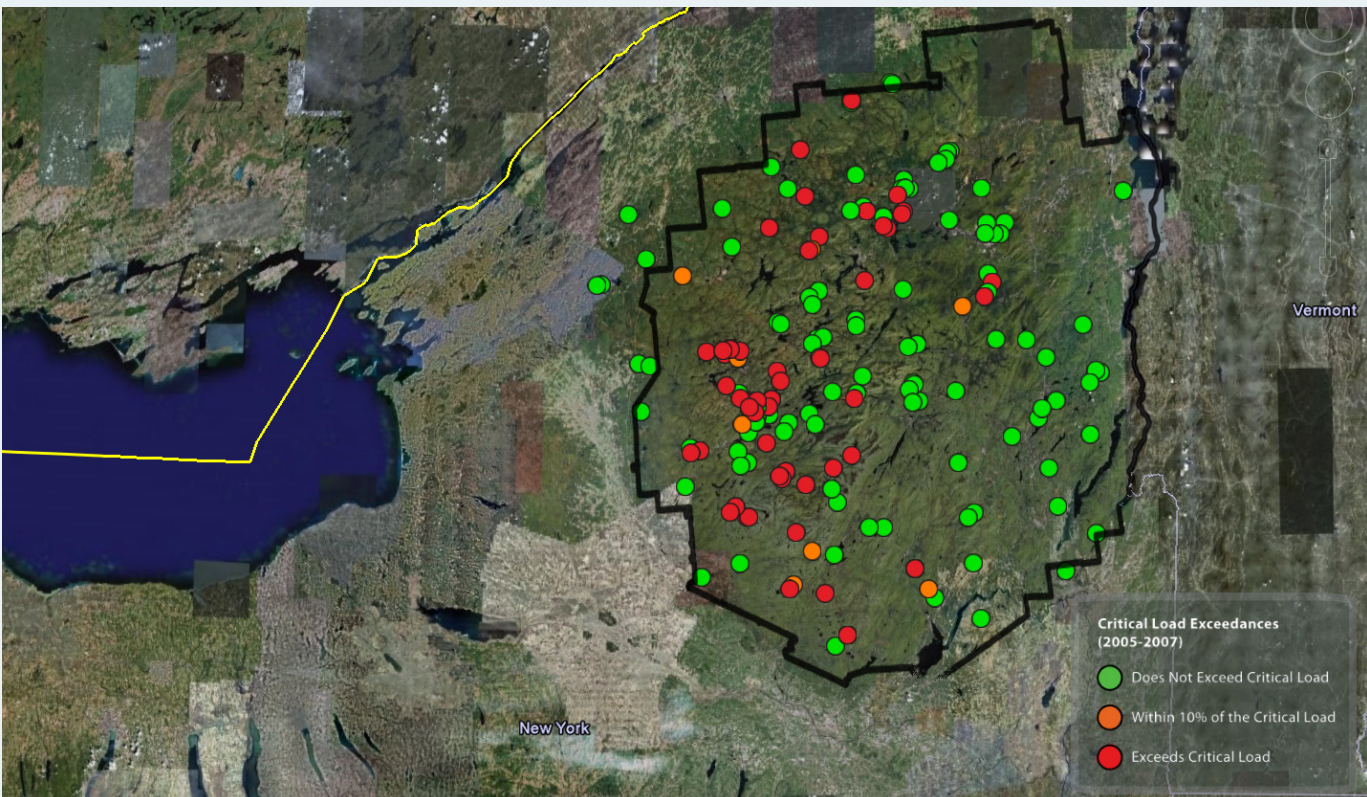
Thus, this critical load analysis shows that emission reductions achieved by the ARP have resulted in improved environmental conditions and increased ecosystem protection in the Adirondack Mountain region. However, the analysis also shows that despite the ecological recovery that has occurred over the past decades in the Adirondack region, deeper reductions in acid deposition are necessary for greater recovery of these sensitive aquatic systems, leading to full ecosystem protection.



Figures 25a and 25b: Comparison of Critical Load Exceedances in Adirondack Lakes before and after Implementation of the Acid Rain Program



Source: EPA, 2008



Source: EPA, 2008

**S**O<sub>2</sub> and NO<sub>x</sub> emissions can react in the atmosphere to form fine particles, which are harmful to humans and sensitive ecosystems. Sulfate particles are formed after gaseous SO<sub>2</sub> is emitted and oxidized. Sulfate particles can then be deposited on the surface (dry deposition), or the particles can react in clouds or fog to form sulfuric acid (H<sub>2</sub>SO<sub>4</sub>), commonly known as acid rain. CASTNET data, combined with SO<sub>2</sub> emission data from CEMS at ARP-affected sources, provide a more complete picture of how emission reductions under the ARP are translating into improvements in air quality and reductions in acid deposition as SO<sub>2</sub> emissions decrease over time.

Since SO<sub>2</sub> is a precursor to the formation of sulfate, reductions in SO<sub>2</sub> emissions under the ARP were expected to translate into similar reductions in atmospheric sulfate concentrations. Although there is an observed downward trend in ambient sulfate concentration since the implementation of the ARP, these reductions have not been as dramatic as those observed for SO<sub>2</sub> emissions and ambient SO<sub>2</sub> concentrations (see Figures 26 through 28, reproduced from last year's report).

Regional decreases in annual particulate sulfate concentrations compared with the larger regional decreases in SO<sub>2</sub> emissions and the proportional decreases in ambient SO<sub>2</sub> concentrations may be understood by examining seasonal changes in the potential for sulfate formation. In fact, due to complex atmospheric chemistry interactions, decreases of other pollutants, namely ozone, have contributed to seasonal variations in sulfate, although the overall trend in sulfate is downward.

SO<sub>2</sub> emissions can undergo further oxidation via several pathways to form sulfates. Generally, this process takes several days. Chemical reactions involved in the oxidation of sulfur in the atmosphere are sensitive to environmental factors, such as temperature, amount/intensity of sunlight (solar radiation), water vapor, and quantity of reactive oxidants (such as ozone). Since these factors vary seasonally, the chemical reactions involving sulfur are also seasonally dependent.



Figure 26: Trends in Regional Annual SO<sub>2</sub> Emissions (Coal-fired Acid Rain Program Units)

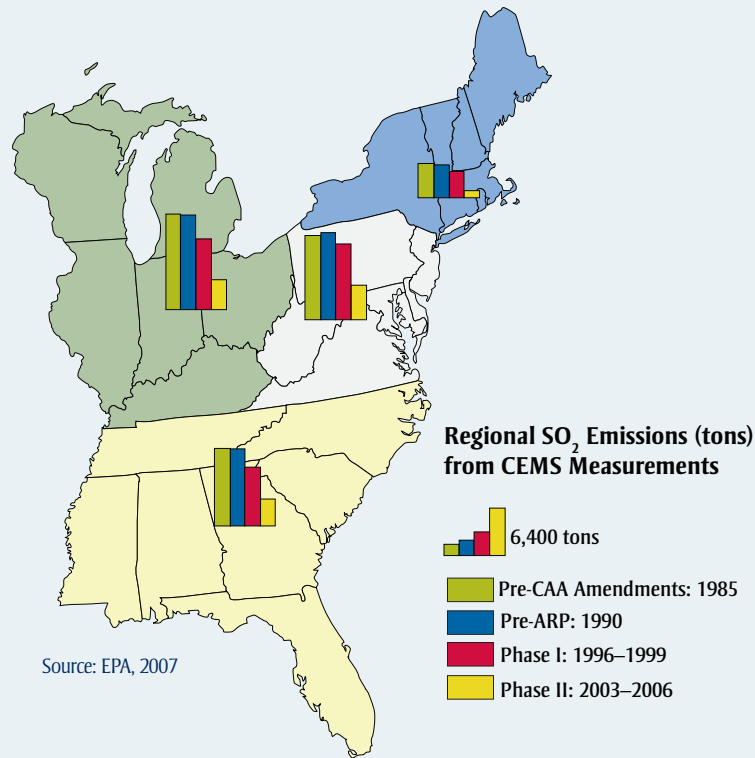


Figure 27: Trends in Regional Ambient SO<sub>2</sub> Concentrations (CASTNET Sites)

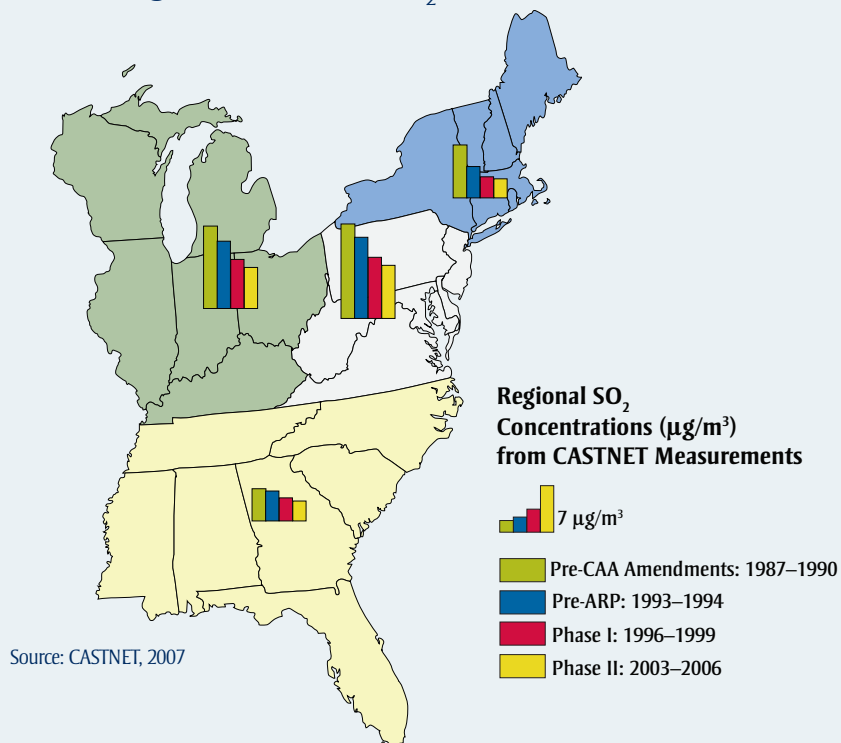


Figure 29 shows the smoothed average concentration trend in weekly concentrations of SO<sub>2</sub> and sulfate measured at CASTNET sites from 2005 through 2007. The concentrations of sulfate and SO<sub>2</sub> exhibit opposite seasonal patterns.

The different seasonal patterns are due to changes in the oxidative potential of the atmosphere. During the summer months of May through September, concentrations of ground-level ozone increase and create conditions that allow more SO<sub>2</sub> to be oxidized and form sulfate. During the winter months of October through April, the potential for sulfate formation is significantly lowered because less solar radiation and cooler temperatures lead to reduced ground level ozone levels. As a result, sulfur tends to remain in the gaseous form (SO<sub>2</sub>).<sup>14</sup>

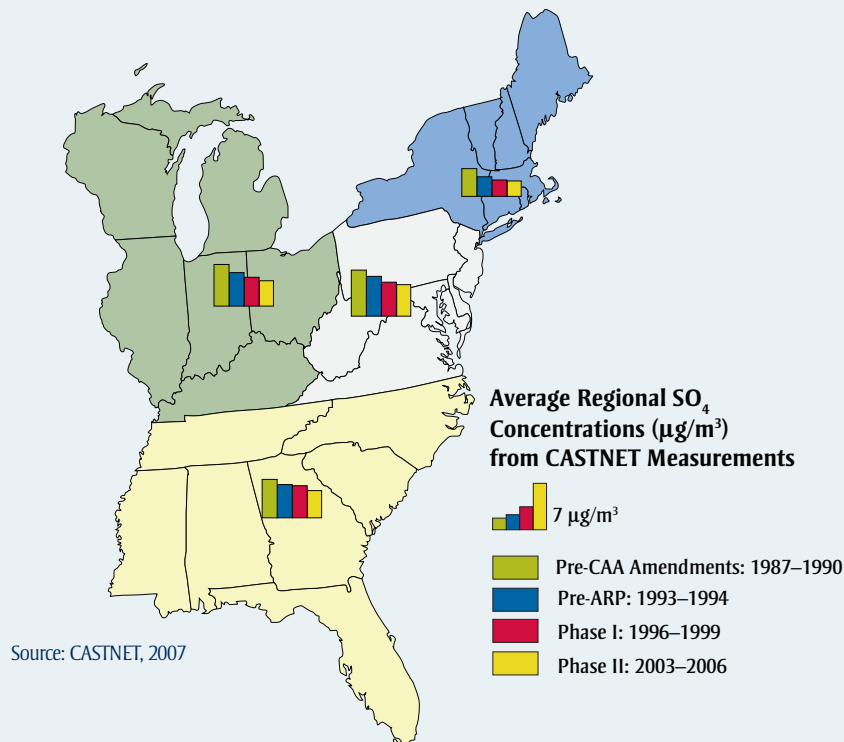
The trends over time in the median\* sulfate and SO<sub>2</sub> concentrations during the summer and winter seasons are shown in Figures 30 and 31. In the summer, the dramatic

decline seen in gaseous SO<sub>2</sub> is reflected in the equally dramatic decline in sulfate concentrations. These patterns generally mirror the decline in SO<sub>2</sub> emissions. In winter months there is a similar downward trend in SO<sub>2</sub> emissions and SO<sub>2</sub> concentrations. However, the particulate sulfate concentrations do not appear to decrease at the same rate.

In the winter months, regional ozone concentrations and other oxidants in photochemical smog are typically low, which leads to reduced conversion of SO<sub>2</sub> to sulfates. As shown in Figure 31, the trend in sulfates during the winter months is relatively flat compared to the SO<sub>2</sub> trend. These winter results dampen the signal for particulate sulfate reductions when aggregated annually as compared to SO<sub>2</sub>, and help explain the difference between the dramatic decrease in ambient SO<sub>2</sub> concentrations since the pre-ARP period (Figure 27) and the comparatively small decrease in annual particulate sulfates concentration (Figure 28).

\* Median, not mean, values are used because the median is a better representation of the geographic diversity of the monitored sites.

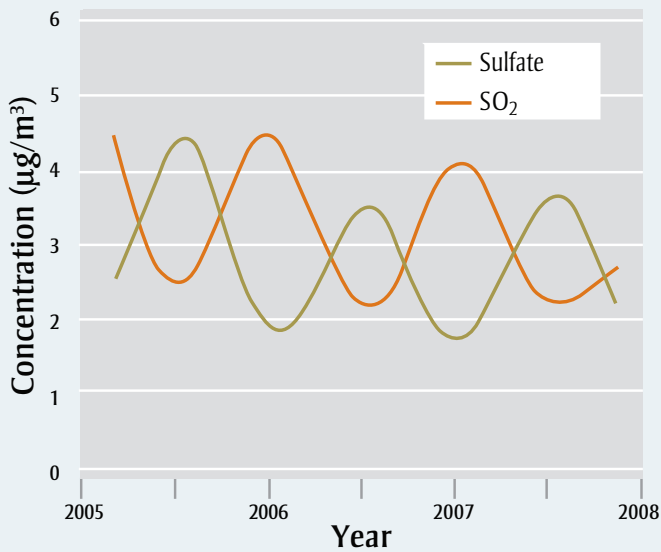
Figure 28: Trends in Regional Ambient Sulfate Concentrations (CASTNET Sites)



In addition, EPA program-driven reductions in ozone concentrations, background  $\text{NO}_x$  levels, and meteorological variables have changed the oxidative condition of the atmosphere over large regions in the United States. Since the rate of conversion of  $\text{SO}_2$  to particulate sulfate is controlled by the level of oxidant in the atmosphere, fluctuations in ozone concentrations will lead to changes in particulate

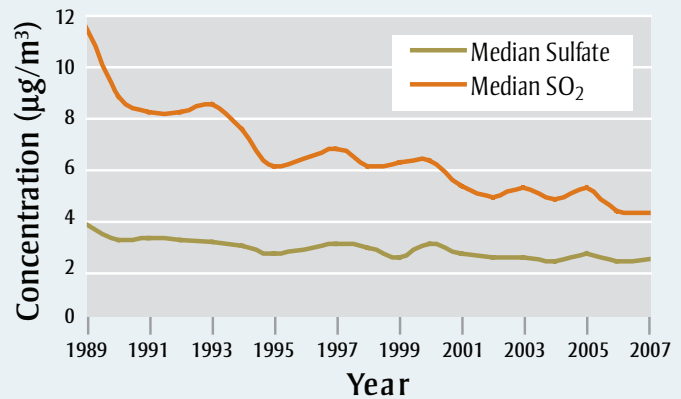
sulfate concentrations. Thus, it will continue to be important to sample for all species of oxidized sulfur in the atmosphere (gaseous  $\text{SO}_2$ , particulate sulfates, and sulfur in precipitation measured as aqueous sulfate) in evaluating the ongoing effectiveness of sulfur control programs.

Figure 29: Sulfur Seasonal Variability, 2005–2007



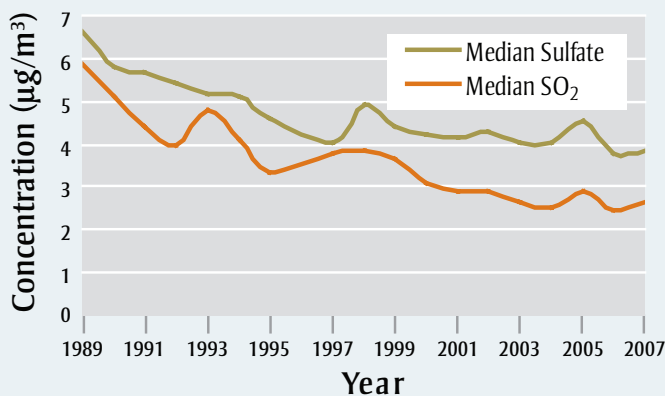
Source: CASTNET Dataset DryChem, EPA, 2008

Figure 31: Trends in Sulfate and  $\text{SO}_2$  Concentrations for October–April, 1989–2007



Source: CASTNET Dataset DryChem, EPA, 2008

Figure 30: Trends in Sulfate and  $\text{SO}_2$  Concentrations for May–September, 1989–2007



Source: CASTNET Dataset DryChem, EPA, 2008



The availability and transparency of data, from emission measurement to allowance trading to deposition monitoring, is a cornerstone of effective cap and trade programs. CAMD, in the Office of Air and Radiation's Office of Atmospheric Programs, develops and manages programs for collecting these data and assessing the effectiveness of cap and trade programs, including the ARP.

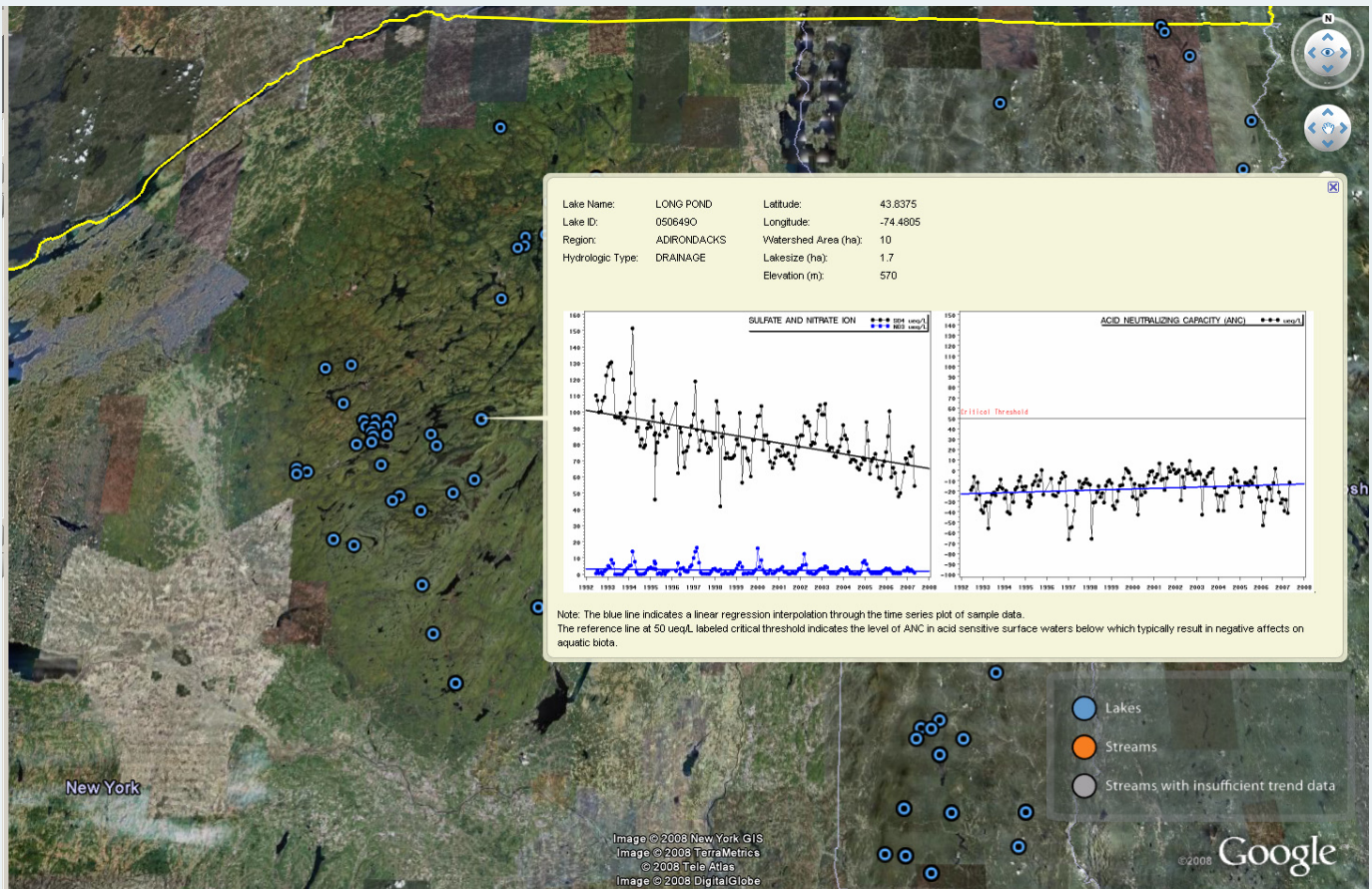
The CAMD Web site provides a public resource for general information on how market-based programs work and what they have accomplished, along with the processes, information, and tools necessary to participate in any of these market-based programs.

For information about EPA's air emission trading programs, see [www.epa.gov/airmarkets](http://www.epa.gov/airmarkets).

For information about the ARP, see [www.epa.gov/airmarkets/progsregs/arp/index.html](http://www.epa.gov/airmarkets/progsregs/arp/index.html).

EPA has created supplementary maps that allow the user to display geospatial data on an interactive 3D platform. The maps come in the form of a KMZ file (a compressed KML file) that is downloaded directly to your computer. You only need to download these files once, and then you can look

### Adirondack Water Quality



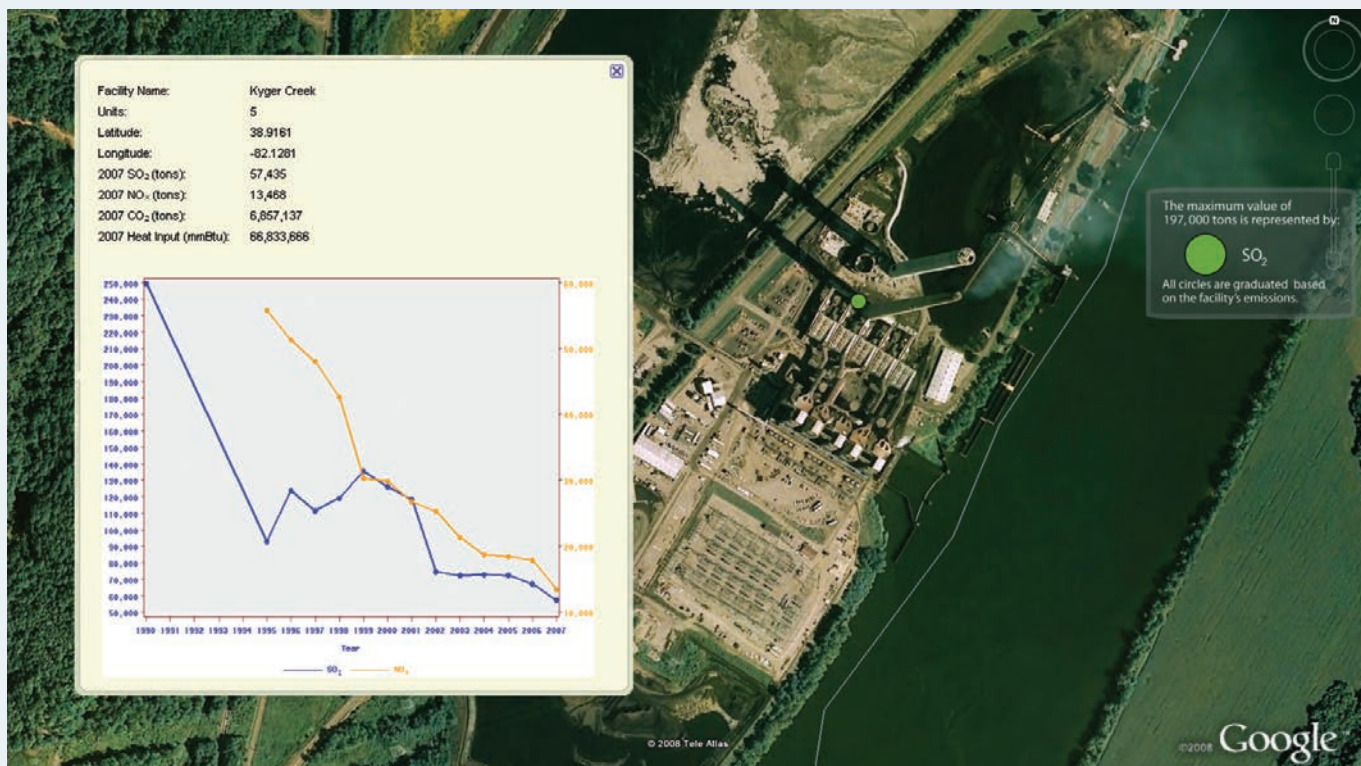
Detailed water quality monitoring information for the Adirondack region in New York. Clicking on individual monitoring sites displays monitoring site details and trend information.

at them as often as you wish. Data can be explored in new and meaningful ways by turning different layers on and off, overlaying data points and satellite imagery, and using navigation tools to change the view of the Earth's surface. KMZ/KML files are supported by programs such as Google Earth, ESRI Arc Explorer, and NASA WorldWind View. These

interactive mapping applications provide a unique way to identify environmental trends and track the progress of various EPA programs, such as the ARP.

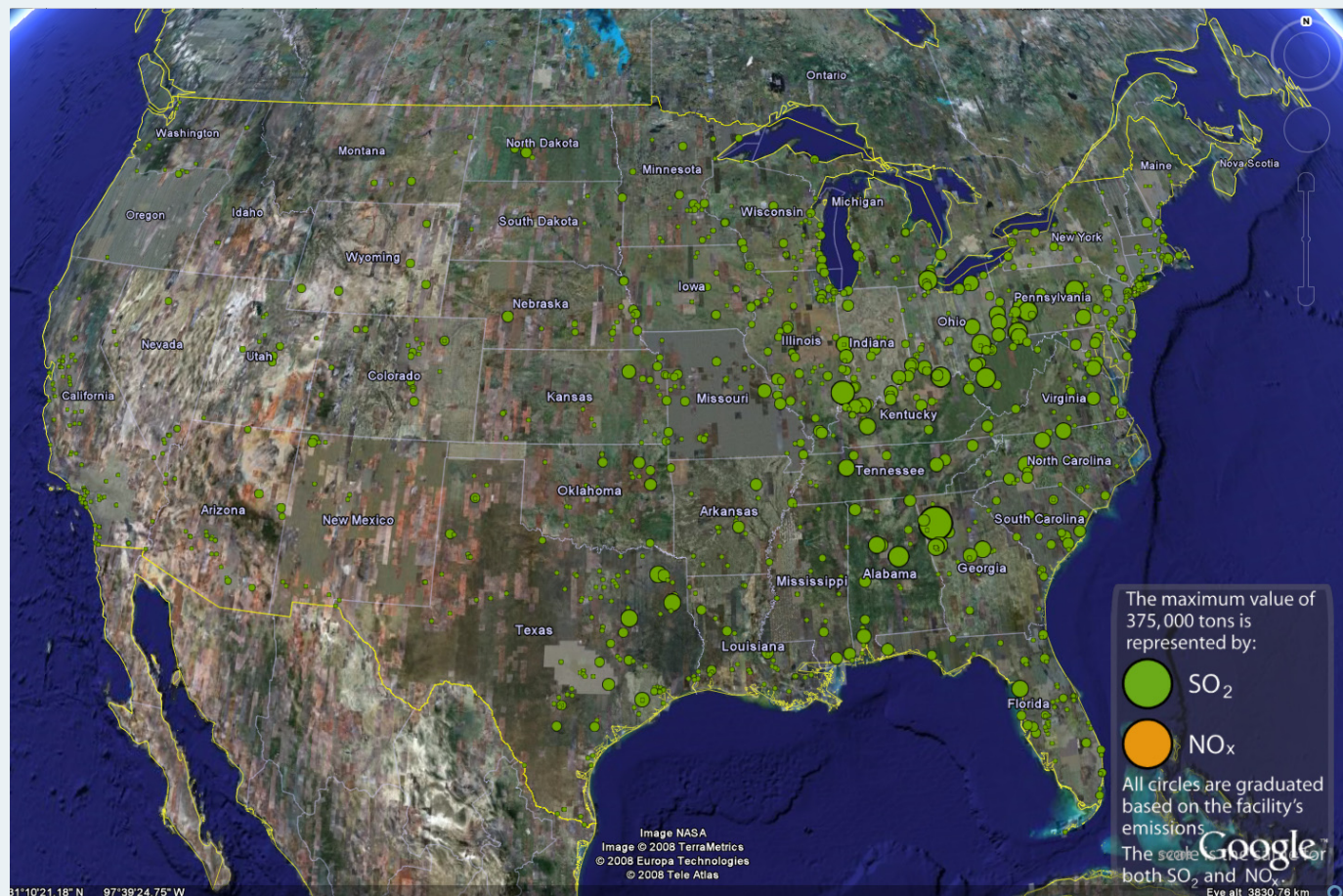
For more information or to utilize the program, visit the Web site at <<http://epa.gov/airmarkets/progress/interactivemapping.html>>.

## Unit-Level Emissions



This figure displays emissions data for the Kyger Creek plant in Ohio. Clicking on the site button reveals a pop-up with quick facts about ARP-controlled sources. Complete data for ARP sources including emissions and allowance trading is available at <<http://camddataandmaps.epa.gov/gdm/>>.

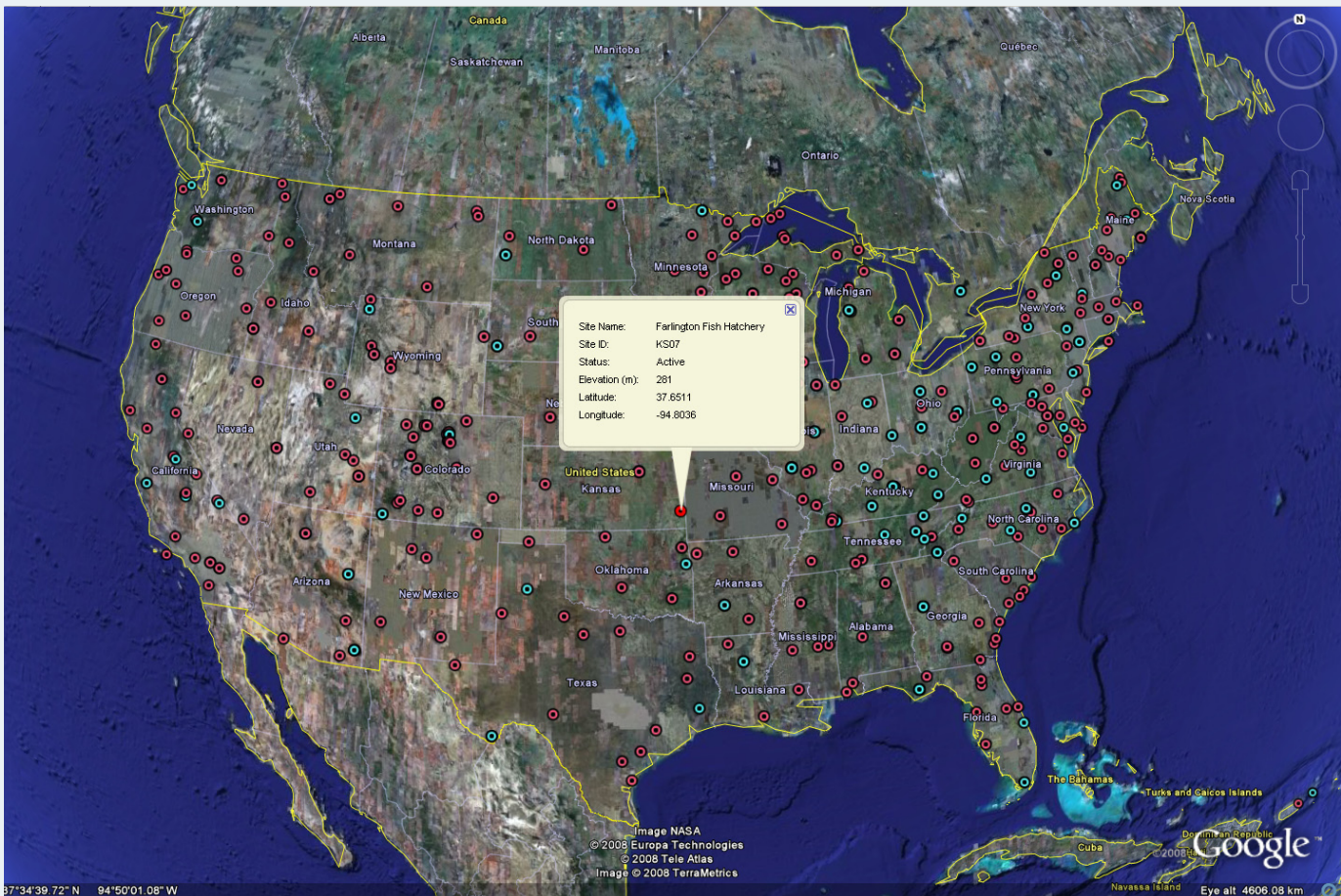
## U.S. SO<sub>2</sub> Emissions from Acid Rain Program Sources, 2007



*This example depicts 2007 SO<sub>2</sub> emissions from Acid Rain Program sources in the continental United States. Note that the legend displays both the SO<sub>2</sub> and NO<sub>x</sub> maximum value circles, even if only one pollutant (SO<sub>2</sub> in this example) is selected for display on the map.*



## National Air Quality Monitoring Network Locations



Map showing the locations of CASTNET and NADP air quality monitoring sites. Clicking on individual locations shows detail information for each site.

# ENDNOTES

1. See <[www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2007basedon2005v1.xls](http://www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2007basedon2005v1.xls)>.
2. Chestnut, L. G., and Mills, D. M. 2005. A fresh look at the benefits and costs of the U.S. Acid Rain Program. *Journal of Environmental Management*, 77(3): 252-256.
3. For the statutory provisions on allowance allocations, see Section 403 of the CAA, as amended in 1990. See <[www.epa.gov/air/caa/caa403.txt](http://www.epa.gov/air/caa/caa403.txt)>.
4. See <[www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2007basedon2005v1.xls](http://www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2007basedon2005v1.xls)>.
5. See <[www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2007basedon2005v1.xls](http://www.epa.gov/ttn/chief/trends/trends06/nationaltier1upto2007basedon2005v1.xls)>.
6. Detailed emissions and allowance data for ARP sources are available on the Data and Maps portion of EPA's Clean Air Markets Web site at <[www.epa.gov/airmarkets](http://www.epa.gov/airmarkets)>.
7. Allowance transfers are posted and updated daily on <[www.epa.gov/airmarkets](http://www.epa.gov/airmarkets)>.
8. The market price index (MPI) presented in this report is based on trade, bid, and offer price as tracked by CantorCO2e.
9. Note that very few trades occurred in October.
10. See details of this roadmap in:  
Mason, R.P., Abbott, M.L., Bodaly, R.A., Bullock, O.R., Driscoll, C.T., Evers, D., Lindberg, S.E., Murray, M., and Swain, E.B. 2005. Monitoring the response to changing mercury deposition. *Environmental Science & Technology*, 39(1):14A-22A.  
Harris, R., Krabbenhoft, D.P., Mason, R., Murry, M.W., Reash, R., and Saltman, T. 2007. *Ecosystem Responses to Mercury Contamination, Indicators of Change*. CRC Press. 240 pages.
11. See data available at <<http://nadp.sws.uiuc.edu/>>.
12. Driscoll, C.T., Lawrence, G., Bulger, A., Butler, T., Cronan, C., Eagar, C., Lambert, K.F., Likens, G.E., Stoddard, J., and Weathers, K. 2001. Acid deposition in the Northeastern U.S.: Sources and Inputs, Ecosystem Effects, and Management Strategies. *Bioscience*, 51:180-198.  
Webb, J. R., Cosby, B.J., Deviney, F.A. Jr., Galloway, J.N., Maben, S.W., and Bulger, A.J. 2004. Are Brook Trout Streams in Western Virginia and Shenandoah National Park Recovering from Acidification? *Environmental Science and Technology*, 38(15):4091-4096.
13. Dupont, J., Clair, T.A., Gagnon, C., Jeffries, D.S, Kahl, J.S., Nelson, S.J., and Peckenham, J.M. 2005. Estimation of Critical Loads of Acidity for Lakes in Northeastern United States and Eastern Canada, *Environmental Monitoring and Assessment*, 109:275-291.
14. These seasonal patterns in SO<sub>2</sub> and sulfates have been documented previously by:  
Sickles, J. E., II, and Shadwick, D. S. 2007. Seasonal and regional air quality and atmospheric deposition in the eastern United States. *Journal of Geophysical Research*, 112, D17302, doi:10.1029/2006JD008356.  
Hicks, B.B., Meyers, T. P., Hosker, R. P. Jr., and Artz, R. S. 2001. Climatological features of regional surface air quality from the Atmospheric Integrated Research Monitoring Network (AIRMoN) in the USA, *Atmospheric Environment*, 36(6): 1053-1068.  
Day, D. E., Malm, W. C., and Kreidenweis, S. M. 1997. Seasonal Variations in Aerosol Composition and Acidity at Shenandoah and Great Smoky Mountains National Parks. *Journal of the Air & Waste Management Association*, 47:411-418.





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**Appendix A: Acid Rain Program - Year 2007 SO2 Allowance Holdings And Deductions**

State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
AL	AMEA Sylacauga Plant	56018	1, 2	0	1	0		0	1
AL	Barry	3	1, 2, 3, 4, 5, 6A, 6B, 7A, 7B	51872	52343	51275		51275	1068
AL	Calhoun Power Company I, LLC	55409	CT1, CT2, CT3, CT4	0	6	4		4	2
AL	Charles R Lowman	56	1, 2, 3	14774	18818	16279		16279	2539
AL	Colbert	47	1, 2, 3, 4, 5	41776	86320	33301		33301	53019
AL	Decatur Energy Center	55292	CTG-1, CTG-2, CTG-3	0	7	6		6	1
AL	E B Harris Generating Plant	7897	1A, 1B, 2A, 2B	0	27	8		8	19
AL	E C Gaston	26	1, 2, 3, 4, 5	57815	144541	141307		141307	3234
AL	Gadsden	7	1, 2	3981	9756	9478		9478	278
AL	Gorgas	8	6, 7, 8, 9, 10	39880	74324	72601		72601	1723
AL	Greene County	10	1, 2, CT2, CT3, CT4, CT5, CT6, CT7, CT8, CT9, CT10	16411	31469	30650		30650	819
AL	Hog Bayou Energy Center	55241	COG01	0	1	0		0	1
AL	James H Miller Jr	6002	1, 2, 3, 4	57457	60375	59527		59527	848
AL	McIntosh (7063)	7063	**1, **2, **3	938	855	0		0	855
AL	McWilliams	533	**4, **V1, **V2	844	24	2		2	22
AL	Morgan Energy Center	55293	CT-1, CT-2, CT-3	0	9	8		8	1
AL	Plant H. Allen Franklin	7710	1A, 1B, 2A, 2B	0	23	8		8	15
AL	SABIC Innovative Plastics - Burksville	7698	CC1	0	6	2		2	4
AL	Tenaska Central Alabama Gen Station	55440	CTGDB1, CTGDB2, CTGDB3	0	18	2		2	16
AL	Tenaska Lindsay Hill	55271	CT1, CT2, CT3	0	6	3		3	3
AL	Theodore Cogeneration	7721	CC1	0	6	3		3	3
AL	Washington County Cogen (Olin)	7697	CC1	0	6	3		3	3
AL	Widows Creek	50	1, 2, 3, 4, 5, 6, 7, 8	35471	56118	32724		32724	23394
AR	Carl Bailey	202	01	10	259	5		5	254
AR	Cecil Lynch	167	2, 3	3	24	0		0	24
AR	City Water & Light - City of Jonesboro	56505	SN04, SN06, SN07	0	2	0		0	2
AR	Dell Power Plant	55340	1, 2	0	25	0		0	25
AR	Flint Creek Power Plant	6138	1	15192	40531	8723		8723	31808
AR	Fulton	7825	CT1	0	10	0		0	10
AR	Hamilton Moses	168	1, 2	0	4	0		0	4
AR	Harry D. Mattison Power Plant	56328	3, 4	0	7	0		0	7
AR	Harvey Couch	169	1, 2	119	837	0		0	837
AR	Hot Spring Power Co., LLC	55714	SN-01, SN-02	0	6	4		4	2
AR	Independence	6641	1, 2	36556	70927	29539		29539	41388

**Appendix A: Acid Rain Program - Year 2007 SO2 Allowance Holdings And Deductions**

State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
AR	KGen Hot Spring LLC	55418	CT-1, CT-2	0	4	2		2	2
AR	Lake Catherine	170	1, 2, 3, 4	164	1145	0		0	1145
AR	McClellan	203	01	15	803	433		433	370
AR	Oswald Generating Station	55221	G1, G2, G3, G4, G5, G6, G7	0	70	0		0	70
AR	Pine Bluff Energy Center	55075	CT-1	0	4	3		3	1
AR	Robert E Ritchie	173	1, 2	2201	1249	0		0	1249
AR	Thomas Fitzhugh	201	2	1	40	13		13	27
AR	Union Power Station	55380	CTG-1, CTG-2, CTG-3, CTG-4, CTG-5, CTG-6, CTG-7, CTG-8	0	39	8		8	31
AR	White Bluff	6009	1, 2	44840	65750	33516		33516	32234
AZ	Agua Fria Generating Station	141	1, 2, 3	196	1	0		0	1
AZ	Apache Station	160	1, 2, 3, 4	4951	6219	2662		2662	3557
AZ	APS Saguaro Power Plant	118	1, 2, CT3	229	510	0		0	510
AZ	APS West Phoenix Power Plant	117	CC4, CC5A, CC5B	33	20	5		5	15
AZ	Arlington Valley Energy Facility	55282	CTG1, CTG2	0	11	4		4	7
AZ	Cholla	113	1, 2, 3, 4	21147	26030	23523		23523	2507
AZ	Coronado Generating Station	6177	U1B, U2B	11636	16881	16881		16881	0
AZ	De Moss Petrie Generating Station	124	GT1	0	8	0		0	8
AZ	Desert Basin Generating Station	55129	DBG1, DBG2	0	4	4		4	0
AZ	Gila River Power Station	55306	1CTGA, 1CTGB, 2CTGA, 2CTGB, 3CTGA, 3CTGB, 4CTGA, 4CTGB	0	39	16		16	23
AZ	Griffith Energy LLC	55124	P1, P2	0	6	4		4	2
AZ	Irvinton Generating Station	126	1, 2, 3, 4	2898	2992	2908		2908	84
AZ	Kyrene Generating Station	147	K-1, K-2, K-7	25	2	2		2	0
AZ	Mesquite Generating Station	55481	1, 2, 5, 6	0	40	16		16	24
AZ	Navajo Generating Station	4941	1, 2, 3	75524	4437	4437		4437	0
AZ	New Harquahala Generating Company, LLC	55372	CTG1, CTG2, CTG3	0	13	6		6	7
AZ	Ocotillo Power Plant	116	1, 2	188	42	0		0	42
AZ	Redhawk Generating Facility	55455	CC1A, CC1B, CC2A, CC2B	0	29	8		8	21
AZ	Santan	8068	5A, 5B, 6A	0	9	9		9	0
AZ	South Point Energy Center, LLC	55177	A, B	0	7	5		5	2
AZ	Springerville Generating Station	8223	1, 2, TS3	14260	6280	5993		5993	287

**Appendix A: Acid Rain Program - Year 2007 SO2 Allowance Holdings And Deductions**

State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
AZ	Sundance Power Plant	55522	CT01, CT02, CT03, CT04, CT05, CT06, CT07, CT08, CT09, CT10	0	20	0		0	20
AZ	Yuma Axis	120	1	42	312	1		1	311
CA	AES Alamos	315	1, 2, 3, 4, 5, 6	9700	576	5		5	571
CA	AES Huntington Beach	335	1, 2, 3A, 4A	2796	342	7		7	335
CA	AES Redondo Beach	356	5, 6, 7, 8, 17	1372	177	2		2	175
CA	Agua Mansa Power	55951	AMP-1	0	0	0		0	0
CA	Almond Power Plant	7315	1	0	6	0		0	6
CA	Anaheim Combustion Turbine	7693	1	0	0	0		0	0
CA	Blythe Energy	55295	1, 2	0	6	3		3	3
CA	Broadway	420	B3	365	152	0		0	152
CA	Cabrillo Power I Encina Power Station	302	1, 2, 3, 4, 5	6800	13	13		13	0
CA	CalPeak Power - Border LLC	55510	GT-1, GT-2	0	0	0		0	0
CA	CalPeak Power - El Cajon LLC	55512	GT-1, GT-2	0	0	0		0	0
CA	CalPeak Power - Enterprise LLC	55513	GT-1, GT-2	0	0	0		0	0
CA	CalPeak Power - Panoche LLC	55508	GT-1, GT-2	0	0	0		0	0
CA	CalPeak Power - Vaca Dixon LLC	55499	GT-1, GT-2	0	0	0		0	0
CA	Calpine Gilroy Cogen, LP	10034	S-100	0	2	1		1	1
CA	Calpine Sutter Energy Center	55112	CT01, CT02	0	8	6		6	2
CA	Carson Cogeneration	7527	1, 2	0	7	2		2	5
CA	Carson Cogeneration Company	10169	D1	0	29	1		1	28
CA	Chula Vista Power Plant	55540	1A, 1B	0	2	0		0	2
CA	Coalinga Cogeneration Company	50131	1	0	2	1		1	1
CA	Contra Costa Power Plant	228	9, 10	4850	243	0		0	243
CA	Coolwater Generating Station	329	1, 2, 31, 32, 41, 42	16	6	4		4	2
CA	Cosumnes Power Plant	55970	2, 3	0	44	8		8	36
CA	Creed Energy Center	55625	UNIT1	0	1	0		0	1
CA	Delta Energy Center, LLC	55333	1, 2, 3	0	14	11		11	3
CA	Donald Von Raesfeld	56026	PCT1, PCT2	0	229	2		2	227
CA	Dynegy South Bay, LLC	310	1, 2, 3, 4	7047	14	4		4	10
CA	El Centro	389	3, 4, 2-2	1485	5993	1		1	5992
CA	El Segundo	330	3, 4	1082	82	2		2	80
CA	Elk Hills Power	55400	CTG-1, CTG-2	0	18	8		8	10
CA	Escondido Power Plant	55538	CT1A, CT1B	0	2	0		0	2
CA	Etiwanda Generating Station	331	3, 4	1779	5	2		2	3

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
CA	Feather River Energy Center	55847	UNIT1	0	1	0		0	1
CA	Fresno Cogeneration Partners, LP	10156	GEN1	0	0	0		0	0
CA	Gilroy Energy Center, LLC	55810	S-3, S-4, S-5	0	3	0		0	3
CA	Gilroy Energy Center, LLC for King City	10294	2	0	1	0		0	1
CA	Glenarm	422	GT3, GT4	0	584	0		0	584
CA	Goose Haven Energy Center	55627	UNIT1	0	1	0		0	1
CA	Grayson Power Plant	377	4, 5, 9	138	1094	1		1	1093
CA	Hanford Energy Park Peaker	55698	HEP1, HEP2	0	4	0		0	4
CA	Harbor Generating Station	399	10, 11, 12, 13, 14, **10A, **10B	2348	365	0		0	365
CA	Haynes Generating Station	400	1, 2, 5, 6, 9, 10	6193	18066	10		10	18056
CA	Henrietta Peaker Plant	55807	HPP1, HPP2	0	4	0		0	4
CA	High Desert Power Project	55518	CTG1, CTG2, CTG3	0	11	9		9	2
CA	Humboldt Bay	246	1, 2	382	579	44		44	535
CA	Indigo Generation Facility	55541	1, 2, 3	0	0	0		0	0
CA	Kings River Conservation District Malaga	56239	GT-1, GT-2	0	0	0		0	0
CA	La Paloma Generating Plant	55151	CTG-1, CTG-2, CTG-3, CTG-4	0	30	15		15	15
CA	Lake	7987	01	0	16	0		0	16
CA	Lambie Energy Center	55626	UNIT1	0	1	0		0	1
CA	Larkspur Energy Facility	55542	1, 2	0	5	2		2	3
CA	Los Esteros Critical Energy Fac	55748	CTG1, CTG2, CTG3, CTG4	0	4	0		0	4
CA	Los Medanos Energy Center, LLC	55217	X724, X725	0	10	8		8	2
CA	Magnolia	56046	1	0	9	2		2	7
CA	Malburg Generating Station	56041	M1, M2	0	41	2		2	39
CA	Mandalay Generating Station	345	1, 2	2670	4	2		2	2
CA	Metcalf Energy Center	55393	1, 2	0	9	7		7	2
CA	Miramar Energy Facility	56232	1	0	2	0		0	2
CA	Morro Bay Power Plant, LLC	259	1, 2, 3, 4	8575	9	2		2	7
CA	Moss Landing	260	1A, 2A, 3A, 4A, 6-1, 7-1	10567	38	19		19	19
CA	Mountainview Power Company, LLC	358	3-1, 3-2, 4-1, 4-2	135	43	14		14	29
CA	NCPA Combustion Turbine Project #2	7449	NA1	0	23	0		0	23
CA	Olive	6013	01, 02	158	92	0		0	92
CA	Ormond Beach Generating Station	350	1, 2	9106	5	3		3	2
CA	Palomar Energy	55985	CTG1, CTG2	0	10	8		8	2
CA	Pastoria Energy Facility	55656	CT001, CT002, CT004	0	14	11		11	3



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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
CA	Pittsburg Power Plant (CA)	271	5, 6, 7	10937	500	0		0	500
CA	Potrero Power Plant	273	3-1	321	8	2		2	6
CA	Redding Power Plant	7307	5	0	66	1		1	65
CA	Ripon Generation Station	56135	1, 2	0	20	0		0	20
CA	Riverside Energy Resource Center	56143	1, 2	0	0	0		0	0
CA	Riverview Energy Center	55963	1	0	1	0		0	1
CA	Roseville Energy Park	56298	CT001, CT002	0	21	0		0	21
CA	Sacramento Power Authority Cogen	7552	1	0	10	3		3	7
CA	Salinas River Cogeneration Company	50865	1	0	2	1		1	1
CA	Sargent Canyon Cogen Company	50864	1	0	2	1		1	1
CA	SCA Cogen II	7551	1A, 1B, 1C	0	21	2		2	19
CA	Scattergood Generating Station	404	1, 2, 3	1672	5052	14		14	5038
CA	Sunrise Power Company	55182	CTG1, CTG2	0	10	8		8	2
CA	Tracy Peaker	55933	TPP1, TPP2	0	8	0		0	8
CA	Valley Gen Station	408	5, 6, 7	1003	14955	7		7	14948
CA	Walnut Energy Center	56078	1, 2	0	10	4		4	6
CA	Wellhead Power Gates, LLC	55875	GT1	0	0	0		0	0
CA	Wolfskill Energy Center	55855	UNIT1	0	1	0		0	1
CA	Woodland Generation Station	7266	1, 2	0	195	1		1	194
CA	Yuba City Energy Center	10349	2	0	1	0		0	1
CO	Arapahoe	465	3, 4	2576	3236	2963		2963	273
CO	Arapahoe Combustion Turbine	55200	CT5, CT6	0	12	0		0	12
CO	Blue Spruce Energy Center	55645	CT-01, CT-02	0	6	5		5	1
CO	Brush 3	10682	GT2	0	7	0		0	7
CO	Brush 4	55209	GT4, GT5	0	7	0		0	7
CO	Cameo	468	2	904	1797	1639		1639	158
CO	Cherokee	469	1, 2, 3, 4	16272	25100	7082		7082	18018
CO	Comanche (470)	470	1, 2	14612	16058	12605		12605	3453
CO	Craig	6021	C1, C2, C3	18665	3989	3799		3799	190
CO	Fort St. Vrain	6112	2, 3, 4	0	21	9		9	12
CO	Fountain Valley Combustion Turbine	55453	1, 2, 3, 4, 5, 6	0	36	0		0	36
CO	Frank Knutson Station	55505	BR1, BR2	0	12	2		2	10
CO	Front Range Power Plant	55283	1, 2	0	9	6		6	3
CO	Hayden	525	H1, H2	15293	2855	2718		2718	137
CO	Limon Generating Station	55504	L1, L2	0	11	1		1	10
CO	Manchief Station	55127	CT1, CT2	0	6	2		2	4
CO	Martin Drake	492	5, 6, 7	6398	10129	9129		9129	1000

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
CO	Nucla	527	1	1122	1266	1230		1230	36
CO	Pawnee	6248	1	14443	17652	14126		14126	3526
CO	Rawhide Energy Station	6761	A, B, C, D, 101	1800	5780	928		928	4852
CO	Ray D Nixon	8219	1, 2, 3	4477	4517	4043		4043	474
CO	Rocky Mountain Energy Center	55835	1, 2	0	9	8		8	1
CO	Spindle Hill Energy Center	56445	CT-01, CT-02	0	10	6		6	4
CO	Valmont	477	5	3165	5550	788		788	4762
CO	Valmont Combustion Turbine Facility	55207	CT7, CT8	0	15	0		0	15
CO	Zuni	478	1, 2, 3	345	354	2		2	352
CT	Alfred L Pierce Generating Station	6635		0	7	0		0	7
CT	Bridgeport Energy	55042	BE1, BE2	0	19	6		6	13
CT	Bridgeport Harbor Station	568	BHB1, BHB2, BHB3	18287	6050	2744		2744	3306
CT	Capitol District Energy Center	50498	GT	0	2	0		0	2
CT	Devon	544	7, 8, 11, 12, 13, 14	8340	4171	0		0	4171
CT	Lake Road Generating Company	55149	LRG1, LRG2, LRG3	0	14	8		8	6
CT	Middletown	562	2, 3, 4	7518	23489	513		513	22976
CT	Milford Power Company LLC	55126	CT01, CT02	0	6	6		6	0
CT	Montville	546	5, 6	6883	23879	127		127	23752
CT	New Haven Harbor	6156	NHB1	13070	4764	815		815	3949
CT	Norwalk Harbor Station	548	1, 2	10599	10103	560		560	9543
CT	Wallingford Energy	55517	CT01, CT02, CT03, CT04, CT05	0	40	0		0	40
DC	Benning Generation Station	603	15, 16	1373	178	141		141	37
DE	Delaware City Refinery	52193	DCPP4	0	65	28		28	37
DE	Edge Moor	593	3, 4, 5	16316	9180	9112		9112	68
DE	Hay Road	7153	5, 6, 7, **3	158	26	7		7	19
DE	Indian River	594	1, 2, 3, 4	25035	24696	23471		23471	1225
DE	McKee Run	599	3	2585	370	98		98	272
DE	NRG Energy Center Dover	10030	2, 3	0	10	0		0	10
DE	Van Sant	7318	**11	138	277	0		0	277
DE	Warren F. Sam Beasley Pwr Station	7962	1	0	5	1		1	4
FL	Anclote	8048	1, 2	27785	36822	27039		27039	9783
FL	Arvah B Hopkins	688	1, 2, HC3, HC4	5605	1028	498		498	530
FL	Auburndale Cogeneration Facility	54658	1, 6	0	3	2		2	1
FL	Bayside Power Station	7873	CT1A, CT1B, CT1C, CT2A, CT2B, CT2C, CT2D	0	20	18		18	2

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
FL	Big Bend	645	BB01, BB02, BB03, BB04	44567	12205	9903		9903	2302
FL	Brandy Branch	7846	1, 2, 3	0	175	4		4	171
FL	C D McIntosh Jr Power Plant	676	1, 2, 3, 5	11867	33036	7473		7473	25563
FL	Cane Island	7238	2, 3, **1	0	36	4		4	32
FL	Cape Canaveral	609	PCC1, PCC2	9188	16326	4296		4296	12030
FL	Charles Larsen Memorial Power Plant	675	**8	972	3429	0		0	3429
FL	Crist Electric Generating Plant	641	4, 5, 6, 7	25866	89114	41182		41182	47932
FL	Crystal River	628	1, 2, 4, 5	75640	120458	92321		92321	28137
FL	Curtis H. Stanton Energy Center	564	1, 2	11294	24383	6468		6468	17915
FL	Cutler	610	PCU5, PCU6	0	5	0		0	5
FL	Debary	6046	**7, **8, **9, **10	2820	8371	51		51	8320
FL	Deerhaven	663	B1, B2, CT3	8369	10456	7949		7949	2507
FL	Desoto County Generating Co, LLC	55422	CT1, CT2	0	7	1		1	6
FL	Fort Myers	612	PFM3A, PFM3B, FMCT2A, FMCT2B, FMCT2C, FMCT2D, FMCT2E, FMCT2F	12649	26905	21		21	26884
FL	Hardee Power Station	50949	CT2B	0	39	0		0	39
FL	Henry D King	658	7, 8	89	59	0		0	59
FL	Hines Energy Complex	7302	1A, 1B, 2A, 2B, 3A, 3B	0	448	16		16	432
FL	Indian River (55318)	55318	1, 2, 3	6408	950	914		914	36
FL	Indian River (683)	683	**C, **D	639	4450	0		0	4450
FL	Intercession City	8049	**7, **8, **9, **10, **11, **12, **13, **14	2820	4184	23		23	4161
FL	J D Kennedy	666	7	2725	60	0		0	60
FL	J R Kelly	664	CC1	58	173	1		1	172
FL	Lansing Smith Generating Plant	643	1, 2, 4, 5	14081	37090	15203		15203	21887
FL	Lauderdale	613	4GT1, 4GT2, 5GT1, 5GT2	5364	7900	12		12	7888
FL	Manatee	6042	PMT1, PMT2, MTCT3A, MTCT3B, MTCT3C, MTCT3D	26478	46759	11815		11815	34944
FL	Martin	6043	PMR1, PMR2, PMR8A, PMR8B, PMR8C, PMR8D, HRSG3A, HRSG3B, HRSG4A, HRSG4B	17901	28105	10573		10573	17532

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
FL	Midulla Generating Station	7380	1, 2, 4A, 4B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B	0	159	2		2	157
FL	Mulberry Cogeneration Facility	54426	1	0	1	1		1	0
FL	Northside	667	3, 1A, 2A	23618	5849	4216		4216	1633
FL	Oleander Power Project	55286	O-1, O-2, O-3, O-4	0	14	2		2	12
FL	Orange Cogeneration Facility	54365	1, 2	0	3	2		2	1
FL	Orlando CoGen	54466	1	0	3	2		2	1
FL	Osprey Energy Center	55412	CT1, CT2	0	6	5		5	1
FL	P L Bartow	634	1, 2, 3	11198	14931	12430		12430	2501
FL	Polk	7242	**1, **2, **3, **4, **5	0	1075	1071		1071	4
FL	Port Everglades	617	PPE1, PPE2, PPE3, PPE4	16600	28179	10252		10252	17927
FL	Putnam	6246	HRSG11, HRSG12, HRSG21, HRSG22	6424	13320	4		4	13316
FL	Reedy Creek	7254	32432	60	477	0		0	477
FL	Reliant Energy Osceola	55192	OSC1, OSC2, OSC3	0	3	1		1	2
FL	Riviera	619	PRV3, PRV4	7214	11352	5685		5685	5667
FL	S O Purdom	689	7, 8	443	24	4		4	20
FL	Sanford	620	PSN3, SNCT4A, SNCT4B, SNCT4C, SNCT4D, SNCT5A, SNCT5B, SNCT5C, SNCT5D	12922	36253	326		326	35927
FL	Santa Rosa Energy Center	55242	CT-1	0	1	0		0	1
FL	Scholz Electric Generating Plant	642	1, 2	4010	36850	4983		4983	31867
FL	Seminole (136)	136	1, 2	36776	55560	20335		20335	35225
FL	Shady Hills	55414	GT101, GT201, GT301	0	17	12		12	5
FL	St. Johns River Power	207	1, 2	22960	16677	13657		13657	3020
FL	Stanton A	55821	25, 26	0	19	4		4	15
FL	Stock Island	6584	CT4	2572	216	2		2	214
FL	Suwannee River	638	1, 2, 3	1156	2256	884		884	1372
FL	Tiger Bay	7699	1	0	98	2		2	96
FL	Tom G Smith	673	S-3	89	570	0		0	570
FL	Turkey Point	621	PTP1, PTP2, TPCT5A, TPCT5B, TPCT5C, TPCT5D	11783	20956	7904		7904	13052
FL	University of Florida	7345	1	0	16	1		1	15
FL	Vandolah Power Project	55415	GT101, GT201, GT301, GT401	0	103	17		17	86

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
FL	Vero Beach Municipal	693	3, 4, **5	739	1818	0		0	1818
GA	Baconton	55304	CT1, CT4, CT5, CT6	0	20	0		0	20
GA	Bowen	703	1BLR, 2BLR, 3BLR, 4BLR	109781	211841	196841		196841	15000
GA	Chattahoochee Energy Facility	7917	8A, 8B	0	6	3		3	3
GA	Dahlberg (Jackson County)	7765	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	0	13	1		1	12
GA	Doyle Generating Facility	55244	CTG-1, CTG-2, CTG-3, CTG-4, CTG-5	0	50	0		0	50
GA	Effingham County Power, LLC	55406	1, 2	0	5	3		3	2
GA	Hammond	708	1, 2, 3, 4	27835	105919	47808		47808	58111
GA	Harlee Branch	709	1, 2, 3, 4	53485	99218	98363		98363	855
GA	Hartwell Energy Facility	70454	MAG1, MAG2	0	4	0		0	4
GA	Heard County Power, LLC	55141	CT1, CT2, CT3	0	0	0		0	0
GA	Jack McDonough	710	MB1, MB2	17469	29176	28538		28538	638
GA	KGen Sandersville LLC	55672	CT1, CT2, CT3, CT4, CT5, CT6, CT7, CT8	0	2	0		0	2
GA	Kraft	733	1, 2, 3, 4	6440	9357	7705		7705	1652
GA	McIntosh (6124)	6124	1, CT1, CT2, CT3, CT4, CT5, CT6, CT7, CT8	5556	6423	3414		3414	3009
GA	McIntosh Combined Cycle Facility	56150	10A, 10B, 11A, 11B	0	20	12		12	8
GA	McManus	715	1, 2	2123	9520	338		338	9182
GA	Mid-Georgia Cogeneration	55040	1, 2	0	11	0		0	11
GA	Mitchell (GA)	727	3	5463	6536	4919		4919	1617
GA	MPC Generating, LLC	7764	1, 2	0	0	0		0	0
GA	Murray Energy Facility	55382	CCCT1, CCCT2, CCCT3, CCCT4	0	5	4		4	1
GA	Robins	7348	CT1, CT2	0	2	0		0	2
GA	Scherer	6257	1, 2, 3, 4	84823	118921	76456		76456	42465
GA	Sewell Creek Energy	7813	1, 2, 3, 4	0	8	0		0	8
GA	Smarr Energy Facility	7829	1, 2	0	4	0		0	4
GA	Sowega Power Project	7768	CT2, CT3	0	10	0		0	10
GA	Talbot Energy Facility	7916	1, 2, 3, 4, 5, 6	0	40	1		1	39
GA	Tenaska Georgia Generating Station	55061	CT1, CT2, CT3, CT4, CT5, CT6	0	4	0		0	4
GA	Walton County Power, LLC	55128	T1, T2, T3	0	3	0		0	3
GA	Wansley (6052)	6052	1, 2, 6A, 6B, 7A, 7B	58728	97755	93850		93850	3905
GA	Wansley (7946)	7946	CT9A, CT9B	0	2	2		2	0

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
GA	Washington County Power, LLC	55332	T1, T2, T3, T4	0	4	0		0	4
GA	West Georgia Generating Company	55267	1, 2, 3, 4	0	5	0		0	5
GA	Yates	728	Y1BR, Y2BR, Y3BR, Y4BR, Y5BR, Y6BR, Y7BR	38220	77478	77219		77219	259
IA	Ames	1122	7, 8	2237	5271	1082		1082	4189
IA	Burlington (IA)	1104	1	4499	4870	4831		4831	39
IA	Dayton Avenue Substation	6463	GT2	0	26	0		0	26
IA	Dubuque	1046	1, 5, 6	1425	1440	1396		1396	44
IA	Earl F Wisdom	1217	1, 2	379	2213	973		973	1240
IA	Emery Station	8031	11, 12	0	17	4		4	13
IA	Exira Station	56013	U-1, U-2, U-3	0	110	0		0	110
IA	Fair Station	1218	2	5575	7038	2519		2519	4519
IA	George Neal North	1091	1, 2, 3	23688	30476	23500		23500	6976
IA	George Neal South	7343	4	15144	19271	17269		17269	2002
IA	Greater Des Moines Energy Center	7985	1, 2	0	30	2		2	28
IA	Lansing	1047	1, 2, 3, 4	5107	6623	6604		6604	19
IA	Lime Creek	7155	**1, **2	510	160	117		117	43
IA	Louisa	6664	101	15593	16369	11726		11726	4643
IA	Milton L Kapp	1048	2	5795	4055	4029		4029	26
IA	Muscatine	1167	8, 9	3389	10116	3447		3447	6669
IA	Ottumwa	6254	1	19095	19118	13862		13862	5256
IA	Pella	1175	6, 7, 8	1803	7639	348		348	7291
IA	Pleasant Hill Energy Center	7145	3	0	21	0		0	21
IA	Prairie Creek	1073	3, 4	4159	3897	3863		3863	34
IA	Riverside (1081)	1081	9	1745	3490	2993		2993	497
IA	Sixth Street	1058	2, 3, 4, 5	1530	1149	1126		1126	23
IA	Streeter Station	1131	7	554	1993	1048		1048	945
IA	Sutherland	1077	1, 2, 3	2766	9831	9767		9767	64
IA	Walter Scott Jr. Energy Center	1082	1, 2, 3, 4	18717	22277	19797		19797	2480
ID	Bennett Mountain Power Project	55733	CT01	0	100	1		1	99
ID	Evander Andrews Power Complex	7953	CT2, CT3	0	400	0		0	400
ID	Rathdrum Combustion Turbine Project	7456	1, 2	0	0	0		0	0
ID	Rathdrum Power, LLC	55179	CTGEN1	0	5	3		3	2
IL	Baldwin Energy Complex	889	1, 2, 3	55620	39917	26329		26329	13588
IL	Calumet Energy Team	55296	**1, **2	0	10	0		0	10
IL	Coffeen	861	01, 02	20466	26835	24250		24250	2585

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
IL	Cordova Energy Company	55188	1, 2	0	14	2		2	12
IL	Crawford	867	7, 8	17086	10215	8882		8882	1333
IL	Crete Energy Park	55253	GT1, GT2, GT3, GT4	0	0	0		0	0
IL	Dallman	963	31, 32, 33	8152	8152	3464		3464	4688
IL	Duck Creek	6016	1	11201	13132	548		548	12584
IL	E D Edwards	856	1, 2, 3	18940	26775	14536		14536	12239
IL	Elgin Energy Center	55438	CT01, CT02, CT03, CT04	0	20	0		0	20
IL	Elwood Energy Facility	55199	1, 2, 3, 4, 5, 6, 7, 8, 9	0	225	0		0	225
IL	Fisk	886	19	10032	5698	4954		4954	744
IL	Freedom Power Project	7842	CT1	0	0	0		0	0
IL	Geneva Energy, LLC	55174	1	0	4	2		2	2
IL	Gibson City Power Plant	55201	GCTG1, GCTG2	0	25	0		0	25
IL	Goose Creek Power Plant	55496	CT-01, CT-02, CT-03, CT-04, CT-05, CT-06	0	12	0		0	12
IL	Grand Tower	862	CT01, CT02	3030	3182	2		2	3180
IL	Havana	891	1, 2, 3, 4, 5, 6, 7, 8, 9	9095	12839	7319		7319	5520
IL	Hennepin Power Station	892	1, 2	9958	11586	4888		4888	6698
IL	Holland Energy Facility	55334	CTG1, CTG2	0	2	2		2	0
IL	Hutsonville	863	05, 06	4525	7550	2953		2953	4597
IL	Interstate	7425	1	0	5	0		0	5
IL	Joliet 29	384	71, 72, 81, 82	28611	17467	15189		15189	2278
IL	Joliet 9	874	5	8676	5839	5077		5077	762
IL	Joppa Steam	887	1, 2, 3, 4, 5, 6	28992	31395	26282		26282	5113
IL	Kendall Energy Facility	55131	GTG-1, GTG-2, GTG-3, GTG-4	0	15	4		4	11
IL	Kincaid Station	876	1, 2	28578	17183	17164		17164	19
IL	Kinmundy Power Plant	55204	KCTG1, KCTG2	0	10	0		0	10
IL	Lakeside	964	7, 8	4303	11266	10436		10436	830
IL	Lee Energy Facility	55236	CT1, CT2, CT3, CT4, CT5, CT6, CT7, CT8	0	3	0		0	3
IL	Lincoln Generating Facility	55222	CTG-1, CTG-2, CTG-3, CTG-4, CTG-5, CTG-6, CTG-7, CTG-8	0	16	0		0	16
IL	Marion	976	4, 5, 6, 123	13361	15386	4898		4898	10488
IL	MEPI Gt Facility	7858	1, 2, 3, 4, 5	0	25	0		0	25
IL	Meredosia	864	01, 02, 03, 04, 05, 06	7192	18385	11389		11389	6996
IL	Newton	6017	1, 2	29557	26094	23497		23497	2597

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
IL	NRG Rockford Energy Center	55238	0001, 0002	0	53	0		0	53
IL	NRG Rockford II Energy Center	55936	U1	0	1	0		0	1
IL	Pinckneyville Power Plant	55202	CT01, CT02, CT03, CT04, CT05, CT06, CT07, CT08	0	40	0		0	40
IL	Powerton	879	51, 52, 61, 62	42393	23624	20542		20542	3082
IL	PPL University Park Power Project	55640	CT01, CT02, CT03, CT04, CT05, CT06, CT07, CT08, CT09, CT10, CT11, CT12	0	24	0		0	24
IL	Raccoon Creek Power Plant	55417	CT-01, CT-02, CT-03, CT-04	0	8	0		0	8
IL	Reliant Energy - Aurora	55279	AGS01, AGS02, AGS03, AGS04, AGS05, AGS06, AGS07, AGS08, AGS09, AGS10	0	10	0		0	10
IL	Reliant Energy Shelby County	55237	SCE1, SCE2, SCE3, SCE4, SCE5, SCE6, SCE7, SCE8	0	8	0		0	8
IL	Rocky Road Power, LLC	55109	T1, T2, T3, T4	0	0	0		0	0
IL	Southeast Chicago Energy Project	55281	CTG5, CTG6, CTG7, CTG8, CTG9, CTG10, CTG11, CTG12	0	100	0		0	100
IL	Tilton Power Station	7760	1, 2, 3, 4	0	12	0		0	12
IL	University Park Energy	55250	UP1, UP2, UP3, UP4, UP5, UP6, UP7, UP8, UP9, UP10, UP11, UP12	0	0	0		0	0
IL	Venice	913	CT03, CT04, CT05, CT2A, CT2B	62	144	0		0	144
IL	Vermilion Power Station	897	1, 2	6666	9744	2022		2022	7722
IL	Waukegan	883	7, 8, 17	19158	16091	13993		13993	2098
IL	Will County	884	1, 2, 3, 4	30971	19909	17311		17311	2598
IL	Wood River Power Station	898	1, 2, 3, 4, 5	11749	13312	6462		6462	6850
IL	Zion Energy Center	55392	CT-1, CT-2, CT-3	0	1	0		0	1
IN	A B Brown Generating Station	6137	1, 2, 3, 4	10527	11074	8745		8745	2329
IN	Alcoa Allowance Management Inc	6705	1, 2, 3, 4	99281	79614	78825	3	78828	786
IN	Anderson	7336	ACT1, ACT2, ACT3	0	13	0		0	13
IN	Bailly Generating Station	995	7, 8	11683	5193	4314		4314	879
IN	C. C. Perry K Steam Plant	992	11	1796	600	22	533	555	45



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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
IN	Cayuga	1001	1, 2, 4	30203	95323	90783		90783	4540
IN	Clifty Creek	983	1, 2, 3, 4, 5, 6	50488	71884	66884		66884	5000
IN	Dean H Mitchell Generating Station	996	4, 5, 6, 11	11762	0	0		0	0
IN	Edwardsport	1004	6-1, 7-1, 7-2, 8-1	1076	6497	6188		6188	309
IN	F B Culley Generating Station	1012	2, 3	9904	3715	3676		3676	39
IN	Frank E Ratts	1043	1SG1, 2SG1	7253	23375	21286		21286	2089
IN	Georgetown Substation	7759	GT1, GT2, GT3, GT4	0	13	0		0	13
IN	Gibson	6113	1, 2, 3, 4, 5	88393	76593	72947		72947	3646
IN	Harding Street Station (EW Stout)	990	9, 10, 50, 60, 70, GT4, GT5, GT6	13915	36339	36201		36201	138
IN	Henry County Generating Station	7763	1, 2, 3	0	6	0		0	6
IN	Hoosier Energy Lawrence Co Station	7948	1, 2, 3, 4, 5, 6	0	0	0		0	0
IN	IPL Eagle Valley Generating Station	991	1, 2, 3, 4, 5, 6	3858	16502	16101		16101	401
IN	Lawrenceburg Energy Facility	55502	1, 2, 3, 4	0	38	4		4	34
IN	Merom	6213	1SG1, 2SG1	29748	22419	11294		11294	11125
IN	Michigan City Generating Station	997	4, 5, 6, 12	12990	13502	13492		13492	10
IN	Montpelier Electric Gen Station	55229	G1CT1, G1CT2, G2CT1, G2CT2, G3CT1, G3CT2, G4CT1, G4CT2	0	0	0		0	0
IN	Noblesville	1007	CT3, CT4, CT5	160	46	0		0	46
IN	Petersburg	994	1, 2, 3, 4	54094	23000	22500		22500	500
IN	R Gallagher	1008	1, 2, 3, 4	11795	62992	59992		59992	3000
IN	R M Schahfer Generating Station	6085	14, 15, 17, 18	31463	39813	39803		39803	10
IN	Richmond (IN)	7335	RCT1, RCT2	0	9	0		0	9
IN	Rockport	6166	MB1, MB2	66006	63086	48833		48833	14253
IN	State Line Generating Station (IN)	981	3, 4	11650	18200	9333		9333	8867
IN	Sugar Creek Power Company, LLC	55364	CT11, CT12	0	2	0		0	2
IN	Tanners Creek	988	U1, U2, U3, U4	20359	34846	33829		33829	1017
IN	Vermillion Energy Facility	55111	1, 2, 3, 4, 5, 6, 7, 8	0	4	0		0	4
IN	Wabash River Gen Station	1010	1, 2, 3, 4, 5, 6	13140	63901	60858		60858	3043
IN	Wheatland Generating Facility LLC	55224	EU-01, EU-02, EU-03, EU-04	0	8	0		0	8
IN	Whitewater Valley	1040	1, 2	8932	9661	8614		8614	1047
IN	Whiting Clean Energy, Inc.	55259	CT1, CT2	0	89	4		4	85
IN	Worthington Generation	55148	1, 2, 3, 4	0	4	0		0	4
KS	Chanute 2	1268	14	0	0	0		0	0
KS	Cimarron River	1230	1	12	18	1		1	17

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KS	Coffeyville	1271	4	11	63	0		0	63
KS	East 12th Street	7013	4	10	76	0		0	76
KS	Fort Dodge aka Judson Large	1233	4	39	48	2		2	46
KS	Garden City	1336	S-2	0	60	0		0	60
KS	Gordon Evans Energy Center	1240	1, 2, E1CT, E2CT, E3CT	89	3	1		1	2
KS	Great Bend Station aka Arthur Mullergren	1235	3	1	8	1		1	7
KS	Holcomb	108	SGU1	4011	6836	1076		1076	5760
KS	Hutchinson Energy Center	1248	1, 2, 3, 4	18	1	0		0	1
KS	Jeffrey Energy Center	6068	1, 2, 3	55835	76956	65774		65774	11182
KS	Kaw	1294	1, 2, 3	1922	4	0		0	4
KS	La Cygne	1241	1, 2	33007	23188	23055		23055	133
KS	Lawrence Energy Center	1250	3, 4, 5	9346	3062	2538		2538	524
KS	McPherson 3	7515	1	0	114	0		0	114
KS	Murray Gill Energy Center	1242	1, 2, 3, 4	118	4	0		0	4
KS	Nearman Creek	6064	N1, CT4	6930	14482	7328		7328	7154
KS	Neosho Energy Center	1243	7	13	1	0		0	1
KS	Osawatomie Generating Station	7928	1	0	3	0		0	3
KS	Quindaro	1295	1, 2	4111	12634	4607		4607	8027
KS	Riverton	1239	12, 39, 40	2803	8057	6987		6987	1070
KS	Tecumseh Energy Center	1252	9, 10	6172	5303	4402		4402	901
KS	West Gardner Generating Station	7929	1, 2, 3, 4	0	12	0		0	12
KY	Big Sandy	1353	BSU1, BSU2	26148	48155	46751		46751	1404
KY	Bluegrass Generation Company, LLC	55164	GTG1, GTG2, GTG3	0	0	0		0	0
KY	Cane Run	1363	4, 5, 6	14402	16064	14879		14879	1185
KY	Coleman	1381	C1, C2, C3	15714	4583	2992		2992	1591
KY	D B Wilson	6823	W1	12465	10941	9499		9499	1442
KY	E W Brown	1355	1, 2, 3, 5, 6, 7, 8, 9, 10, 11	20127	50451	49824		49824	627
KY	East Bend	6018	2	18322	2575	2452		2452	123
KY	Elmer Smith	1374	1, 2	9018	3571	3123		3123	448
KY	Ghent	1356	1, 2, 3, 4	52666	47424	45228		45228	2196
KY	Green River	1357	4, 5	7923	32641	22060		22060	10581
KY	H L Spurlock	6041	1, 2, 3	26415	41344	36943		36943	4401
KY	Henderson I	1372	6	810	10020	185		185	9835
KY	HMP&L Station 2	1382	H1, H2	11694	11694	5035		5035	6659
KY	John S. Cooper	1384	1, 2	9818	22641	19821		19821	2820

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
KY	Marshall	55232	CT1, CT2, CT3, CT4, CT5, CT6, CT7, CT8	0	52	0		0	52
KY	Mill Creek	1364	1, 2, 3, 4	40828	129702	27896		27896	101806
KY	Paddy's Run	1366	13	0	5	0		0	5
KY	Paradise	1378	1, 2, 3	48638	62075	34651		34651	27424
KY	R D Green	6639	G1, G2	11672	4212	2705		2705	1507
KY	Riverside Generating Company	55198	GTG101, GTG201, GTG301, GTG401, GTG501	0	0	0		0	0
KY	Robert Reid	1383	R1	942	8257	6736		6736	1521
KY	Shawnee	1379	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	37929	41403	36305		36305	5098
KY	Smith Generating Facility	54	SCT1, SCT2, SCT3, SCT4, SCT5, SCT6, SCT7	0	1357	2		2	1355
KY	Trimble County	6071	1, 5, 6, 7, 8, 9, 10	9634	28578	1048		1048	27530
KY	Tyrone	1361	1, 2, 3, 4, 5	1713	4288	3483		3483	805
KY	William C. Dale	1385	1, 2, 3, 4	3831	9081	8215		8215	866
LA	A B Paterson	1407	3, 4	15	90	0		0	90
LA	Acadia Power Station	55173	CT1, CT2, CT3, CT4	0	4	3		3	1
LA	Arsenal Hill Power Plant	1416	5A	30	215	0		0	215
LA	Bayou Cove Peaking Power Plant	55433	CTG-1, CTG-2, CTG-3, CTG-4	0	4	0		0	4
LA	Big Cajun 1	1464	1B1, 1B2, CTG1, CTG2	54	56	0		0	56
LA	Big Cajun 2	6055	2B1, 2B2, 2B3	44165	39186	37228		37228	1958
LA	Calcasieu Plant	55165	GTG1, GTG2	0	0	0		0	0
LA	Carville Energy Center	55404	COG01, COG02	0	6	5		5	1
LA	D G Hunter	6558	3, 4	32	230	0		0	230
LA	Doc Bonin	1443	1, 2, 3	81	639	0		0	639
LA	Dolet Hills Power Station	51	1	20501	21646	11509		11509	10137
LA	Evangeline Power Station (Coughlin)	1396	6-1, 7-1, 7-2	174	1330	5		5	1325
LA	Hargis-Hebert Electric Generating Statio	56283	U-1, U-2	0	0	0		0	0
LA	Houma	1439	15, 16	24	192	0		0	192
LA	Lieberman Power Plant	1417	3, 4	158	984	7		7	977
LA	Little Gypsy	1402	1, 2, 3	1166	8957	24		24	8933
LA	Louisiana 1	1391	1A, 2A, 3A, 4A, 5A	120	388	80		80	308
LA	Louisiana 2	1392	10, 11, 12	0	6	0		0	6
LA	Michoud	1409	1, 2, 3	668	4006	223		223	3783

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
LA	Monroe	1448	11, 12	58	464	0		0	464
LA	Morgan City Electrical Gen Facility	1449	4	5	40	0		0	40
LA	Natchitoches	1450	10	0	1	0		0	1
LA	Ninemile Point	1403	1, 2, 3, 4, 5	1891	14545	20		20	14525
LA	Perryville Power Station	55620	1-1, 1-2, 2-1	0	34	6		6	28
LA	Plaquemine Cogen Facility	55419	500, 600, 700, 800	0	20	8		8	12
LA	Quachita Power, LLC	55467	CTGEN1, CTGEN2, CTGEN3	0	5	3		3	2
LA	R S Cogen	55117	RS-5, RS-6	0	14	8		8	6
LA	R S Nelson	1393	3, 4, 6	19794	39400	14553		14553	24847
LA	Rodemacher Power Station (6190)	6190	1, 2	22158	50740	12904		12904	37836
LA	Ruston	1458	2, 3	9	37	0		0	37
LA	Sterlington	1404	10, 7C, 7AB	246	1926	0		0	1926
LA	T J Labbe Electric Generating Station	56108	U-1, U-2	0	0	0		0	0
LA	Taft Cogeneration Facility	55089	CT1, CT2, CT3	0	289	3		3	286
LA	Teche Power Station	1400	2, 3	473	1396	3		3	1393
LA	Waterford 1 & 2	8056	1, 2	8089	32850	1404		1404	31446
LA	Willow Glen	1394	1, 2, 3, 4, 5	967	4110	56		56	4054
MA	ANP Bellingham Energy Project	55211	1, 2	0	6	6		6	0
MA	ANP Blackstone Energy Company	55212	1, 2	0	6	6		6	0
MA	Bellingham	10307	1, 2	0	2	1		1	1
MA	Berkshire Power	55041	1	0	2	2		2	0
MA	Brayton Point	1619	1, 2, 3, 4	48156	32427	30781		30781	1646
MA	Canal Station	1599	1, 2	31234	6955	6675		6675	280
MA	Cleary Flood	1682	8, 9	2822	822	47		47	775
MA	Dartmouth Power	52026	1	0	1	1		1	0
MA	Dighton	55026	1	0	23	1		1	22
MA	Fore River Station	55317	11, 12	0	19	8		8	11
MA	Indeck-Pepperell	10522	CC1	0	14	0		0	14
MA	Kendall Square	1595	1, 2, 3, 4	828	39	9		9	30
MA	Lowell Cogeneration Company	10802	001	0	4	0		0	4
MA	Masspower	10726	1, 2	0	4	2		2	2
MA	Millennium Power Partners	55079	1	0	9	4		4	5
MA	Montgomery L'Energia Power Partners LP	54586	1	0	6	0		0	6
MA	Mount Tom	1606	1	5611	7739	4858		4858	2881
MA	Mystic	1588	4, 5, 6, 7, 81, 82, 93, 94	26019	15483	1941		1941	13542

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
MA	New Boston	1589	1	12482	50	0		0	50
MA	Salem Harbor	1626	1, 2, 3, 4	24779	7375	6444		6444	931
MA	Somerset	1613	8	6750	4699	2710		2710	1989
MA	West Springfield	1642	3, CTG1, CTG2	3746	1968	366		366	1602
MD	Brandon Shores	602	1, 2	26305	42417	42041		42041	376
MD	C P Crane	1552	1, 2	8392	30937	30631		30631	306
MD	Herbert A Wagner	1554	1, 2, 3, 4	12491	21192	20983		20983	209
MD	Mirant Chalk Point	1571	1, 2, 3, 4, **GT3, **GT4, **GT5, **GT6	37726	47329	46374		46374	955
MD	Mirant Dickerson	1572	1, 2, 3, GT2, GT3	19358	34517	33843		33843	674
MD	Mirant Morgantown	1573	1, 2	33121	94943	93069		93069	1874
MD	Panda Brandywine	54832	1, 2	0	6	5		5	1
MD	Perryman	1556	**51	1131	4	3		3	1
MD	R. Paul Smith Power Station	1570	9, 11	2948	5946	5536		5536	410
MD	Riverside	1559	4	1463	0	0		0	0
MD	Rock Springs Generating Facility	7835	1, 2, 3, 4	0	20	0		0	20
MD	Vienna	1564	8	3645	415	395		395	20
ME	Androscoggin Energy	55031	CT01, CT02, CT03	0	4	3		3	1
ME	Bucksport Clean Energy	50243	GEN4	0	58	4		4	54
ME	Maine Independence Station	55068	1, 2	0	34	4		4	30
ME	Mason Steam	1496	3, 4, 5	4	23	0		0	23
ME	Rumford Power	55100	1	0	17	1		1	16
ME	Westbrook Energy Center	55294	1, 2	0	6	5		5	1
ME	William F Wyman	1507	1, 2, 3, 4	11540	3117	1654		1654	1463
MI	48th Street Peaking Station	7258	9, **7, **8	596	1635	0		0	1635
MI	B C Cobb	1695	1, 2, 3, 4, 5	12862	11132	10914		10914	218
MI	Belle River	6034	1, 2, CTG121, CTG122, CTG131	37274	67077	23193		23193	43884
MI	Connors Creek	1726	15, 16, 17, 18	15951	20727	0		0	20727
MI	Dan E Karn	1702	1, 2, 3, 4	18346	17867	17517		17517	350
MI	Dearborn Industrial Generation	55088	GTP1, GT2100, GT3100	0	3	0		0	3
MI	Delray	1728	CTG111, CTG121	40	256	0		0	256
MI	DTE East China	55718	1, 2, 3, 4	0	0	0		0	0
MI	Eckert Station	1831	1, 2, 3, 4, 5, 6	11211	7466	5944		5944	1522
MI	Endicott Generating	4259	1	1810	2880	1037		1037	1843
MI	Erickson	1832	1	6646	3963	3431		3431	532

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MI	Greenwood	6035	1, CTG111, CTG112, CTG121	539	697	637		637	60
MI	Harbor Beach	1731	1	3520	781	556		556	225
MI	J B Sims	1825	3	1484	1238	740		740	498
MI	J C Weadock	1720	7, 8	9436	9123	8944		8944	179
MI	J H Campbell	1710	1, 2, 3	45264	57175	29809		29809	27366
MI	J R Whiting	1723	1, 2, 3	11374	10366	10163		10163	203
MI	Jackson MI Facility	55270	7EA, LM1, LM2, LM3, LM4, LM5, LM6	0	5	1		1	4
MI	James De Young	1830	5	1048	2040	785		785	1255
MI	Kalamazoo River Generating Station	55101	1	0	1	0		0	1
MI	Kalkaska Ct Project #1	7984	1A, 1B	0	0	0		0	0
MI	Livingston Generating Station	55102	1, 2, 3, 4	0	1	0		0	1
MI	Marysville	1732	9, 10, 11, 12	5274	3503	0		0	3503
MI	Michigan Power Limited Partnership	54915	1	0	12	2		2	10
MI	Mistersky	1822	5, 6, 7	1179	9411	0		0	9411
MI	Monroe	1733	1, 2, 3, 4	97171	126393	126393		126393	0
MI	New Covert Generating Project	55297	001, 002, 003	0	5	3		3	2
MI	Presque Isle	1769	3, 4, 5, 6, 7, 8, 9	16850	18541	14235		14235	4306
MI	Renaissance Power	55402	CT1, CT2, CT3, CT4	0	4	0		0	4
MI	River Rouge	1740	1, 2, 3	15505	18170	14597		14597	3573
MI	Shiras	1843	3	500	2229	94		94	2135
MI	St. Clair	1743	1, 2, 3, 4, 6, 7	34931	38579	38576		38576	3
MI	Sumpter Plant	7972	1, 2, 3, 4	0	20	0		0	20
MI	Trenton Channel	1745	16, 17, 18, 19, 9A	22827	28579	28579		28579	0
MI	Wyandotte	1866	5, 7, 8	1913	4351	1861		1861	2490
MI	Zeeland Generating Station	55087	CC1, CC2, CC3, CC4	0	8	2		2	6
MN	Allen S King	1915	1	15628	19761	2549		2549	17212
MN	Black Dog	1904	3, 4, 5	11928	58923	3460		3460	55463
MN	Blue Lake Generating Plant	8027	7, 8	0	20	0		0	20
MN	Boswell Energy Center	1893	1, 2, 3, 4	23817	27640	21579		21579	6061
MN	Cambridge Station	2038	2	0	0	0		0	0
MN	Cascade Creek	6058	CT2, CT3	0	104	0		0	104
MN	Cottage Grove Cogeneration	55010	01	0	5	2		2	3
MN	Faribault Energy Park	56164	EU006	0	3	2		2	1
MN	Fibrominn Biomass Power Plant	55867	BLR-1	0	154	154		154	0
MN	Fox Lake	1888	3	2069	359	323		323	36

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	MN Hibbard Energy Center	1897	3, 4	2081	6663	354		354	6309
	MN High Bridge	1912	3, 4, 5, 6	7622	43482	2096		2096	41386
	MN Hoot Lake	1943	2, 3	3220	5743	3574		3574	2169
	MN Hutchinson - Plant 2	6358	1	0	8	0		0	8
	MN Lakefield Junction Generating	7925	CT01, CT02, CT03, CT04, CT05, CT06	0	59	0		0	59
	MN Laskin Energy Center	1891	1, 2	3341	3341	1339		1339	2002
	MN Mankato Energy Center	56104	CT-2	0	11	10		10	1
	MN Minnesota River Station	7844	U001	0	0	0		0	0
	MN Minnesota Valley	1918	4	938	3277	0		0	3277
	MN Northeast Station	1961	NEPP	1052	4203	1158		1158	3045
	MN Pleasant Valley Station	7843	11, 12, 13	0	21	4		4	17
	MN Riverside (1927)	1927	6, 7, 8	9483	14269	12972		12972	1297
	MN Sherburne County	6090	1, 2, 3	39231	81668	25494		25494	56174
	MN Silver Lake	2008	4	3133	4986	1837		1837	3149
	MN Solway Plant	7947	1	0	9	0		0	9
	MN Taconite Harbor Energy Center	10075	1, 2, 3	0	5596	5062		5062	534
	MO Asbury	2076	1	6975	32330	9871		9871	22459
	MO Audrain Power Plant	55234	CT1, CT2, CT3, CT4, CT5, CT6, CT7, CT8	0	8	0		0	8
	MO Blue Valley	2132	3	4670	4966	3080		3080	1886
	MO Chamois Power Plant	2169	2	5457	1115	1110		1110	5
	MO Columbia	2123	6, 7, 8	4659	4659	1116		1116	3543
	MO Columbia Energy Center (MO)	55447	CT01, CT02, CT03, CT04	0	20	0		0	20
	MO Dogwood Energy Facility	55178	CT-1, CT-2	0	10	2		2	8
	MO Empire District Elec Co Energy Ctr	6223	3A, 3B, 4A, 4B	557	36	0		0	36
	MO Essex Power Plant	7749	1	0	10	0		0	10
	MO Hawthorn	2079	6, 7, 8, 9, 5A	12773	1988	1923		1923	65
	MO Holden Power Plant	7848	1, 2, 3	0	98	0		0	98
	MO Iatan	6065	1	16208	15084	14290		14290	794
	MO James River	2161	3, 4, 5, **GT2	12039	11987	3604		3604	8383
	MO Labadie	2103	1, 2, 3, 4	66987	60345	58325		58325	2020
	MO Lake Road	2098	6	1239	4333	3003		3003	1330
	MO McCartney Generating Station	7903	MGS1A, MGS1B, MGS2A, MGS2B	0	40	0		0	40
	MO Meramec	2104	1, 2, 3, 4	18756	24307	22767		22767	1540
	MO Montrose	2080	1, 2, 3	11073	14207	14136		14136	71

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MO	New Madrid Power Plant	2167	1, 2	26187	14302	14292		14292	10
MO	Nodaway Power Plant	7754	1, 2	0	20	0		0	20
MO	Peno Creek Energy Center	7964	CT1A, CT1B, CT2A, CT2B, CT3A, CT3B, CT4A, CT4B	0	40	0		0	40
MO	Rush Island	6155	1, 2	30612	23913	22462		22462	1451
MO	Sibley	2094	1, 2, 3	8791	20884	11796		11796	9088
MO	Sikeston	6768	1	6791	8230	7002		7002	1228
MO	Sioux	2107	1, 2	20315	49145	46988		46988	2157
MO	South Harper Peaking Facility	56151	1, 2, 3	0	3	0		0	3
MO	Southwest	6195	1	4184	4236	4229		4229	7
MO	St. Francis Power Plant	7604	1, 2	0	46	2		2	44
MO	State Line (MO)	7296	1, 2-1, 2-2	0	230	5		5	225
MO	Thomas Hill Energy Center	2168	MB1, MB2, MB3	30110	15214	15199		15199	15
MS	Attala Generating Plant	55220	A01, A02	0	20	4		4	16
MS	Batesville Generation Facility	55063	1, 2, 3	0	13	5		5	8
MS	Baxter Wilson	2050	1, 2	3924	7480	478		478	7002
MS	BTEC New Albany LLC	13213	AA-001, AA-002, AA-003, AA-004, AA-005, AA-006	0	8	0		0	8
MS	BTEC Southaven LLC	55219	S01, S02, S03, S04, S05, S06, S07, S08	0	8	0		0	8
MS	Caledonia	55197	AA-001, AA-002, AA-003	0	50	5		5	45
MS	Chevron Cogenerating Station	2047	5	0	20	9		9	11
MS	Choctaw Gas Generation, LLC	55694	AA-001, AA-002	0	6	2		2	4
MS	Crossroads Energy Center (CPU)	55395	CT01, CT02, CT03, CT04	0	8	0		0	8
MS	Daniel Electric Generating Plant	6073	1, 2, 3A, 3B, 4A, 4B	25505	33764	32135		32135	1629
MS	Delta	2051	1, 2	76	183	0		0	183
MS	Gerald Andrus	8054	1	3282	4529	1736		1736	2793
MS	Kemper County	7960	KCT1, KCT2, KCT3, KCT4	0	190	0		0	190
MS	KGen Hinds LLC	55218	H01, H02	0	4	2		2	2
MS	Magnolia Facility	55451	CTG-1, CTG-2, CTG-3	0	18	6		6	12
MS	Moselle Generating Plant	2070	1, 2, 3, 5, **4	1035	1146	1		1	1145
MS	Natchez	2052	1	2	16	0		0	16
MS	R D Morrow Senior Generating Plant	6061	1, 2	10054	13127	10429		10429	2698



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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
MS	Red Hills Generation Facility	55076	AA001, AA002	0	2999	1649		1649	1350
MS	Reliant Energy Choctaw County Gen	55706	CTG1, CTG2, CTG3	0	15	0		0	15
MS	Rex Brown	2053	3, 4, 1A, 1B	212	846	1		1	845
MS	Silver Creek Generating Plant	7988	1, 2, 3	0	30	0		0	30
MS	Southaven Power, LLC	55269	AA-001, AA-002, AA-003	0	7	5		5	2
MS	Sweatt Electric Generating Plant	2048	1, 2	164	189	0		0	189
MS	Sylvarena Generating Plant	7989	1, 2, 3	0	30	0		0	30
MS	Warren Peaking Power Facility	55303	AA-001, AA-002, AA-003, AA-004	0	0	0		0	0
MS	Watson Electric Generating Plant	2049	1, 2, 3, 4, 5	23565	42818	23329		23329	19489
MT	Colstrip	6076	1, 2, 3, 4	23051	17157	16992		16992	165
MT	Glendive Generating Station	2176	GT-2	0	0	0		0	0
MT	Hardin	55749	U1	0	504	385		385	119
MT	J E Corette	2187	2	5062	8028	3476		3476	4552
MT	Lewis & Clark	6089	B1	1444	4210	1175		1175	3035
NC	Asheville	2706	1, 2, 3, 4	11883	11960	528		528	11432
NC	Belews Creek	8042	1, 2	63471	93131	86388		86388	6743
NC	Buck	2720	5, 6, 7, 8, 9	7871	10774	10261		10261	513
NC	Cape Fear	2708	5, 6	8493	14500	13182		13182	1318
NC	Cliffside	2721	1, 2, 3, 4, 5	18406	29728	27565		27565	2163
NC	Craven County Wood Energy	10525	ES5A	0	130	125		125	5
NC	Dan River	2723	1, 2, 3	7480	8081	7672		7672	409
NC	Elizabethtown Power	10380	UNIT1, UNIT2	0	148	141		141	7
NC	G G Allen	2718	1, 2, 3, 4, 5	23076	54495	50551		50551	3944
NC	H F Lee Steam Electric Plant	2709	1, 2, 3, 10, 11, 12, 13	9085	17054	15503		15503	1551
NC	L V Sutton	2713	1, 2, 3	12619	22432	20392		20392	2040
NC	Lincoln	7277	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16	0	211	0		0	211
NC	Lumberton Power	10382	UNIT1, UNIT2	0	169	164		164	5
NC	Marshall	2727	1, 2, 3, 4	49030	36022	24755		24755	11267
NC	Mayo	6250	1A, 1B	25570	42155	22811		22811	19344
NC	NCEMC Anson Plant	56249	ES1-A, ES1-B, ES2-A, ES2-B, ES3-A, ES3-B, ES4-A, ES4-B, ES5-A, ES5-B, ES6-A, ES6-B	0	30	0		0	30
NC	Plant Rowan County	7826	1, 2, 3, 4, 5	0	17	3		3	14

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	NC Richmond County Plant	7805	1, 2, 3, 4, 6, 7, 8	0	93	8		8	85
	NC Riverbend	2732	7, 8, 9, 10	9158	16702	15906		15906	796
	NC Rockingham County Combustion Turbine	55116	CT1, CT2, CT3, CT4, CT5	0	52	4		4	48
	NC Rosemary Power Station	50555	1, 2	0	12	2		2	10
	NC Roxboro	2712	1, 2, 3A, 3B, 4A, 4B	69736	125889	65247		65247	60642
	NC W H Weatherspoon	2716	1, 2, 3	3873	10566	9605		9605	961
	ND Antelope Valley	6469	B1, B2	23078	28876	13672		13672	15204
	ND Coal Creek	6030	1, 2	44497	28406	28306		28306	100
	ND Coyote	8222	B1	16182	26954	12505		12505	14449
	ND Leland Olds	2817	1, 2	35506	58586	48012		48012	10574
	ND Milton R Young	2823	B1, B2	28836	30612	28203		28203	2409
	ND R M Heskett	2790	B2	3202	9033	2977		2977	6056
	ND Stanton	2824	1, 10	8781	2688	2588		2588	100
	NE Beatrice	8000	1, 2	0	20	2		2	18
	NE C W Burdick	2241	B-3, GT-2, GT-3	0	27	0		0	27
	NE Canaday	2226	1	627	1802	82		82	1720
	NE Cass County Station	55972	CT1, CT2	0	0	0		0	0
	NE Gerald Gentleman Station	6077	1, 2	28377	38634	28816		28816	9818
	NE Gerald Whelan Energy Center	60	1	2335	3103	2207		2207	896
	NE Lon D Wright Power Plant	2240	8, 50T	2044	3752	1708		1708	2044
	NE Nebraska City Station	6096	1	13194	14254	14173		14173	81
	NE North Omaha Station	2291	1, 2, 3, 4, 5	17379	28052	14749		14749	13303
	NE Platte	59	1	2927	6737	2641		2641	4096
	NE Rokeby	6373	2, 3	0	10	0		0	10
	NE Salt Valley Generating Station	7887	SVGS2, SVGS3, SVGS4	0	15	0		0	15
	NE Sarpy County Station	2292	CT3, CT4A, CT4B, CT5A, CT5B	0	7	1		1	6
	NE Sheldon	2277	1, 2	4448	8115	4627		4627	3488
	NH Granite Ridge Energy	55170	0001, 0002	0	26	6		6	20
	NH Merrimack	2364	1, 2	13530	37164	36484		36484	680
	NH Newington	8002	1	11663	2336	2269		2269	67
	NH Newington Power Facility	55661	1, 2	0	74	14		14	60
	NH Schiller	2367	4, 5, 6	4614	3861	3747		3747	114
	NJ AES Red Oak	55239	1, 2, 3	0	10	6		6	4
	NJ B L England	2378	1, 2, 3	11162	12754	12733		12733	21

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	NJ Bayonne Plant Holding, LLC	50497	001001, 002001, 004001	0	6	0		0	6
	NJ Bergen	2398	1101, 1201, 1301, 1401, 2101, 2201	4022	27	16		16	11
	NJ Burlington Generating Station	2399	121, 122, 123, 124	561	371	14		14	357
	NJ Calpine Newark Cogeneration	50797	001001	0	0	0		0	0
	NJ Camden Plant Holding, LLC	10751	002001	0	4	1		1	3
	NJ Deepwater	2384	1, 8	5856	2573	2554		2554	19
	NJ EFS Parlin Holdings, LLC	50799	001001, 003001	0	0	0		0	0
	NJ Gilbert Generating Station	2393	9, 04, 05, 06, 07	3191	5	1		1	4
	NJ Hudson Generating Station	2403	1, 2	17169	17174	4441		4441	12733
	NJ Kearny Generating Station	2404	121, 122, 123, 124	298	306	0		0	306
	NJ Linden Cogeneration Facility	50006	004001	0	8	4		4	4
	NJ Linden Generating Station	2406	5, 6, 7, 8, 1101, 1201, 2101, 2201	3577	3586	11		11	3575
	NJ Mercer Generating Station	2408	1, 2	15122	15133	14333		14333	800
	NJ Newark Bay Cogen	50385	1001, 2001	0	8	0		0	8
	NJ North Jersey Energy Associates	10308	1001, 1002	0	3	2		2	1
	NJ Ocean Peaking Power, LP	55938	OPP3, OPP4	0	10	0		0	10
	NJ Pedricktown Cogeneration Plant	10099	001001	0	2	0		0	2
	NJ Sewaren Generating Station	2411	1, 2, 3, 4	1285	295	65		65	230
	NJ Sherman Avenue	7288	1	0	9	2		2	7
	NJ Sunoco Power Generation, LLC	50561	0001, 0002	0	2	1		1	1
	NM Afton Generating Station	55210	0001	0	0	0		0	0
	NM Bluffview Power Plant	55977	CTG-1	0	1	1		1	0
	NM Cunningham	2454	121B, 122B, 123T, 124T	311	1672	5		5	1667
	NM Four Corners Steam Elec Station	2442	1, 2, 3, 4, 5	37442	28704	10240		10240	18464
	NM Lordsburg Generating Station	7967	1, 2	0	0	0		0	0
	NM Luna Energy Facility	55343	CTG1, CTG2	0	6	6		6	0
	NM Maddox	2446	051B	255	919	2		2	917
	NM Milagro Cogeneration and Gas Plant	54814	1, 2	0	2	2		2	0
	NM Person Generating Project	55039	GT-1	0	48	0		0	48
	NM Prewitt Escalante Generating Station	87	1	1874	1180	1124		1124	56
	NM Pyramid Generating Station	7975	1, 2, 3, 4	0	11	1		1	10
	NM Reeves Generating Station	2450	1, 2, 3	115	111	0		0	111
	NM Rio Grande	2444	6, 7, 8	84	652	2		2	650
	NM San Juan	2451	1, 2, 3, 4	40788	47752	15285		15285	32467

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
NV	Apex Generating Station	55514	CTG01, CTG02	0	6	4		4	2
NV	Chuck Lenzie Generating Station	55322	CTG-1, CTG-2, CTG-3, CTG-4	0	22	16		16	6
NV	El Dorado Energy	55077	EDE1, EDE2	0	19	6		6	13
NV	Fort Churchill	2330	1, 2	948	5634	6		6	5628
NV	Harry Allen	7082	**3, **4	1184	23	0		0	23
NV	Las Vegas Cogeneration II, LLC	10761	1, 2, 3, 4, 5	0	26	1		1	25
NV	Mohave	2341	1, 2	53216	0	0		0	0
NV	North Valmy	8224	1, 2	11222	21385	7342		7342	14043
NV	REI Bighorn	55687	BHG1, BHG2	0	8	4		4	4
NV	Reid Gardner	2324	1, 2, 3, 4	9314	21064	1154		1154	19910
NV	Silverhawk	55841	A01, A03	0	18	6		6	12
NV	Sunrise	2326	1	50	375	0		0	375
NV	Tracy	2336	1, 2, 3, 4, 5, 6	375	2110	9		9	2101
NV	Tri-Center Naniwa Energy	55494	CT1, CT2, CT3, CT4, CT5, CT6	0	31	0		0	31
NY	23rd and 3rd	7910	2301, 2302	0	0	0		0	0
NY	74th Street	2504	120, 121, 122	1343	1343	606		606	737
NY	AES Cayuga, LLC	2535	1, 2	10143	3673	3660		3660	13
NY	AES Greenidge	2527	4, 5, 6	5147	4489	3083		3083	1406
NY	AES Hickling	2529	1, 2, 3, 4	3278	0	0		0	0
NY	AES Jennison	2531	1, 2, 3, 4	2774	0	0		0	0
NY	AES Somerset (Kintigh)	6082	1	13889	4264	4261		4261	3
NY	AES Westover (Goudey)	2526	11, 12, 13	4860	8022	7931		7931	91
NY	AG - Energy	10803	1, 2	0	1	0		0	1
NY	Allegany Station No. 133	10619	00001	0	3	0		0	3
NY	Arthur Kill	2490	20, 30	3845	501	5		5	496
NY	Astoria Energy	55375	CT1, CT2	0	10	10		10	0
NY	Astoria Generating Station	8906	20, 30, 40, 50	10870	4249	940		940	3309
NY	Athens Generating Company	55405	1, 2, 3	0	15	11		11	4
NY	Batavia Energy	54593	1	0	0	0		0	0
NY	Bayswater Peaking Facility	55699	1, 2	0	9	5		5	4
NY	Bethlehem Energy Center (Albany)	2539	10001, 10002, 10003	6637	27	3		3	24
NY	Bethpage Energy Center	50292	GT1, GT2, GT3, GT4	0	2	1		1	1
NY	Binghamton Cogen Plant	55600	1	0	0	0		0	0
NY	Bowline Generating Station	2625	1, 2	8481	849	534		534	315
NY	Brentwood	7912	BW01	0	0	0		0	0

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	NY Brooklyn Navy Yard Cogeneration	54914	1, 2	0	41	22		22	19
	NY Carr Street Generating Station	50978	A, B	0	4	1		1	3
	NY Carthage Energy	10620	1	0	3	0		0	3
	NY Charles Poletti	2491	001	6438	763	612		612	151
	NY Dunkirk	2554	1, 2, 3, 4	17270	24212	9930		9930	14282
	NY Dynegy Danskammer	2480	1, 2, 3, 4	11027	13027	12172		12172	855
	NY Dynegy Roseton	8006	1, 2	30496	24046	4654		4654	19392
	NY E F Barrett	2511	10, 20	4709	960	258		258	702
	NY East River	2493	1, 2, 60, 70	3859	2463	230		230	2233
	NY EPCOR Power (Castleton) LLC	10190	1	0	4	3		3	1
	NY Equus Freeport Power Generating Station	56032	0001	0	2	1		1	1
	NY Far Rockaway	2513	40	469	509	1		1	508
	NY Freeport Power Plant No. 2	2679	5	0	0	0		0	0
	NY Fulton Cogeneration Associates	54138	01GTDB	0	1	0		0	1
	NY Glenwood	2514	40, 50	1842	197	0		0	197
	NY Glenwood Landing Energy Center	7869	UGT012, UGT013	0	4	0		0	4
	NY Harlem River Yard	7914	HR01, HR02	0	0	0		0	0
	NY Hawkeye Energy Greenport, LLC	55969	U-01	0	19	16		16	3
	NY Hell Gate	7913	HG01, HG02	0	0	0		0	0
	NY Huntley Power	2549	65, 66, 67, 68	21899	31182	10613		10613	20569
	NY Indeck-Corinth Energy Center	50458	1	0	4	1		1	3
	NY Indeck-Olean Energy Center	54076	1	0	51	1		1	50
	NY Indeck-Oswego Energy Center	50450	1	0	67	0		0	67
	NY Indeck-Silver Springs Energy Center	50449	1	0	13	0		0	13
	NY Indeck-Yerkes Energy Center	50451	1	0	27	0		0	27
	NY Independence	54547	1, 2, 3, 4	0	7	6		6	1
	NY Lovett Generating Station	2629	3, 4, 5	9782	7244	6984		6984	260
	NY Massena Energy Facility	54592	001	0	0	0		0	0
	NY Niagara Generation, LLC	50202	1	0	595	544		544	51
	NY North 1st	7915	NO1	0	0	0		0	0
	NY Northport	2516	1, 2, 3, 4	35369	13229	9923		9923	3306
	NY Onondaga Cogeneration	50855	1, 2	0	6	0		0	6
	NY Oswego Harbor Power	2594	3, 5, 6	22538	1513	1474		1474	39
	NY Pinelawn Power	56188	00001	0	3	2		2	1
	NY Poletti 500 MW CC	56196	CTG7A, CTG7B	0	11	9		9	2
	NY Port Jefferson Energy Center	2517	3, 4, UGT002, UGT003	10551	2540	1928		1928	612
	NY Pouch Terminal	8053	PT01	0	2	1		1	1

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
NY	PPL Edgewood Energy	55786	CT01, CT02	0	1	0		0	1
NY	PPL Shoreham Energy	55787	CT01, CT02	0	9	9		9	0
NY	Project Orange Facility	54425	001, 002	0	1	1		1	0
NY	Ravenswood Generating Station	2500	10, 20, 30, UCC001	10835	2353	1495		1495	858
NY	Rensselaer Cogen	54034	1GTDDBS	0	4	0		0	4
NY	Richard M Flynn (Holtville)	7314	001	0	58	54		54	4
NY	Rochester 7 - Russell Station	2642	1, 2, 3, 4	6518	22804	21719		21719	1085
NY	S A Carlson	2682	9, 10, 11, 12, 20	3037	3812	3498		3498	314
NY	Sterling Power Plant	50744	00001	0	0	0		0	0
NY	Vernon Boulevard	7909	VB01, VB02	0	0	0		0	0
NY	WPS Syracuse Generation, LLC	10621	1	0	3	0		0	3
OH	AMP-Ohio Gas Turbines Bowling Green	55262	CT1	0	2	0		0	2
OH	AMP-Ohio Gas Turbines Galion	55263	CT1	0	2	0		0	2
OH	AMP-Ohio Gas Turbines Napoleon	55264	CT1	0	2	0		0	2
OH	Ashtabula	2835	7	15232	6705	6655		6655	50
OH	Avon Lake Power Plant	2836	10, 12	25045	38873	38773		38773	100
OH	Bay Shore	2878	1, 2, 3, 4	20529	13257	13207		13207	50
OH	Cardinal	2828	1, 2, 3	49319	85688	81288		81288	4400
OH	Conesville	2840	3, 4, 5, 6	45744	140926	114053		114053	26873
OH	Darby Electric Generating Station	55247	CT1, CT2, CT3, CT4, CT5, CT6	0	51	0		0	51
OH	Eastlake	2837	1, 2, 3, 4, 5	34273	61504	61454		61454	50
OH	Frank M Tait Station	2847	1, 2, 3	0	12	0		0	12
OH	Gen J M Gavin	8102	1, 2	68837	30623	29164		29164	1459
OH	Greenville Electric Gen Station	55228	G1CT1, G1CT2, G2CT1, G2CT2, G3CT1, G3CT2, G4CT1, G4CT2	0	8	0		0	8
OH	Hamilton Municipal Power Plant	2917	9	1665	2927	1565		1565	1362
OH	Hanging Rock Energy Facility	55736	CTG1, CTG2, CTG3, CTG4	0	7	4		4	3
OH	J M Stuart	2850	1, 2, 3, 4	76200	108394	107319		107319	1075
OH	Killen Station	6031	2	16928	14688	8601		8601	6087
OH	Kyger Creek	2876	1, 2, 3, 4, 5	39155	62435	57435		57435	5000
OH	Lake Shore	2838	18	6336	5182	5132		5132	50
OH	Madison Generating Station	55110	1, 2, 3, 4, 5, 6, 7, 8	0	14	0		0	14
OH	Miami Fort Generating Station	2832	6, 7, 8, 5-1, 5-2	40036	48689	46939		46939	1750
OH	Muskingum River	2872	1, 2, 3, 4, 5	41070	136438	132459		132459	3979

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
OH	Niles	2861	1, 2	6919	15192	15112		15112	80
OH	O H Hutchings	2848	H-1, H-2, H-3, H-4, H-5, H-6	9923	4775	4721		4721	54
OH	Omega JV2 Bowling Green	7783	P001	0	1	0		0	1
OH	Omega JV2 Hamilton	7782	P001	0	1	0		0	1
OH	Picway	2843	9	2128	7641	7418		7418	223
OH	R E Burger	2864	5, 6, 7, 8	17621	22557	22509		22509	48
OH	Richard Gorsuch	7253	1, 2, 3, 4	19500	30283	27358		27358	2925
OH	Richland Peaking Station	2880	CTG4, CTG5, CTG6	0	15	0		0	15
OH	Robert P Mone	7872	1, 2, 3	0	4	0		0	4
OH	Rolling Hills Generating LLC	55401	CT-1, CT-2, CT-3, CT-4, CT-5	0	0	0		0	0
OH	Tait Electric Generating Station	55248	CT4, CT5, CT6, CT7	0	0	0		0	0
OH	Troy Energy, LLC	55348	1, 2, 3, 4	0	2	2		2	0
OH	W H Sammis	2866	1, 2, 3, 4, 5, 6, 7	72492	101840	101790		101790	50
OH	W H Zimmer Generating Station	6019	1	16154	17280	16776		16776	504
OH	Walter C Beckjord Generating Station	2830	1, 2, 3, 4, 5, 6	23268	61352	54909		54909	6443
OH	Washington Energy Facility	55397	CT1, CT2	0	5	2		2	3
OH	Waterford Plant	55503	1, 2, 3	0	7	2		2	5
OH	West Lorain	2869	2, 3, 4, 5, 6	0	25	2		2	23
OH	Woodsdale	7158	**GT1, **GT2, **GT3, **GT4, **GT5, **GT6	2056	12	0		0	12
OK	Anadarko	3006	3, 7, 8	0	13	0		0	13
OK	Chouteau Power Plant	7757	1, 2	0	34	4		4	30
OK	Comanche (8059)	8059	7251, 7252	335	915	3		3	912
OK	Grand River Dam Authority	165	1, 2	23038	38487	17629		17629	20858
OK	Green Country Energy, LLC	55146	CTGEN1, CTGEN2, CTGEN3	0	12	6		6	6
OK	Horseshoe Lake	2951	6, 7, 8, 9, 10	717	5648	47		47	5601
OK	Hugo	6772	1	11877	20129	10151		10151	9978
OK	McClain Energy Facility	55457	CT1, CT2	0	72	8		8	64
OK	Mooreland	3008	1, 2, 3	51	388	1		1	387
OK	Muskogee	2952	3, 4, 5, 6	32154	52496	23173		23173	29323
OK	Mustang	2953	1, 2, 3, 4	222	1894	3		3	1891
OK	Northeastern	2963	3302, 3313, 3314, 3301A, 3301B	36394	46425	30362		30362	16063
OK	Oneta Energy Center	55225	CTG-1, CTG-2, CTG-3, CTG-4	0	5	4		4	1

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
OK	Ponca	762	2, 3, 4	0	0	0		0	0
OK	Redbud Power Plant	55463	CT-01, CT-02, CT-03, CT-04	0	14	8		8	6
OK	Riverside (4940)	4940	1501, 1502	804	4727	12		12	4715
OK	Seminole (2956)	2956	1, 2, 3	1359	10686	862		862	9824
OK	Sooner	6095	1, 2	20450	34723	17822		17822	16901
OK	Southwestern	2964	8002, 8003, 801N, 801S	182	608	2		2	606
OK	Spring Creek Power Plant	55651	CT-01, CT-02, CT-03, CT-04	0	1	0		0	1
OK	Tenaska Kiamichi Generating Station	55501	CTGDB1, CTGDB2, CTGDB3, CTGDB4	0	39	12		12	27
OK	Tulsa	2965	1402, 1403, 1404	160	208	2		2	206
OR	Boardman	6106	1SG	13377	14063	14037		14037	26
OR	Boardman Power Holdings LLC	55683	1	0	0	0		0	0
OR	Coyote Springs	7350	CTG1, CTG2	0	6	6		6	0
OR	Hermiston	54761	1, 2	0	12	8		8	4
OR	Hermiston Power Plant	55328	CTG-1, CTG-2	0	8	6		6	2
OR	Klamath Cogeneration Project	55103	CT1, CT2	0	7	5		5	2
OR	Klamath Energy LLC	55544	GT1, GT2, GT3, GT4	0	8	0		0	8
OR	Port Westward	56227	PWEU1	0	4	4		4	0
PA	AES Ironwood	55337	0001, 0002	0	8	6		6	2
PA	Allegheny Energy Hunlock Unit 4	56397	4	0	20	0		0	20
PA	Allegheny Energy Unit 1 and Unit 2	55196	1, 2	0	20	0		0	20
PA	Allegheny Energy Unit 8 and Unit 9	55377	8, 9	0	20	0		0	20
PA	Allegheny Energy Units 3, 4 & 5	55710	3, 4	0	22	2		2	20
PA	Armstrong Energy Ltd Part	55347	1, 2, 3, 4	0	11	7		7	4
PA	Armstrong Power Station	3178	1, 2	12869	32052	31484		31484	568
PA	Bethlehem Power Plant	55690	1, 2, 3, 5, 6, 7	0	23	17		17	6
PA	Bruce Mansfield	6094	1, 2, 3	41259	20597	20547		20547	50
PA	Brunner Island	3140	1, 2, 3	48595	106449	106148		106148	301
PA	Brunot Island Power Station	3096	3, 2A, 2B	0	31	0		0	31
PA	Chambersburg Units 12 and 13	55654	12, 13	0	20	0		0	20
PA	Cheswick	8226	1	16891	34189	34089		34089	100
PA	Conemaugh	3118	1, 2	54690	7779	6784		6784	995
PA	Cromby	3159	1, 2	4313	4053	3446		3446	607
PA	Eddystone Generating Station	3161	1, 2, 3, 4	9756	8130	6864		6864	1266
PA	Elrama	3098	1, 2, 3, 4	7414	4427	4267		4267	160



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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	PA Fairless Energy, LLC	55298	1A, 1B, 2A, 2B	0	29	8		8	21
	PA Fayette Energy Facility	55516	CTG1, CTG2	0	5	2		2	3
	PA FPL Energy Marcus Hook, LP	55801	0001, 0002, 0003	0	10	6		6	4
	PA Grays Ferry Cogen Partnership	54785	2	0	2	1		1	1
	PA Handsome Lake Energy	55233	EU-1A, EU-1B, EU-2A, EU-2B, EU-3A, EU-3B, EU-4A, EU-4B, EU-5A, EU-5B	0	0	0		0	0
	PA Hatfields Ferry Power Station	3179	1, 2, 3	49772	146160	144937		144937	1223
	PA Hazleton Generation	10870	TURB2, TURB3, TURB4	0	12	0		0	12
	PA Homer City	3122	1, 2, 3	61702	138883	120768		120768	18115
	PA Hunlock Power Station	3176	6	2257	3676	3674		3674	2
	PA Hunterstown Combined Cycle	55976	CT101, CT201, CT301	0	10	3		3	7
	PA Keystone	3136	1, 2	58264	174242	171081		171081	3161
	PA Liberty Electric Power Plant	55231	0001, 0002	0	14	4		4	10
	PA Lower Mount Bethel Energy	55667	CT01, CT02	0	3	2		2	1
	PA Martins Creek	3148	1, 2, 3, 4	36295	14974	14973		14973	1
	PA Mitchell Power Station	3181	1, 2, 3, 33	3530	884	634		634	250
	PA Montour	3149	1, 2	48871	128361	127780		127780	581
	PA Mt. Carmel Cogeneration	10343	SG-101	0	508	501		501	7
	PA New Castle	3138	3, 4, 5	12905	18632	18512		18512	120
	PA North East Cogeneration Plant	54571	001, 002	0	0	0		0	0
	PA Ontelaunee Energy Center	55193	CT1, CT2	0	13	2		2	11
	PA PEI Power Power Corporation	50279	2	0	0	0		0	0
	PA Portland	3113	1, 2, 5	6973	32818	32730		32730	88
	PA Schuylkill	3169	1	572	541	221		221	320
	PA Seward	3130	1, 2	7194	8195	8096		8096	99
	PA Shawville	3131	1, 2, 3, 4	21067	49225	49065		49065	160
	PA Sunbury	3152	3, 4, 1A, 1B, 2A, 2B	16550	34946	29808		29808	5138
	PA Titus	3115	1, 2, 3	6617	14609	14489		14489	120
	PA WPS Westwood Generation, LLC	50611	031	0	250	231		231	19
	RI Manchester Street	3236	9, 10, 11	1663	1799	4		4	1795
	RI Pawtucket Power Associates, LP	54056	1	0	1	0		0	1
	RI Rhode Island State Energy Partners	55107	RISEP1, RISEP2	0	7	6		6	1
	RI Tiverton Power	55048	1	0	10	3		3	7
	SC Broad River Energy Center	55166	CT-1, CT-2, CT-3, CT-4, CT-5	0	5	2		2	3

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
SC	Canadys Steam	3280	CAN1, CAN2, CAN3	10450	25373	17881		17881	7492
SC	Cherokee County Cogen	55043	CCCP1	0	7	0		0	7
SC	Columbia Energy Center (SC)	55386	CT-1, CT-2	0	3	2		2	1
SC	Cope Station	7210	COP1	2616	4068	2334		2334	1734
SC	Cross	130	1, 2, 3	14544	9592	9192		9192	400
SC	Darlington County	3250	12, 13	0	39	3		3	36
SC	Dolphus M Grainger	3317	1, 2	3391	10740	10340		10340	400
SC	H B Robinson	3251	1	3815	13873	12611		12611	1262
SC	Hagood	3285	HAG4	2189	1400	1		1	1399
SC	Jasper County Generating Facility	55927	CT01, CT02, CT03	0	236	6		6	230
SC	Jefferies	3319	1, 2, 3, 4	7630	23048	22647		22647	401
SC	John S. Rainey Generating Station	7834	CT3, CT4, CT5, CT1A, CT1B, CT2A, CT2B	0	16	2		2	14
SC	McMeekin	3287	MCM1, MCM2	8118	11750	10467		10467	1283
SC	Mill Creek Combustion Turbine Sta	7981	1, 2, 3, 4, 5, 6, 7, 8	0	114	6		6	108
SC	Urquhart	3295	URQ3, URQ4, URQ5, URQ6	7036	10642	7171		7171	3471
SC	W S Lee	3264	1, 2, 3, 7C, 8C	7854	11533	10942		10942	591
SC	Wateree	3297	WAT1, WAT2	18987	33725	30939		30939	2786
SC	Williams	3298	WIL1	15821	25974	22494		22494	3480
SC	Winyah	6249	1, 2, 3, 4	20845	16090	15688		15688	402
SD	Angus Anson	7237	2, 3, 4	1871	14949	5		5	14944
SD	Big Stone	6098	1	13715	21217	9043		9043	12174
SD	Groton Generating Station	56238	CT001	0	100	0		0	100
SD	Huron	3344	**2A, **2B	183	2	0		0	2
SD	Lange	55478	CT1	0	16	0		0	16
TN	Allen	3393	1, 2, 3	20595	25404	13211		13211	12193
TN	Brownsville Power I, LLC	55081	AA-001, AA-002, AA-003, AA-004	0	12	0		0	12
TN	Bull Run	3396	1	25047	44072	40008		40008	4064
TN	Cumberland	3399	1, 2	78282	57282	17096		17096	40186
TN	Gallatin	3403	1, 2, 3, 4, GCT5, GCT6, GCT7, GCT8	32872	54370	23111		23111	31259
TN	Gleason Generating Facility	55251	CTG-1, CTG-2, CTG-3	0	50	0		0	50
TN	John Sevier	3405	1, 2, 3, 4	25907	29000	27714		27714	1286
TN	Johnsonville	3406	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, JCT17, JCT18, JCT19, JCT20	34783	71329	64993		64993	6336

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
TN	Kingston	3407	1, 2, 3, 4, 5, 6, 7, 8, 9	48855	54629	51093		51093	3536
TN	Lagoon Creek	7845	LCT1, LCT2, LCT3, LCT4, LCT5, LCT6, LCT7, LCT8, LCT9, LCT10, LCT11, LCT12	0	1012	1		1	1011
TX	AES Deepwater, Inc.	10670	01001	0	14110	2361		2361	11749
TX	AES Western Power, LLC	3461	DWP9	28	0	0		0	0
TX	Alex Ty Cooke Generating Station	3602	1, 2	130	382	0		0	382
TX	Altura Channelview Cogen Facility	50815	ENG101, ENG201, ENG301, ENG401, ENG501, ENG601	0	22	11		11	11
TX	Barney M. Davis	4939	1, 2	894	4	1		1	3
TX	Bastrop Clean Energy Center	55168	CTG-1A, CTG-1B	0	15	6		6	9
TX	Baytown Energy Center	55327	CTG-1, CTG-2, CTG-3	0	13	11		11	2
TX	Big Brown	3497	1, 2	40863	85041	76797		76797	8244
TX	Blackhawk Station	55064	001, 002	0	13	6		6	7
TX	Bosque County Power Plant	55172	GT-1, GT-2, GT-3	0	4	2		2	2
TX	Brazos Valley Energy, LP	55357	CTG1, CTG2	0	9	6		6	3
TX	Bryan	3561	6	19	139	0		0	139
TX	C E Newman	3574	BW5	3	22	0		0	22
TX	C. R. Wing Cogeneration Plant	52176	1, 2	0	14	2		2	12
TX	Calpine Hidalgo Energy Center	7762	HRSG1, HRSG2	0	7	4		4	3
TX	Cedar Bayou	3460	CBY1, CBY2, CBY3	2460	15536	6		6	15530
TX	Channel Energy Center	55299	CTG1, CTG2	0	24	20		20	4
TX	Coleta Creek	6178	1	14721	17893	14274		14274	3619
TX	Collin	3500	1	92	0	0		0	0
TX	Colorado Bend Energy Center	56350	CT1A, CT1B, CT2A, CT2B	0	2	0		0	2
TX	Corpus Christi Energy Center	55206	CU1, CU2	0	13	7		7	6
TX	Cottonwood Energy Project	55358	CT1, CT2, CT3, CT4	0	22	8		8	14
TX	Dansby	6243	1, 2	94	732	1		1	731
TX	Decker Creek	3548	1, 2	323	323	5		5	318
TX	Decordova	8063	1	1018	5	1		1	4
TX	Deer Park Energy Center	55464	CTG1, CTG2, CTG3, CTG4	0	24	20		20	4
TX	Eagle Mountain	3489	1, 2, 3	292	0	0		0	0
TX	Eastman Cogeneration Facility	55176	1, 2	0	93	7		7	86
TX	Ennis-Tractebel Power Company	55223	GT-1	0	6	4		4	2

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	TX Exelon Laporte Generating Station	55365	GT-1, GT-2, GT-3, GT-4	0	33	0		0	33
	TX Exxonmobil Beaumont Refinery	50625	61STK1, 61STK2, 61STK3	0	18	9		9	9
	TX Fort Phantom Power Station	4938		313	0	0		0	0
	TX FPLE Forney, LP	55480	U1, U2, U3, U4, U5, U6	0	21	18		18	3
	TX Freestone Power Generation	55226	GT1, GT2, GT3, GT4	0	13	9		9	4
	TX Frontera Generation Facility	55098	1, 2	0	21	5		5	16
	TX Gibbons Creek Steam Electric Station	6136	1	14414	24046	11386		11386	12660
	TX Graham	3490	1, 2	731	19	10		10	9
	TX Greens Bayou	3464	GBY5	389	3006	2		2	3004
	TX Gregory Power Facility	55086	101, 102	0	18	10		10	8
	TX Guadalupe Generating Station	55153	CTG-1, CTG-2, CTG-3, CTG-4	0	16	10		10	6
	TX H W Pirkey Power Plant	7902	1	20532	50019	1953		1953	48066
	TX Handley Generating Station	3491	2, 3, 4, 5, 1A, 1B	705	60	2		2	58
	TX Harrington Station	6193	061B, 062B, 063B	26224	36111	19191		19191	16920
	TX Harrison County Power Project	55664	GT-1, GT-2	0	10	3		3	7
	TX Hays Energy Project	55144	STK1, STK2, STK3, STK4	0	12	8		8	4
	TX Holly Street	3549	3, 4	191	191	2		2	189
	TX J K Spruce	7097	**1	6692	13955	3394		3394	10561
	TX J L Bates	3438	1, 2	172	0	0		0	0
	TX J Robert Massengale Generating Station	3604	GT1	0	11	1		1	10
	TX J T Deely	6181	1, 2	26841	38879	23535		23535	15344
	TX Jack County Generation Facility	55230	CT-1, CT-2	0	10	8		8	2
	TX Johnson County Generation Facility	54817	EAST	0	10	3		3	7
	TX Jones Station	3482	151B, 152B	218	1636	6		6	1630
	TX Knox Lee Power Plant	3476	2, 3, 4, 5	285	1776	1		1	1775
	TX Lake Creek	3502	1, 2	230	5	0		0	5
	TX Lake Hubbard	3452	1, 2	774	20	8		8	12
	TX Lamar Power (Paris)	55097	1, 2, 3, 4	0	12	10		10	2
	TX Laredo	3439	1, 2, 3	114	8	4		4	4
	TX Leon Creek	3609	3, 4, CGT1, CGT2, CGT3, CGT4	12	300	0		0	300
	TX Lewis Creek	3457	1, 2	588	3504	6		6	3498
	TX Limestone	298	LIM1, LIM2	37945	45915	14677		14677	31238
	TX Lone Star Power Plant	3477	1	0	5	0		0	5

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	TX Lost Pines 1	55154	1, 2	0	58	7		7	51
	TX Magic Valley Generating Station	55123	CTG-1, CTG-2	0	9	6		6	3
	TX Martin Lake	6146	1, 2, 3	98933	86451	79038		79038	7413
	TX Midlothian Energy	55091	STK1, STK2, STK3, STK4, STK5, STK6	0	22	15		15	7
	TX Monticello	6147	1, 2, 3	81811	81985	74351		74351	7634
	TX Moore County Station	3483	3	0	1	0		0	1
	TX Morgan Creek	3492	5, 6	1070	1	0		0	1
	TX Mountain Creek Generating Station	3453	2, 6, 7, 8, 3A, 3B	669	100	2		2	98
	TX Mustang Station	55065	1, 2	0	28	6		6	22
	TX Mustang Station Units 4 and 5	56326	GEN1, GEN2	0	7	0		0	7
	TX New Gulf Power Facility	50137	1	0	4	0		0	4
	TX Newman	3456	1, 2, 3, **4, **5, GT-6A, GT-6B	230	1650	7		7	1643
	TX Nichols Station	3484	141B, 142B, 143B	213	1676	6		6	1670
	TX North Lake	3454	1, 2, 3	575	5	0		0	5
	TX North Texas	3627	3	13	19	0		0	19
	TX Nueces Bay	3441	5, 6, 7	637	0	0		0	0
	TX O W Sommers	3611	1, 2	666	3845	5		5	3840
	TX Odessa-Ector Generating Station	55215	GT1, GT2, GT3, GT4	0	14	10		10	4
	TX Oklaunion Power Station	127	1	7859	8482	4385		4385	4097
	TX P H Robinson	3466	PHR1, PHR2, PHR3, PHR4	2620	2901	0		0	2901
	TX Paint Creek Power Station	3524	1, 2, 3, 4	155	0	0		0	0
	TX Paris Energy Center	50109	HRSG1, HRSG2	0	10	2		2	8
	TX Pasadena Power Plant	55047	CG-1, CG-2, CG-3	0	11	8		8	3
	TX Permian Basin	3494	5, 6	907	5	1		1	4
	TX Plant X	3485	111B, 112B, 113B, 114B	91	692	5		5	687
	TX Power Lane Steam Plant	4195	2, 3	496	2965	0		0	2965
	TX Quail Run Energy Center	56349	CT1A, CT1B, CT2A, CT2B	0	0	0		0	0
	TX R W Miller	3628	1, 2, 3, **4, **5	2073	2087	1		1	2086
	TX Ray Olinger	3576	BW2, BW3, CE1, GE4	181	1416	3		3	1413
	TX Reliant Energy Channelview Cogen	55187	CHV1, CHV2, CHV3, CHV4	0	20	16		16	4
	TX Rio Nogales Power Project, LP	55137	CTG-1, CTG-2, CTG-3	0	11	6		6	5
	TX Rio Pecos Power Station	3526		243	0	0		0	0

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	TX Sabine	3459	1, 2, 3, 4, 5	1719	10282	15		15	10267
	TX Sabine Cogeneration Facility	55104	SAB-1, SAB-2	0	4	2		2	2
	TX Sam Bertron	3468	SRB1, SRB2, SRB3, SRB4	274	2052	0		0	2052
	TX Sam Rayburn Plant	3631	CT7, CT8, CT9	0	5	3		3	2
	TX Sam Seymour	6179	1, 2, 3	43800	41994	33186		33186	8808
	TX San Angelo Power Station	3527		161	0	0		0	0
	TX San Jacinto Steam Electric Station	7325	SJS1, SJS2	0	46	4		4	42
	TX San Miguel	6183	SM-1	17216	17340	8369		8369	8971
	TX Sand Hill Energy Center	7900	SH1, SH2, SH3, SH4, SH5	0	15	4		4	11
	TX Sandow	6648	4	25698	30682	23365		23365	7317
	TX Silas Ray	3559	9, 10	0	548	0		0	548
	TX Sim Gideon	3601	1, 2, 3	380	1909	4		4	1905
	TX South Houston Green Power Site	55470	EPN801, EPN802, EPN803	0	134	88		88	46
	TX Spencer	4266	4, 5	42	317	2		2	315
	TX SRW Cogen Limited Partnership	55120	CTG-1, CTG-2	0	12	9		9	3
	TX Stryker Creek	3504	1, 2	695	10	3		3	7
	TX Sweeny Cogeneration Facility	55015	1, 2, 3, 4	0	168	12		12	156
	TX Sweetwater Generating Plant	50615	GT01, GT02, GT03	0	5	0		0	5
	TX T C Ferguson	4937	1	253	987	3		3	984
	TX Tenaska Frontier Generation Station	55062	1, 2, 3	0	38	10		10	28
	TX Tenaska Gateway Generating Station	55132	OGTDB1, OGTDB2, OGTDB3	0	35	9		9	26
	TX Tolk Station	6194	171B, 172B	29225	60442	18873		18873	41569
	TX Tradinghouse	3506	1, 2	1588	20	5		5	15
	TX Trinidad	3507	9	142	10	2		2	8
	TX Twin Oaks Power, LP	7030	U1, U2	5623	7771	4564		4564	3207
	TX V H Braunig	3612	1, 2, 3, CT01, CT02	615	4894	6		6	4888
	TX Valley (TXU)	3508	1, 2, 3	719	5	1		1	4
	TX Victoria Power Station	3443	6	362	60	0		0	60
	TX W A Parish	3470	WAP1, WAP2, WAP3, WAP4, WAP5, WAP6, WAP7, WAP8	66984	120372	57804		57804	62568
	TX W B Tuttle	3613	1, 2, 3, 4	80	640	0		0	640
	TX Welsh Power Plant	6139	1, 2, 3	41395	52012	26413		26413	25599
	TX West Texas Energy Facility	55240	STK1, STK2	0	0	0		0	0

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
	TX Wilkes Power Plant	3478	1, 2, 3	277	2117	4		4	2113
	TX Wise County Power Company	55320	GT-1, GT-2	0	8	6		6	2
	TX Wolf Hollow I, LP	55139	CTG1, CTG2	0	20	7		7	13
	UT Bonanza	7790	1-1	13750	2558	1251		1251	1307
	UT Carbon	3644	1, 2	4412	6712	6512		6512	200
	UT Carrant Creek Power Project	56102	CTG1A, CTG1B	0	28	8		8	20
	UT Desert Power Plant	55858	UNT1, UNT2	0	4	0		0	4
	UT Gadsby	3648	1, 2, 3, 4, 5, 6	3979	61	1		1	60
	UT Hunter	6165	1, 2, 3	26668	6952	6672		6672	280
	UT Huntington	8069	1, 2	17678	4551	4351		4351	200
	UT Intermountain	6481	1SGA, 2SGA	5770	19756	4764		4764	14992
	UT Lake Side Power Plant	56237	CT01, CT02	0	22	2		2	20
	UT Millcreek Power	56253	MC-1	0	0	0		0	0
	UT Nebo Power Station	56177	U1	0	4	2		2	2
	UT West Valley Generation Project	55622	U1, U2, U3, U4, U5	0	52	2		2	50
	VA Altavista Power Station	10773	1, 2	0	93	80		80	13
	VA Bellemeade Power Station	50966	1, 2	0	15	8		8	7
	VA Bremono Power Station	3796	3, 4	7189	10940	10452		10452	488
	VA Buchanan -- Units 1 and 2	55738	1, 2	0	20	0		0	20
	VA Chesapeake Energy Center	3803	1, 2, 3, 4	14759	20773	20318		20318	455
	VA Chesterfield Power Station	3797	3, 4, 5, 6, **8A	35332	71210	71096		71096	114
	VA Clinch River	3775	1, 2, 3	17112	27477	26674		26674	803
	VA Clover Power Station	7213	1, 2	5876	2015	1630		1630	385
	VA Commonwealth Chesapeake	55381	CT-001, CT-002, CT-003, CT-004, CT-005, CT-006, CT-007	0	14	11		11	3
	VA Doswell Limited Partnership	52019	CT1	0	5	3		3	2
	VA Elizabeth River Combustion Turbine Sta	52087	CT-1, CT-2, CT-3	0	38	21		21	17
	VA Glen Lyn	3776	6, 51, 52	7800	11837	11491		11491	346
	VA Gordonsville Power Station	54844	1, 2	0	12	5		5	7
	VA Hopewell Power Station	10771	1, 2	0	318	283		283	35
	VA Ladysmith Combustion Turbine Sta	7838	1, 2	0	12	5		5	7
	VA Louisa Generation Facility	7837	EU1, EU2, EU3, EU4, EU5	0	20	8		8	12
	VA Marsh Run Generation Facility	7836	EU1, EU2, EU3	0	14	6		6	8
	VA Mecklenburg Power Station	52007	1, 2	0	586	513		513	73
	VA Mirant Potomac River	3788	1, 2, 3, 4, 5	13349	3840	3748		3748	92

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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
VA	Possum Point Power Station	3804	3, 4, 5, 6A, 6B	13708	2201	1949		1949	252
VA	Remington Combustion Turbine Station	7839	1, 2, 3, 4	0	12	7		7	5
VA	Southampton Power Station	10774	1, 2	0	243	146		146	97
VA	Tenaska Virginia Generating Station	55439	CTGDB1, CTGDB2, CTGDB3	0	22	4		4	18
VA	Wolf Hills Energy	55285	WH01, WH02, WH03, WH04, WH05, WH06, WH07, WH08, WH09, WH10	0	0	0		0	0
VA	Yorktown Power Station	3809	1, 2, 3	15650	24837	24228		24228	609
VT	J C McNeil	589	1	104	51	6		6	45
WA	Centralia	3845	30, 40, 50, 60, BW21, BW22	39413	2239	2131		2131	108
WA	Chehalis Generation Facility	55662	CT1, CT2	0	20	16		16	4
WA	Encogen Generating Station	7870	CT1, CT2, CT3	0	151	3		3	148
WA	Finley Combustion Turbine	7945	1	0	0	0		0	0
WA	Frederickson Power LP	55818	F1CT	0	6	2		2	4
WA	Fredonia Generating Station	607	CT3, CT4	0	21	0		0	21
WA	Goldendale Generating Station	55482	CT-1	0	8	2		2	6
WA	River Road	7605	1	0	15	5		5	10
WI	Alma	4140	B4, B5	3099	7600	6905		6905	695
WI	Bay Front	3982	1, 2, 5	1889	8992	1149		1149	7843
WI	Blount Street	3992	3, 5, 6, 7, 8, 9, 11	3810	11931	2766		2766	9165
WI	Columbia	8023	1, 2	24242	31580	25425		25425	6155
WI	Combined Locks Energy Center, LLC	55558	B06	0	19	0		0	19
WI	Concord	7159	**1, **2, **3, **4	504	20	1		1	19
WI	Depere Energy Center	55029	B01	0	17	1		1	16
WI	E J Stoneman Generation Station	4146	B1, B2	400	692	682		682	10
WI	Edgewater (4050)	4050	3, 4, 5	23092	80000	16668		16668	63332
WI	Elk Mound Generating Station	7863	1, 2	0	20	0		0	20
WI	Fox Energy Company LLC	56031	CTG-1, CTG-2	0	2	2		2	0
WI	Genoa	4143	1	8019	13792	12480		12480	1312
WI	Germantown Power Plant	6253	**5	0	8	1		1	7
WI	Island Street Peaking Plant	55836	1A, 1B	0	53	0		0	53
WI	J P Madgett	4271	B1	7436	22710	8039		8039	14671
WI	Manitowoc	4125	6, 7, 8, 9	1724	3475	2104		2104	1371
WI	Neenah Energy Facility	55135	CT01, CT02	0	6	1		1	5
WI	Nelson Dewey	4054	1, 2	5332	15502	15063		15063	439



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State	Plant Name	Plant Code	Units	2007 Allowances Allocated	Held in Accounts as of 3/1/2008	2007 Emissions	2007 Underutilization	Allowances Deducted	Allowances Carried Over to 2008
WI	Paris	7270	**1, **2, **3, **4	496	19	1		1	18
WI	Pleasant Prairie	6170	1, 2	28482	34915	2230		2230	32685
WI	Port Washington Generating Station	4040	21, 22	4283	4162	4		4	4158
WI	Pulliam	4072	3, 4, 5, 6, 7, 8, 32	6935	11479	10448		10448	1031
WI	Riverside Energy Center, LLC	55641	CT-01, CT-02	0	5	4		4	1
WI	Rock River	4057	1, 2	3042	9498	2		2	9496
WI	Rockgen Energy Center	55391	CT-1, CT-2, CT-3	0	1	0		0	1
WI	Sheboygan Falls Energy Facility	56166	1, 2	0	0	0		0	0
WI	South Fond Du Lac	7203	**CT1, **CT2, **CT3, **CT4	717	3182	0		0	3182
WI	South Oak Creek	4041	5, 6, 7, 8	21642	32959	13693		13693	19266
WI	Valley (WEPCO)	4042	1, 2, 3, 4	7483	8310	6848		6848	1462
WI	West Campus Cogeneration Facility	7991	U1, U2	0	12	2		2	10
WI	West Marinette	4076	**33, **34	765	1963	0		0	1963
WI	Weston	4078	1, 2, 3	12276	10274	9108		9108	1166
WI	Whitewater Cogeneration Facility	55011	01	0	5	3		3	2
WV	Albright Power Station	3942	1, 2, 3	8626	20903	20793		20793	110
WV	Big Sandy Peaker Plant	55284	GS01, GS02, GS03, GS04, GS05, GS06, GS07, GS08, GS09, GS10, GS11, GS12	0	0	0		0	0
WV	Ceredo Generating Station	55276	01, 02, 03, 04, 05, 06	0	17	0		0	17
WV	Fort Martin Power Station	3943	1, 2	35702	88193	88031		88031	162
WV	Harrison Power Station	3944	1, 2, 3	58766	4828	4738		4738	90
WV	John E Amos	3935	1, 2, 3	90000	126696	103546		103546	23150
WV	Kammer	3947	1, 2, 3	23971	44422	43127		43127	1295
WV	Kanawha River	3936	1, 2	8753	13788	13384		13384	404
WV	Mitchell (WV)	3948	1, 2	38585	9410	6084		6084	3326
WV	Mount Storm Power Station	3954	1, 2, 3	54839	3006	2774		2774	232
WV	Mountaineer (1301)	6264	1	35223	8353	2302		2302	6051
WV	North Branch Power Station	7537	1A, 1B	0	1375	1034		1034	341
WV	Phil Sporn	3938	11, 21, 31, 41, 51	23078	55237	40530		40530	14707
WV	Pleasants Energy, LLC	55349	1, 2	0	5	5		5	0
WV	Pleasants Power Station	6004	1, 2	37797	39082	38437		38437	645
WV	Rivesville Power Station	3945	7, 8	3766	2944	2884		2884	60
WV	Willow Island Power Station	3946	1, 2	6180	4378	4327		4327	51
WY	Dave Johnston	4158	BW41, BW42, BW43, BW44	24912	21756	21356		21356	400

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<b>State</b>	<b>Plant Name</b>	<b>Plant Code</b>	<b>Units</b>	<b>2007 Allowances Allocated</b>	<b>Held in Accounts as of 3/1/2008</b>	<b>2007 Emissions</b>	<b>2007 Underutilization</b>	<b>Allowances Deducted</b>	<b>Allowances Carried Over to 2008</b>
WY	Jim Bridger	8066	BW71, BW72, BW73, BW74	65038	19454	19054		19054	400
WY	Laramie River	6204	1, 2, 3	13239	17973	10387		10387	7586
WY	Naughton	4162	1, 2, 3	17162	21888	21589		21589	299
WY	Neil Simpson II	7504	001, CT1	0	1693	617		617	1076
WY	Neil Simpson II (CT2)	55477	CT2	0	24	0		0	24
WY	Wygen I	55479	001	0	1022	833		833	189
WY	Wyodak	6101	BW91	18317	7935	7835		7835	100

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
AL	Barry	3	1	Alabama Power Company	Averaging Plan	0.40	0.31			0.46	0.26
AL	Barry	3	2	Alabama Power Company	Averaging Plan	0.40	0.31			0.46	0.26
AL	Barry	3	3	Alabama Power Company	Averaging Plan	0.40	0.31			0.46	0.26
AL	Barry	3	4	Alabama Power Company	Averaging Plan	0.40	0.27			0.46	0.26
AL	Barry	3	5	Alabama Power Company	Averaging Plan	0.40	0.31			0.46	0.26
AL	Charles R Lowman	56	1	PowerSouth Energy Cooperative, Inc.	Standard Limit	0.46	0.43				
AL	Charles R Lowman	56	2	PowerSouth Energy Cooperative, Inc.	Early Election	0.46	0.46	0.50			
AL	Charles R Lowman	56	3	PowerSouth Energy Cooperative, Inc.	Early Election	0.46	0.48	0.50			
AL	Colbert	47	1	Tennessee Valley Authority	Averaging Plan	0.50	0.43			0.56	0.38
AL	Colbert	47	2	Tennessee Valley Authority	Averaging Plan	0.50	0.43			0.56	0.38
AL	Colbert	47	3	Tennessee Valley Authority	Averaging Plan	0.50	0.43			0.56	0.38
AL	Colbert	47	4	Tennessee Valley Authority	Averaging Plan	0.50	0.43			0.56	0.38
AL	Colbert	47	5	Tennessee Valley Authority	Averaging Plan	0.50	0.11			0.56	0.38
AL	E C Gaston	26	1	Alabama Power Company	Averaging Plan	0.50	0.39			0.46	0.26
AL	E C Gaston	26	2	Alabama Power Company	Averaging Plan	0.50	0.39			0.46	0.26

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
AL	E C Gaston	26	3	Alabama Power Company	Averaging Plan	0.50	0.41			0.46	0.26
AL	E C Gaston	26	4	Alabama Power Company	Averaging Plan	0.50	0.41			0.46	0.26
AL	E C Gaston	26	5	Alabama Power Company	Averaging Plan	0.45	0.25			0.46	0.26
AL	Gadsden	7	1	Alabama Power Company	Averaging Plan	0.45	0.55			0.46	0.26
AL	Gadsden	7	2	Alabama Power Company	Averaging Plan	0.45	0.54			0.46	0.26
AL	Gorgas	8	10	Alabama Power Company	Averaging Plan	0.40	0.33			0.46	0.26
AL	Gorgas	8	6	Alabama Power Company	Averaging Plan	0.46	0.45			0.46	0.26
AL	Gorgas	8	7	Alabama Power Company	Averaging Plan	0.46	0.45			0.46	0.26
AL	Gorgas	8	8	Alabama Power Company	Averaging Plan	0.40	0.42			0.46	0.26
AL	Gorgas	8	9	Alabama Power Company	Averaging Plan	0.40	0.43			0.46	0.26
AL	Greene County	10	1	Alabama Power Company	Averaging Plan	0.68	0.27			0.46	0.26
AL	Greene County	10	2	Alabama Power Company	Averaging Plan	0.46	0.32			0.46	0.26
AL	James H Miller Jr	6002	1	Alabama Power Company	Averaging Plan	0.46	0.18			0.46	0.26
AL	James H Miller Jr	6002	2	Alabama Power Company	Averaging Plan	0.46	0.19			0.46	0.26
AL	James H Miller Jr	6002	3	Alabama Power Company	Averaging Plan	0.46	0.20			0.46	0.26

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
AL	James H Miller Jr	6002	4	Alabama Power Company	Averaging Plan	0.46	0.20			0.46	0.26
AL	Widows Creek	50	1	Tennessee Valley Authority	Averaging Plan	0.46	0.45			0.56	0.38
AL	Widows Creek	50	2	Tennessee Valley Authority	Averaging Plan	0.46	0.45			0.56	0.38
AL	Widows Creek	50	3	Tennessee Valley Authority	Averaging Plan	0.46	0.45			0.56	0.38
AL	Widows Creek	50	4	Tennessee Valley Authority	Averaging Plan	0.46	0.45			0.56	0.38
AL	Widows Creek	50	5	Tennessee Valley Authority	Averaging Plan	0.46	0.45			0.56	0.38
AL	Widows Creek	50	6	Tennessee Valley Authority	Averaging Plan	0.46	0.45			0.56	0.38
AL	Widows Creek	50	7	Tennessee Valley Authority	Averaging Plan	0.40	0.24			0.56	0.38
AL	Widows Creek	50	8	Tennessee Valley Authority	Averaging Plan	0.40	0.23			0.56	0.38
AR	Flint Creek Power Plant	6138	1	Southwestern Electric Power Company	Averaging Plan	0.46	0.28			0.56	0.34
AR	Independence	6641	1	Entergy Corporation	Early Election	0.40	0.26	0.45			
AR	Independence	6641	2	Entergy Corporation	Early Election	0.40	0.25	0.45			
AR	White Bluff	6009	1	Entergy Corporation	Early Election	0.40	0.24	0.45			
AR	White Bluff	6009	2	Entergy Corporation	Early Election	0.40	0.27	0.45			
AZ	Apache Station	160	2	Arizona Electric Power Cooperative	Early Election	0.46	0.47	0.50			
AZ	Apache Station	160	3	Arizona Electric Power Cooperative	Early Election	0.46	0.42	0.50			

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AZ	Cholla	113	1	Arizona Public Service Company	Early Election	0.40	0.38	0.45			
AZ	Cholla	113	2	Arizona Public Service Company	Early Election	0.40	0.36	0.45			
AZ	Cholla	113	3	Arizona Public Service Company	Early Election	0.40	0.34	0.45			
AZ	Cholla	113	4	Arizona Public Service Company	Early Election	0.40	0.33	0.45			
AZ	Coronado Generating Station	6177	U1B	Salt River Project	Early Election	0.46	0.41	0.50			
AZ	Coronado Generating Station	6177	U2B	Salt River Project	Early Election	0.46	0.45	0.50			
AZ	Irvington Generating Station	126	4	Tucson Electric Power Company	Standard Limit	0.46	0.42				
AZ	Navajo Generating Station	4941	1	Salt River Project	Early Election	0.40	0.38	0.45			
AZ	Navajo Generating Station	4941	2	Salt River Project	Early Election	0.40	0.35	0.45			
AZ	Navajo Generating Station	4941	3	Salt River Project	Early Election	0.40	0.33	0.45			
AZ	Springerville Generating Station	8223	1	Tucson Electric Power Company	Early Election	0.40	0.19	0.45			
AZ	Springerville Generating Station	8223	2	Tucson Electric Power Company	Early Election	0.40	0.19	0.45			
CO	Arapahoe	465	3	Public Service Company of Colorado	Averaging Plan	0.80	0.76			0.80	0.43
CO	Arapahoe	465	4	Public Service Company of Colorado	Averaging Plan	0.80	0.27			0.80	0.43
CO	Cameo	468	2	Public Service Company of Colorado	Standard Limit	0.46	0.35				
CO	Cherokee	469	1	Public Service Company of Colorado	Averaging Plan	0.80	0.33			0.80	0.51

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
CO	Cherokee	469	2	Public Service Company of Colorado	Averaging Plan	0.80	0.68			0.80	0.51
CO	Cherokee	469	3	Public Service Company of Colorado	Early Election	0.46	0.31	0.50			
CO	Cherokee	469	4	Public Service Company of Colorado	Early Election	0.40	0.34	0.45			
CO	Comanche (470)	470	1	Public Service Company of Colorado	Early Election	0.40	0.33	0.45			
CO	Comanche (470)	470	2	Public Service Company of Colorado	Early Election	0.46	0.27	0.50			
CO	Craig	6021	C1	Tri-State Generation & Transmission	Early Election	0.46	0.29	0.50			
CO	Craig	6021	C2	Tri-State Generation & Transmission	Early Election	0.46	0.27	0.50			
CO	Craig	6021	C3	Tri-State Generation & Transmission	Early Election	0.46	0.38	0.50			
CO	Hayden	525	H1	Public Service Company of Colorado	Standard Limit	0.46	0.42				
CO	Hayden	525	H2	Public Service Company of Colorado	Standard Limit	0.40	0.32				
CO	Martin Drake	492	5	Colorado Springs Utilities	Averaging Plan	0.46	0.39			0.46	0.41
CO	Martin Drake	492	6	Colorado Springs Utilities	Averaging Plan	0.46	0.42			0.46	0.41
CO	Martin Drake	492	7	Colorado Springs Utilities	Averaging Plan	0.46	0.41			0.46	0.41
CO	Pawnee	6248	1	Public Service Company of Colorado	Early Election	0.46	0.22	0.50			
CO	Rawhide Energy Station	6761	101	Platte River Power Authority	Early Election	0.40	0.16	0.45			
CO	Ray D Nixon	8219	1	Colorado Springs Utilities	Early Election	0.46	0.26	0.50			

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
CO	Valmont	477	5	Public Service Company of Colorado	Early Election	0.40	0.33	0.45			
CT	Bridgeport Harbor Station	568	BHB3	PSEG Power Connecticut LLC	Early Election	0.40	0.14	0.45			
DE	Edge Moor	593	3	Conectiv Delmarva Generation, LLC	Standard Limit	0.40	0.24				
DE	Edge Moor	593	4	Conectiv Delmarva Generation, LLC	Standard Limit	0.40	0.25				
DE	Indian River	594	1	Indian River Operations, Inc.	Standard Limit	0.46	0.38				
DE	Indian River	594	2	Indian River Operations, Inc.	Standard Limit	0.46	0.37				
DE	Indian River	594	3	Indian River Operations, Inc.	Standard Limit	0.46	0.31				
DE	Indian River	594	4	Indian River Operations, Inc.	Standard Limit	0.46	0.33				
FL	Big Bend	645	BB01	Tampa Electric Company	Averaging Plan	0.84	0.65			0.76	0.49
FL	Big Bend	645	BB02	Tampa Electric Company	Averaging Plan	0.84	0.65			0.76	0.49
FL	Big Bend	645	BB03	Tampa Electric Company	Averaging Plan	0.84	0.40			0.76	0.49
FL	Big Bend	645	BB04	Tampa Electric Company	Averaging Plan	0.45	0.11			0.76	0.49
FL	C D McIntosh Jr Power Plant	676	3	Lakeland Electric	Early Election	0.46	0.38	0.50			
FL	Crist Electric Generating Plant	641	4	Gulf Power Company	Averaging Plan	0.45	0.34			0.46	0.26
FL	Crist Electric Generating Plant	641	5	Gulf Power Company	Averaging Plan	0.45	0.31			0.46	0.26
FL	Crist Electric Generating Plant	641	6	Gulf Power Company	Averaging Plan	0.50	0.26			0.46	0.26



## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
FL	Crist Electric Generating Plant	641	7	Gulf Power Company	Averaging Plan	0.50	0.08			0.46	0.26
FL	Crystal River	628	1	Progress Energy Corporation	Averaging Plan	0.40	0.37			0.44	0.27
FL	Crystal River	628	2	Progress Energy Corporation	Averaging Plan	0.40	0.38			0.44	0.27
FL	Crystal River	628	4	Progress Energy Corporation	Averaging Plan	0.46	0.49			0.44	0.27
FL	Crystal River	628	5	Progress Energy Corporation	Averaging Plan	0.46	0.47			0.44	0.27
FL	Curtis H. Stanton Energy Center	564	1	Orlando Utilities Commission	Standard Limit	0.46	0.37				
FL	Deerhaven	663	B2	Gainesville Regional Utilities	Early Election	0.46	0.46	0.50			
FL	Lansing Smith Generating Plant	643	1	Gulf Power Company	Averaging Plan	0.40	0.49			0.46	0.26
FL	Lansing Smith Generating Plant	643	2	Gulf Power Company	Averaging Plan	0.40	0.38			0.46	0.26
FL	Scholz Electric Generating Plant	642	1	Gulf Power Company	Averaging Plan	0.50	0.58			0.46	0.26
FL	Scholz Electric Generating Plant	642	2	Gulf Power Company	Averaging Plan	0.50	0.58			0.46	0.26
FL	Seminole (136)	136	1	Seminole Electric Cooperative, Inc.	Early Election	0.46	0.35	0.50			
FL	Seminole (136)	136	2	Seminole Electric Cooperative, Inc.	Early Election	0.46	0.40	0.50			
FL	St. Johns River Power	207	1	JEA	Early Election	0.46	0.42	0.50			
FL	St. Johns River Power	207	2	JEA	Early Election	0.46	0.45	0.50			
GA	Bowen	703	1BLR	Georgia Power Company	Averaging Plan	0.45	0.14			0.46	0.26

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State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
GA	Bowen	703	2BLR	Georgia Power Company	Averaging Plan	0.45	0.21			0.46	0.26
GA	Bowen	703	3BLR	Georgia Power Company	Averaging Plan	0.45	0.16			0.46	0.26
GA	Bowen	703	4BLR	Georgia Power Company	Averaging Plan	0.45	0.16			0.46	0.26
GA	Hammond	708	1	Georgia Power Company	Averaging Plan	0.50	0.38			0.46	0.26
GA	Hammond	708	2	Georgia Power Company	Averaging Plan	0.50	0.38			0.46	0.26
GA	Hammond	708	3	Georgia Power Company	Averaging Plan	0.50	0.38			0.46	0.26
GA	Hammond	708	4	Georgia Power Company	Averaging Plan	0.50	0.25			0.46	0.26
GA	Harlee Branch	709	1	Georgia Power Company	Averaging Plan	0.68	0.48			0.46	0.26
GA	Harlee Branch	709	2	Georgia Power Company	Averaging Plan	0.50	0.48			0.46	0.26
GA	Harlee Branch	709	3	Georgia Power Company	Averaging Plan	0.68	0.40			0.46	0.26
GA	Harlee Branch	709	4	Georgia Power Company	Averaging Plan	0.68	0.40			0.46	0.26
GA	Jack McDonough	710	MB1	Georgia Power Company	Averaging Plan	0.45	0.24			0.46	0.26
GA	Jack McDonough	710	MB2	Georgia Power Company	Averaging Plan	0.45	0.24			0.46	0.26
GA	Kraft	733	1	Georgia Power Company	Averaging Plan	0.45	0.55			0.46	0.26
GA	Kraft	733	2	Georgia Power Company	Averaging Plan	0.45	0.55			0.46	0.26
GA	Kraft	733	3	Georgia Power Company	Averaging Plan	0.45	0.55			0.46	0.26
GA	McIntosh (6124)	6124	1	Georgia Power Company	Averaging Plan	0.50	0.54			0.46	0.26
GA	Mitchell (GA)	727	3	Georgia Power Company	Averaging Plan	0.45	0.59			0.46	0.26
GA	Scherer	6257	1	Georgia Power Company	Averaging Plan	0.40	0.16			0.46	0.26
GA	Scherer	6257	2	Georgia Power Company	Averaging Plan	0.40	0.14			0.46	0.26
GA	Scherer	6257	3	Georgia Power Company	Averaging Plan	0.45	0.13			0.46	0.26
GA	Scherer	6257	4	Georgia Power Company	Averaging Plan	0.40	0.14	0.45		0.46	0.26
GA	Wansley (6052)	6052	1	Georgia Power Company	Averaging Plan	0.45	0.21			0.46	0.26
GA	Wansley (6052)	6052	2	Georgia Power Company	Averaging Plan	0.45	0.24			0.46	0.26
GA	Yates	728	Y1BR	Georgia Power Company	Averaging Plan	0.45	0.41	0.00		0.46	0.26
GA	Yates	728	Y2BR	Georgia Power Company	Averaging Plan	0.45	0.47			0.46	0.26

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GA	Yates	728	Y3BR	Georgia Power Company	Averaging Plan	0.45	0.47			0.46	0.26
GA	Yates	728	Y4BR	Georgia Power Company	Averaging Plan	0.45	0.38			0.46	0.26
GA	Yates	728	Y5BR	Georgia Power Company	Averaging Plan	0.45	0.38			0.46	0.26
GA	Yates	728	Y6BR	Georgia Power Company	Averaging Plan	0.45	0.27			0.46	0.26
GA	Yates	728	Y7BR	Georgia Power Company	Averaging Plan	0.45	0.27			0.46	0.26
IA	Ames	1122	7	City of Ames	Early Election	0.40	0.33	0.45			
IA	Ames	1122	8	City of Ames	Early Election	0.46	0.39	0.50			
IA	Burlington (IA)	1104	1	IES Utilities, Inc	Standard Limit	0.45	0.15				
IA	Dubuque	1046	1	Interstate Power & Light Company	Averaging Plan	0.46	0.62			0.46	0.32
IA	Dubuque	1046	5	Interstate Power & Light Company	Averaging Plan	0.46	0.75			0.46	0.32
IA	Earl F Wisdom	1217	1	Corn Belt Power Cooperative	Alternative Emissions Limit	0.46	0.57		0.59		
IA	Fair Station	1218	2	Central Iowa Power Cooperative	Standard Limit	0.46	0.41				
IA	George Neal North	1091	2	MidAmerican Energy Company	Early Election	0.46	0.31	0.50			
IA	George Neal North	1091	3	MidAmerican Energy Company	Early Election	0.46	0.24	0.50			
IA	George Neal South	7343	4	MidAmerican Energy Company	Early Election	0.46	0.21	0.50			
IA	Lansing	1047	1	Interstate Power & Light Company	Averaging Plan	0.46	0.00			0.46	0.32
IA	Lansing	1047	2	Interstate Power & Light Company	Averaging Plan	0.46	0.55			0.46	0.32
IA	Lansing	1047	3	Interstate Power & Light Company	Averaging Plan	0.46	0.66			0.46	0.32

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IA	Lansing	1047	4	Interstate Power & Light Company	Early Election	0.46	0.46	0.50			
IA	Louisa	6664	101	MidAmerican Energy Company	Early Election	0.46	0.18	0.50			
IA	Milton L Kapp	1048	2	Interstate Power & Light Company	Averaging Plan	0.45	0.12			0.46	0.32
IA	Muscatine	1167	9	Muscatine Power and Water	Standard Limit	0.40	0.21				
IA	Ottumwa	6254	1	Interstate Power & Light Company	Early Election	0.40	0.18	0.45			
IA	Prairie Creek	1073	3	IES Utilities, Inc	Averaging Plan	0.46	0.50			0.46	0.32
IA	Prairie Creek	1073	4	IES Utilities, Inc	Standard Limit	0.50	0.36				
IA	Riverside (1081)	1081	9	MidAmerican Energy Company	Standard Limit	0.45	0.24				
IA	Sixth Street	1058	2	IES Utilities, Inc	Averaging Plan	0.46	0.35			0.46	0.32
IA	Sixth Street	1058	3	IES Utilities, Inc	Averaging Plan	0.46	0.24			0.46	0.32
IA	Sixth Street	1058	4	IES Utilities, Inc	Averaging Plan	0.46	0.27			0.46	0.32
IA	Sixth Street	1058	5	IES Utilities, Inc	Averaging Plan	0.46	0.18			0.46	0.32
IA	Sutherland	1077	1	IES Utilities, Inc	Averaging Plan	0.46	0.31			0.46	0.32
IA	Sutherland	1077	2	IES Utilities, Inc	Averaging Plan	0.46	0.27			0.46	0.32
IA	Walter Scott Jr. Energy Center	1082	1	MidAmerican Energy Company	Early Election	0.46	0.34	0.50			
IA	Walter Scott Jr. Energy Center	1082	2	MidAmerican Energy Company	Early Election	0.40	0.42	0.45			
IA	Walter Scott Jr. Energy Center	1082	3	MidAmerican Energy Company	Early Election	0.46	0.18	0.50			
IL	Baldwin Energy Complex	889	1	Dynegy Midwest Generation, Inc.	Standard Limit	0.86	0.07				

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IL	Baldwin Energy Complex	889	2	Dynegy Midwest Generation, Inc.	Standard Limit	0.86	0.07				
IL	Baldwin Energy Complex	889	3	Dynegy Midwest Generation, Inc.	Averaging Plan	0.45	0.09			0.44	0.13
IL	Coffeen	861	01	Ameren Energy Generating Company	Averaging Plan	0.86	0.35			0.72	0.33
IL	Coffeen	861	02	Ameren Energy Generating Company	Averaging Plan	0.86	0.35			0.72	0.33
IL	Crawford	867	7	Midwest Generation EME, LLC	Early Election	0.40	0.14	0.45			
IL	Crawford	867	8	Midwest Generation EME, LLC	Early Election	0.40	0.16	0.45			
IL	Dallman	963	33	City of Springfield, IL	Early Election	0.40	0.23	0.45			
IL	Duck Creek	6016	1	AmerenEnergy Resources Generating Company	Averaging Plan	0.46	0.28			0.46	0.21
IL	E D Edwards	856	1	AmerenEnergy Resources Generating Company	Averaging Plan	0.46	0.25			0.46	0.21
IL	E D Edwards	856	2	AmerenEnergy Resources Generating Company	Averaging Plan	0.46	0.25			0.46	0.21
IL	E D Edwards	856	3	AmerenEnergy Resources Generating Company	Averaging Plan	0.46	0.15			0.46	0.21
IL	Fisk	886	19	Midwest Generation EME, LLC	Early Election	0.40	0.13	0.45			
IL	Havana	891	9	Dynegy Midwest Generation, Inc.	Standard Limit	0.46	0.05				

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IL	Hennepin Power Station	892	1	Dynergy Midwest Generation, Inc.	Averaging Plan	0.40	0.11			0.44	0.13
IL	Hennepin Power Station	892	2	Dynergy Midwest Generation, Inc.	Averaging Plan	0.45	0.11			0.44	0.13
IL	Hutsonville	863	05	Ameren Energy Generating Company	Averaging Plan	0.45	0.23			0.72	0.33
IL	Hutsonville	863	06	Ameren Energy Generating Company	Averaging Plan	0.45	0.23			0.72	0.33
IL	Joliet 29	384	71	Midwest Generation EME, LLC	Standard Limit	0.40	0.11				
IL	Joliet 29	384	72	Midwest Generation EME, LLC	Standard Limit	0.40	0.11				
IL	Joliet 29	384	81	Midwest Generation EME, LLC	Standard Limit	0.40	0.11				
IL	Joliet 29	384	82	Midwest Generation EME, LLC	Standard Limit	0.40	0.11				
IL	Joliet 9	874	5	Midwest Generation EME, LLC	Standard Limit	0.86	0.38				
IL	Joppa Steam	887	1	Electric Energy, Inc.	Standard Limit	0.45	0.13				
IL	Joppa Steam	887	2	Electric Energy, Inc.	Standard Limit	0.45	0.13				
IL	Joppa Steam	887	3	Electric Energy, Inc.	Standard Limit	0.45	0.13				
IL	Joppa Steam	887	4	Electric Energy, Inc.	Standard Limit	0.45	0.13				
IL	Joppa Steam	887	5	Electric Energy, Inc.	Standard Limit	0.45	0.11				
IL	Joppa Steam	887	6	Electric Energy, Inc.	Standard Limit	0.45	0.11				
IL	Kincaid Station	876	1	Dominion Energy Services Company	Standard Limit	0.86	0.38				
IL	Kincaid Station	876	2	Dominion Energy Services Company	Standard Limit	0.86	0.38				

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IL	Marion	976	4	Southern Illinois Power Cooperative	Standard Limit	0.86	0.58				
IL	Meredosia	864	01	Ameren Energy Generating Company	Averaging Plan	0.45	0.47			0.72	0.33
IL	Meredosia	864	02	Ameren Energy Generating Company	Averaging Plan	0.45	0.47			0.72	0.33
IL	Meredosia	864	03	Ameren Energy Generating Company	Averaging Plan	0.45	0.47			0.72	0.33
IL	Meredosia	864	04	Ameren Energy Generating Company	Averaging Plan	0.45	0.47			0.72	0.33
IL	Meredosia	864	05	Ameren Energy Generating Company	Averaging Plan	0.45	0.25			0.72	0.33
IL	Newton	6017	1	Ameren Energy Generating Company	Standard Limit	0.45	0.09				
IL	Newton	6017	2	Ameren Energy Generating Company	Standard Limit	0.45	0.10				
IL	Powerton	879	51	Midwest Generation EME, LLC	Standard Limit	0.86	0.59				
IL	Powerton	879	52	Midwest Generation EME, LLC	Standard Limit	0.86	0.59				
IL	Powerton	879	61	Midwest Generation EME, LLC	Standard Limit	0.86	0.59				
IL	Powerton	879	62	Midwest Generation EME, LLC	Standard Limit	0.86	0.59				
IL	Vermilion Power Station	897	1	Dynegy Midwest Generation, Inc.	Averaging Plan	0.45	0.27			0.44	0.13
IL	Vermilion Power Station	897	2	Dynegy Midwest Generation, Inc.	Averaging Plan	0.45	0.27			0.44	0.13
IL	Waukegan	883	7	Midwest Generation EME, LLC	Early Election	0.40	0.13	0.45			

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IL	Waukegan	883	8	Midwest Generation EME, LLC	Early Election	0.40	0.12	0.45			
IL	Will County	884	1	Midwest Generation EME, LLC	Standard Limit	0.86	0.42				
IL	Will County	884	2	Midwest Generation EME, LLC	Standard Limit	0.86	0.44				
IL	Will County	884	3	Midwest Generation EME, LLC	Early Election	0.40	0.14	0.45			
IL	Will County	884	4	Midwest Generation EME, LLC	Early Election	0.40	0.13	0.45			
IL	Wood River Power Station	898	4	Dynegy Midwest Generation, Inc.	Standard Limit	0.40	0.14				
IL	Wood River Power Station	898	5	Dynegy Midwest Generation, Inc.	Averaging Plan	0.40	0.16			0.44	0.13
IN	A B Brown Generating Station	6137	1	Southern Indiana Gas and Electric Company	Early Election	0.46	0.29	0.50			
IN	A B Brown Generating Station	6137	2	Southern Indiana Gas and Electric Company	Early Election	0.46	0.28	0.50			
IN	Alcoa Allowance Management Inc	6705	4	Alcoa Allowance Management, Inc.	Standard Limit	0.68	0.28				
IN	Bailly Generating Station	995	7	Northern Indiana Public Service Company	Averaging Plan	0.86	0.75			0.74	0.45
IN	Bailly Generating Station	995	8	Northern Indiana Public Service Company	Averaging Plan	0.86	0.75			0.74	0.45
IN	Cayuga	1001	1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.45	0.31			0.48	0.22
IN	Cayuga	1001	2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.45	0.31			0.48	0.22



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IN	Clifty Creek	983	1	Indiana Kentucky Electric Corp	Averaging Plan	0.84	0.46			0.84	0.46
IN	Clifty Creek	983	2	Indiana Kentucky Electric Corp	Averaging Plan	0.84	0.46			0.84	0.46
IN	Clifty Creek	983	3	Indiana Kentucky Electric Corp	Averaging Plan	0.84	0.46			0.84	0.46
IN	Clifty Creek	983	4	Indiana Kentucky Electric Corp	Averaging Plan	0.84	0.54			0.84	0.46
IN	Clifty Creek	983	5	Indiana Kentucky Electric Corp	Averaging Plan	0.84	0.54			0.84	0.46
IN	Clifty Creek	983	6	Indiana Kentucky Electric Corp	Averaging Plan	0.84	0.54			0.84	0.46
IN	Dean H Mitchell Generating Station	996	11	Northern Indiana Public Service Company	Early Election	0.46	0.00	0.50			
IN	Dean H Mitchell Generating Station	996	4	Northern Indiana Public Service Company	Early Election	0.40	0.00	0.45			
IN	Dean H Mitchell Generating Station	996	5	Northern Indiana Public Service Company	Early Election	0.40	0.00	0.45			
IN	Dean H Mitchell Generating Station	996	6	Northern Indiana Public Service Company	Early Election	0.40	0.00	0.45			
IN	Edwardsport	1004	7-1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.63			0.48	0.22
IN	Edwardsport	1004	7-2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.54			0.48	0.22
IN	Edwardsport	1004	8-1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.58			0.48	0.22

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IN	F B Culley Generating Station	1012	2	Southern Indiana Gas and Electric Company	Averaging Plan	0.50	0.15			0.50	0.15
IN	F B Culley Generating Station	1012	3	Southern Indiana Gas and Electric Company	Averaging Plan	0.50	0.15			0.50	0.15
IN	Frank E Ratts	1043	1SG1	Hoosier Energy REC, Inc.	Averaging Plan	0.50	0.60			0.47	0.27
IN	Frank E Ratts	1043	2SG1	Hoosier Energy REC, Inc.	Averaging Plan	0.50	0.46			0.47	0.27
IN	Gibson	6113	1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.27			0.48	0.22
IN	Gibson	6113	2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.32			0.48	0.22
IN	Gibson	6113	3	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.29			0.48	0.22
IN	Gibson	6113	4	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.28			0.48	0.22
IN	Gibson	6113	5	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.29			0.48	0.22
IN	Harding Street Station (EW Stout)	990	50	Indianapolis Power & Light Company	Averaging Plan	0.45	0.32			0.45	0.26
IN	Harding Street Station (EW Stout)	990	60	Indianapolis Power & Light Company	Averaging Plan	0.45	0.27			0.45	0.26
IN	Harding Street Station (EW Stout)	990	70	Indianapolis Power & Light Company	Averaging Plan	0.45	0.19			0.45	0.26
IN	IPL Eagle Valley Generating Station	991	3	Indianapolis Power & Light Company	Averaging Plan	0.45	0.48			0.45	0.26

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IN	IPL Eagle Valley Generating Station	991	4	Indianapolis Power & Light Company	Averaging Plan	0.45	0.48			0.45	0.26
IN	IPL Eagle Valley Generating Station	991	5	Indianapolis Power & Light Company	Averaging Plan	0.45	0.30			0.45	0.26
IN	IPL Eagle Valley Generating Station	991	6	Indianapolis Power & Light Company	Averaging Plan	0.45	0.30			0.45	0.26
IN	Merom	6213	1SG1	Hoosier Energy REC, Inc.	Averaging Plan	0.46	0.20	0.50		0.47	0.27
IN	Merom	6213	2SG1	Hoosier Energy REC, Inc.	Averaging Plan	0.46	0.21	0.50		0.47	0.27
IN	Michigan City Generating Station	997	12	Northern Indiana Public Service Company	Averaging Plan	0.86	0.38			0.74	0.45
IN	Petersburg	994	1	Indianapolis Power & Light Company	Averaging Plan	0.45	0.27			0.45	0.26
IN	Petersburg	994	2	Indianapolis Power & Light Company	Averaging Plan	0.45	0.25			0.45	0.26
IN	Petersburg	994	3	Indianapolis Power & Light Company	Averaging Plan	0.45	0.26			0.45	0.26
IN	Petersburg	994	4	Indianapolis Power & Light Company	Averaging Plan	0.45	0.25			0.45	0.26
IN	R Gallagher	1008	1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.34			0.48	0.22
IN	R Gallagher	1008	2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.34			0.48	0.22
IN	R Gallagher	1008	3	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.34			0.48	0.22
IN	R Gallagher	1008	4	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.34			0.48	0.22

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IN	R M Schahfer Generating Station	6085	14	Northern Indiana Public Service Company	Averaging Plan	0.86	0.46			0.74	0.45
IN	R M Schahfer Generating Station	6085	15	Northern Indiana Public Service Company	Averaging Plan	0.46	0.27	0.50		0.74	0.45
IN	R M Schahfer Generating Station	6085	17	Northern Indiana Public Service Company	Early Election	0.40	0.17	0.45			
IN	R M Schahfer Generating Station	6085	18	Northern Indiana Public Service Company	Early Election	0.40	0.18	0.45			
IN	Rockport	6166	MB1	Indiana Michigan Power Company	Averaging Plan	0.46	0.25			0.56	0.34
IN	Rockport	6166	MB2	Indiana Michigan Power Company	Averaging Plan	0.46	0.25			0.56	0.34
IN	State Line Generating Station (IN)	981	3	State Line Energy, LLC	Averaging Plan	0.40	0.22	0.45		0.69	0.49
IN	State Line Generating Station (IN)	981	4	State Line Energy, LLC	Averaging Plan	0.86	0.65			0.69	0.49
IN	Tanners Creek	988	U1	Indiana Michigan Power Company	Averaging Plan	0.80	0.33			0.56	0.34
IN	Tanners Creek	988	U2	Indiana Michigan Power Company	Averaging Plan	0.80	0.33			0.56	0.34
IN	Tanners Creek	988	U3	Indiana Michigan Power Company	Averaging Plan	0.80	0.33			0.56	0.34
IN	Tanners Creek	988	U4	Indiana Michigan Power Company	Averaging Plan	0.86	0.26			0.56	0.34
IN	Wabash River Gen Station	1010	1	Duke Energy Corporation	Averaging Plan	0.50	0.08			0.48	0.22
IN	Wabash River Gen Station	1010	2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.36			0.48	0.22

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IN	Wabash River Gen Station	1010	3	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.36			0.48	0.22
IN	Wabash River Gen Station	1010	4	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.36			0.48	0.22
IN	Wabash River Gen Station	1010	5	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.36			0.48	0.22
IN	Wabash River Gen Station	1010	6	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.45	0.36			0.48	0.22
IN	Whitewater Valley	1040	1	City of Richmond	Early Election	0.46	0.34	0.50			
IN	Whitewater Valley	1040	2	City of Richmond	Early Election	0.40	0.34	0.45			
KS	Holcomb	108	SGU1	Sunflower Electric Power Corporation	Standard Limit	0.46	0.31				
KS	Jeffrey Energy Center	6068	1	Westar Energy, Inc.	Averaging Plan	0.40	0.41			0.40	0.30
KS	Jeffrey Energy Center	6068	2	Westar Energy, Inc.	Averaging Plan	0.40	0.36			0.40	0.30
KS	Jeffrey Energy Center	6068	3	Westar Energy, Inc.	Averaging Plan	0.40	0.16			0.40	0.30
KS	La Cygne	1241	1	Kansas City Power & Light Company	Averaging Plan	0.86	0.35			0.68	0.33
KS	La Cygne	1241	2	Kansas City Power & Light Company	Averaging Plan	0.50	0.31			0.68	0.33
KS	Lawrence Energy Center	1250	3	Westar Energy, Inc.	Averaging Plan	0.40	0.23			0.40	0.30
KS	Lawrence Energy Center	1250	4	Westar Energy, Inc.	Averaging Plan	0.40	0.34			0.40	0.30
KS	Lawrence Energy Center	1250	5	Westar Energy, Inc.	Averaging Plan	0.40	0.18			0.40	0.30
KS	Nearman Creek	6064	N1	Kansas City Board of Public Utilities	Early Election	0.46	0.43	0.50			

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KS	Quindaro	1295	1	Kansas City Board of Public Utilities	Standard Limit	0.86	0.78				
KS	Quindaro	1295	2	Kansas City Board of Public Utilities	Standard Limit	0.50	0.27				
KS	Riverton	1239	39	Empire District Electric Company	Early Election	0.46	0.43	0.50			
KS	Riverton	1239	40	Empire District Electric Company	Early Election	0.40	0.38	0.45			
KS	Tecumseh Energy Center	1252	10	Westar Energy, Inc.	Averaging Plan	0.40	0.35			0.40	0.30
KS	Tecumseh Energy Center	1252	9	Westar Energy, Inc.	Averaging Plan	0.40	0.37			0.40	0.30
KY	Big Sandy	1353	BSU1	Kentucky Power Company	Averaging Plan	0.46	0.42			0.56	0.34
KY	Big Sandy	1353	BSU2	Kentucky Power Company	Averaging Plan	0.46	0.42			0.56	0.34
KY	Cane Run	1363	4	Louisville Gas and Electric Company	Early Election	0.46	0.35	0.50			
KY	Cane Run	1363	5	Louisville Gas and Electric Company	Early Election	0.46	0.39	0.50			
KY	Cane Run	1363	6	Louisville Gas and Electric Company	Early Election	0.40	0.31	0.45			
KY	Coleman	1381	C1	Western Kentucky Energy Corporation	Averaging Plan	0.50	0.31			0.49	0.32
KY	Coleman	1381	C2	Western Kentucky Energy Corporation	Averaging Plan	0.50	0.31			0.49	0.32
KY	Coleman	1381	C3	Western Kentucky Energy Corporation	Averaging Plan	0.50	0.31			0.49	0.32
KY	D B Wilson	6823	W1	Western Kentucky Energy Corporation	Averaging Plan	0.46	0.34			0.49	0.32
KY	E W Brown	1355	1	Louisville Gas and Electric Company	Averaging Plan	0.50	0.47			0.45	0.28

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KY	E W Brown	1355	2	Louisville Gas and Electric Company	Averaging Plan	0.45	0.33			0.45	0.28
KY	E W Brown	1355	3	Louisville Gas and Electric Company	Averaging Plan	0.45	0.33			0.45	0.28
KY	East Bend	6018	2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.50	0.29			0.48	0.22
KY	Elmer Smith	1374	2	Owensboro Municipal Utilities	Standard Limit	0.45	0.24				
KY	Ghent	1356	1	Kentucky Utilities Company	Averaging Plan	0.45	0.23			0.45	0.28
KY	Ghent	1356	2	Kentucky Utilities Company	Averaging Plan	0.40	0.28			0.45	0.28
KY	Ghent	1356	3	Kentucky Utilities Company	Averaging Plan	0.46	0.25			0.45	0.28
KY	Ghent	1356	4	Kentucky Utilities Company	Averaging Plan	0.46	0.22			0.45	0.28
KY	Green River	1357	4	Kentucky Utilities Company	Averaging Plan	0.46	0.39			0.45	0.28
KY	Green River	1357	5	Kentucky Utilities Company	Averaging Plan	0.50	0.38			0.45	0.28
KY	H L Spurlock	6041	1	East Kentucky Power Cooperative	Standard Limit	0.50	0.26				
KY	H L Spurlock	6041	2	East Kentucky Power Cooperative	Early Election	0.40	0.17	0.45			
KY	HMP&L Station 2	1382	H1	WKE Station Two, Inc.	Averaging Plan	0.50	0.32			0.49	0.32
KY	HMP&L Station 2	1382	H2	WKE Station Two, Inc.	Averaging Plan	0.50	0.30			0.49	0.32
KY	John S. Cooper	1384	1	East Kentucky Power Cooperative	Standard Limit	0.50	0.48				

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KY	John S. Cooper	1384	2	East Kentucky Power Cooperative	Standard Limit	0.50	0.48				
KY	Mill Creek	1364	1	Louisville Gas and Electric Company	Early Election	0.40	0.32	0.45			
KY	Mill Creek	1364	2	Louisville Gas and Electric Company	Early Election	0.40	0.32	0.45			
KY	Mill Creek	1364	3	Louisville Gas and Electric Company	Early Election	0.46	0.22	0.50			
KY	Mill Creek	1364	4	Louisville Gas and Electric Company	Early Election	0.46	0.22	0.50			
KY	Paradise	1378	1	Tennessee Valley Authority	Averaging Plan	0.86	0.47			0.56	0.38
KY	Paradise	1378	2	Tennessee Valley Authority	Averaging Plan	0.86	0.66			0.56	0.38
KY	Paradise	1378	3	Tennessee Valley Authority	Averaging Plan	0.86	0.71			0.56	0.38
KY	R D Green	6639	G1	Western Kentucky Energy Corporation	Averaging Plan	0.50	0.29			0.49	0.32
KY	R D Green	6639	G2	Western Kentucky Energy Corporation	Averaging Plan	0.50	0.28			0.49	0.32
KY	Robert Reid	1383	R1	WKE Station Two, Inc.	Averaging Plan	0.46	0.47			0.49	0.32
KY	Shawnee	1379	1	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	2	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	3	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	4	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38



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KY	Shawnee	1379	5	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	6	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	7	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	8	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Shawnee	1379	9	Tennessee Valley Authority	Averaging Plan	0.46	0.37			0.56	0.38
KY	Trimble County	6071	1	Louisville Gas and Electric Company	Early Election	0.40	0.21	0.45			
KY	Tyrone	1361	5	Kentucky Utilities Company	Averaging Plan	0.46	0.42			0.45	0.28
KY	William C. Dale	1385	3	East Kentucky Power Cooperative	Early Election	0.46	0.40	0.50			
KY	William C. Dale	1385	4	East Kentucky Power Cooperative	Early Election	0.46	0.40	0.50			
LA	Big Cajun 2	6055	2B1	Louisiana Generating, LLC	Early Election	0.46	0.20	0.50			
LA	Big Cajun 2	6055	2B2	Louisiana Generating, LLC	Early Election	0.46	0.20	0.50			
LA	Big Cajun 2	6055	2B3	Louisiana Generating, LLC	Early Election	0.46	0.15	0.50			
LA	Dolet Hills Power Station	51	1	CLECO Power, LLC	Early Election	0.46	0.25	0.50			
LA	R S Nelson	1393	6	Entergy Corporation	Early Election	0.40	0.22	0.45			
LA	Rodemacher Power Station (6190)	6190	2	CLECO Power, LLC	Early Election	0.46	0.38	0.50			
MA	Brayton Point	1619	1	Dominion Energy Brayton Point, LLC	Standard Limit	0.40	0.10				

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MA	Brayton Point	1619	2	Dominion Energy Brayton Point, LLC	Standard Limit	0.40	0.23				
MA	Brayton Point	1619	3	Dominion Energy Brayton Point, LLC	Standard Limit	0.46	0.11				
MA	Mount Tom	1606	1	FirstLight Power Resources Services, LLC	Standard Limit	0.46	0.11				
MA	Salem Harbor	1626	1	Dominion Energy Salem Harbor, LLC	Standard Limit	0.46	0.14				
MA	Salem Harbor	1626	2	Dominion Energy Salem Harbor, LLC	Standard Limit	0.46	0.13				
MA	Salem Harbor	1626	3	Dominion Energy Salem Harbor, LLC	Standard Limit	0.46	0.16				
MA	Somerset	1613	7	Somerset Power, LLC	Standard Limit	0.40	0.00				
MA	Somerset	1613	8	Somerset Power, LLC	Standard Limit	0.40	0.12				
MD	Brandon Shores	602	1	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.26			0.56	0.35
MD	Brandon Shores	602	1	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.26			0.56	0.35
MD	Brandon Shores	602	1	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.26			0.56	0.35
MD	Brandon Shores	602	2	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.38			0.56	0.35
MD	Brandon Shores	602	2	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.38			0.56	0.35
MD	Brandon Shores	602	2	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.38			0.56	0.35
MD	C P Crane	1552	1	Constellation Power Source Generation Inc.	Averaging Plan	0.86	0.57			0.56	0.35

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MD	C P Crane	1552	2	Constellation Power Source Generation Inc.	Averaging Plan	0.86	0.51			0.56	0.35
MD	Herbert A Wagner	1554	2	Constellation Power Source Generation Inc.	Averaging Plan	0.46	0.45			0.56	0.35
MD	Herbert A Wagner	1554	3	Constellation Power Source Generation Inc.	Averaging Plan	0.68	0.21			0.56	0.35
MD	Mirant Chalk Point	1571	1	Mirant Chalk Point, LLC	Standard Limit	0.50	0.45				
MD	Mirant Chalk Point	1571	2	Mirant Chalk Point, LLC	Standard Limit	0.50	0.45				
MD	Mirant Dickerson	1572	1	Mirant Mid-Atlantic, LLC	Standard Limit	0.40	0.34				
MD	Mirant Dickerson	1572	2	Mirant Mid-Atlantic, LLC	Standard Limit	0.40	0.34				
MD	Mirant Dickerson	1572	3	Mirant Mid-Atlantic, LLC	Standard Limit	0.40	0.34				
MD	Mirant Morgantown	1573	1	Mirant Mid-Atlantic, LLC	Alternative Emissions Limit	0.45	0.19		0.70		
MD	Mirant Morgantown	1573	2	Mirant Mid-Atlantic, LLC	Alternative Emissions Limit	0.45	0.36		0.70		
MD	R. Paul Smith Power Station	1570	11	Allegheny Energy Supply Company, LLC	Averaging Plan	0.45	0.36			0.56	0.34
MD	R. Paul Smith Power Station	1570	9	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.43			0.56	0.34
MI	B C Cobb	1695	1	Consumers Energy Company	Averaging Plan	0.40	0.05			0.47	0.23
MI	B C Cobb	1695	2	Consumers Energy Company	Averaging Plan	0.40	0.04			0.47	0.23
MI	B C Cobb	1695	3	Consumers Energy Company	Averaging Plan	0.40	0.06			0.47	0.23
MI	B C Cobb	1695	4	Consumers Energy Company	Averaging Plan	0.40	0.38			0.47	0.23
MI	B C Cobb	1695	5	Consumers Energy Company	Averaging Plan	0.40	0.17			0.47	0.23

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MI	Belle River	6034	1	Detroit Edison Company	Averaging Plan	0.46	0.22			0.55	0.30
MI	Belle River	6034	2	Detroit Edison Company	Averaging Plan	0.46	0.17			0.55	0.30
MI	Dan E Karn	1702	1	Consumers Energy Company	Averaging Plan	0.40	0.26			0.47	0.23
MI	Dan E Karn	1702	2	Consumers Energy Company	Averaging Plan	0.46	0.17			0.47	0.23
MI	Eckert Station	1831	1	Lansing Board of Water and Light	Averaging Plan	0.46	0.21			0.45	0.20
MI	Eckert Station	1831	2	Lansing Board of Water and Light	Averaging Plan	0.40	0.25			0.45	0.20
MI	Eckert Station	1831	3	Lansing Board of Water and Light	Averaging Plan	0.40	0.16			0.45	0.20
MI	Eckert Station	1831	4	Lansing Board of Water and Light	Averaging Plan	0.46	0.20			0.45	0.20
MI	Eckert Station	1831	5	Lansing Board of Water and Light	Averaging Plan	0.46	0.20			0.45	0.20
MI	Eckert Station	1831	6	Lansing Board of Water and Light	Averaging Plan	0.46	0.22			0.45	0.20
MI	Endicott Generating	4259	1	Michigan South Central Power Agency	Standard Limit	0.46	0.18				
MI	Erickson	1832	1	Lansing Board of Water and Light	Averaging Plan	0.46	0.20			0.45	0.20
MI	Harbor Beach	1731	1	Detroit Edison Company	Averaging Plan	0.46	0.61			0.55	0.30
MI	J B Sims	1825	3	Grand Haven Board of Light and Power	Early Election	0.46	0.25	0.50			
MI	J C Weadock	1720	7	Consumers Energy Company	Averaging Plan	0.40	0.34			0.47	0.23
MI	J C Weadock	1720	8	Consumers Energy Company	Averaging Plan	0.40	0.32			0.47	0.23

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MI	J H Campbell	1710	1	Consumers Energy Company	Averaging Plan	0.45	0.17			0.47	0.23
MI	J H Campbell	1710	2	Consumers Energy Company	Averaging Plan	0.68	0.32			0.47	0.23
MI	J H Campbell	1710	3	Consumers Energy Company	Averaging Plan	0.46	0.17			0.47	0.23
MI	J R Whiting	1723	1	Consumers Energy Company	Averaging Plan	0.46	0.24			0.47	0.23
MI	J R Whiting	1723	2	Consumers Energy Company	Averaging Plan	0.46	0.24			0.47	0.23
MI	J R Whiting	1723	3	Consumers Energy Company	Averaging Plan	0.46	0.23			0.47	0.23
MI	James De Young	1830	5	City of Holland	Standard Limit	0.46	0.46				
MI	Marysville	1732	10	Detroit Edison Company	Averaging Plan	0.40	0.00			0.55	0.30
MI	Marysville	1732	11	Detroit Edison Company	Averaging Plan	0.40	0.00			0.55	0.30
MI	Marysville	1732	12	Detroit Edison Company	Averaging Plan	0.40	0.00			0.55	0.30
MI	Marysville	1732	9	Detroit Edison Company	Averaging Plan	0.40	0.00			0.55	0.30
MI	Monroe	1733	1	Detroit Edison Company	Averaging Plan	0.68	0.41			0.55	0.30
MI	Monroe	1733	2	Detroit Edison Company	Averaging Plan	0.68	0.41			0.55	0.30
MI	Monroe	1733	3	Detroit Edison Company	Averaging Plan	0.68	0.30			0.55	0.30
MI	Monroe	1733	4	Detroit Edison Company	Averaging Plan	0.68	0.30			0.55	0.30
MI	Presque Isle	1769	3	Wisconsin Electric Power Company	Averaging Plan	0.40	0.31			0.46	0.17
MI	Presque Isle	1769	4	Wisconsin Electric Power Company	Averaging Plan	0.40	0.31			0.46	0.17
MI	Presque Isle	1769	5	Wisconsin Electric Power Company	Averaging Plan	0.46	0.38			0.46	0.17
MI	Presque Isle	1769	6	Wisconsin Electric Power Company	Averaging Plan	0.46	0.37			0.46	0.17

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MI	Presque Isle	1769	7	Wisconsin Electric Power Company	Averaging Plan	0.46	0.40			0.46	0.17
MI	Presque Isle	1769	8	Wisconsin Electric Power Company	Averaging Plan	0.46	0.41			0.46	0.17
MI	Presque Isle	1769	9	Wisconsin Electric Power Company	Averaging Plan	0.46	0.41			0.46	0.17
MI	River Rouge	1740	2	Detroit Edison Company	Averaging Plan	0.40	0.23			0.55	0.30
MI	River Rouge	1740	3	Detroit Edison Company	Averaging Plan	0.46	0.34			0.55	0.30
MI	Shiras	1843	3	Marquette Board of Light and Power	Standard Limit	0.40	0.14				
MI	St. Clair	1743	1	Detroit Edison Company	Averaging Plan	0.46	0.40			0.55	0.30
MI	St. Clair	1743	2	Detroit Edison Company	Averaging Plan	0.46	0.37			0.55	0.30
MI	St. Clair	1743	3	Detroit Edison Company	Averaging Plan	0.46	0.40			0.55	0.30
MI	St. Clair	1743	4	Detroit Edison Company	Averaging Plan	0.46	0.35			0.55	0.30
MI	St. Clair	1743	6	Detroit Edison Company	Averaging Plan	0.40	0.15			0.55	0.30
MI	St. Clair	1743	7	Detroit Edison Company	Averaging Plan	0.40	0.18			0.55	0.30
MI	Trenton Channel	1745	16	Detroit Edison Company	Averaging Plan	0.40	0.42			0.55	0.30
MI	Trenton Channel	1745	17	Detroit Edison Company	Averaging Plan	0.40	0.42			0.55	0.30
MI	Trenton Channel	1745	18	Detroit Edison Company	Averaging Plan	0.40	0.42			0.55	0.30
MI	Trenton Channel	1745	19	Detroit Edison Company	Averaging Plan	0.40	0.42			0.55	0.30
MI	Trenton Channel	1745	9A	Detroit Edison Company	Averaging Plan	0.40	0.18			0.55	0.30
MI	Wyandotte	1866	7	Wyandotte Municipal Services	Standard Limit	0.46	0.38				
MN	Allen S King	1915	1	Northern States Power (Xcel Energy)	Averaging Plan	0.86	0.80			0.50	0.41
MN	Black Dog	1904	3	Northern States Power (Xcel Energy)	Averaging Plan	0.46	0.67			0.50	0.41

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MN	Black Dog	1904	4	Northern States Power (Xcel Averaging Plan Energy)		0.46	0.67			0.50	0.41
MN	Boswell Energy Center	1893	1	Minnesota Power, Inc.	Averaging Plan	0.46	0.43			0.41	0.35
MN	Boswell Energy Center	1893	2	Minnesota Power, Inc.	Averaging Plan	0.46	0.43			0.41	0.35
MN	Boswell Energy Center	1893	3	Minnesota Power, Inc.	Averaging Plan	0.40	0.38	0.45		0.41	0.35
MN	Boswell Energy Center	1893	4	Minnesota Power, Inc.	Averaging Plan	0.40	0.33			0.41	0.35
MN	High Bridge	1912	3	Northern States Power (Xcel Averaging Plan Energy)		0.50	0.57			0.50	0.41
MN	High Bridge	1912	4	Northern States Power (Xcel Averaging Plan Energy)		0.50	0.57			0.50	0.41
MN	High Bridge	1912	5	Northern States Power (Xcel Averaging Plan Energy)		0.50	0.57			0.50	0.41
MN	High Bridge	1912	6	Northern States Power (Xcel Averaging Plan Energy)		0.50	0.57			0.50	0.41
MN	Hoot Lake	1943	2	Otter Tail Power Company	Early Election	0.40	0.44	0.45			
MN	Hoot Lake	1943	3	Otter Tail Power Company	Standard Limit	0.46	0.19				
MN	Laskin Energy Center	1891	1	Minnesota Power, Inc.	Averaging Plan	0.40	0.22			0.41	0.35
MN	Laskin Energy Center	1891	2	Minnesota Power, Inc.	Averaging Plan	0.40	0.22			0.41	0.35
MN	Minnesota Valley	1918	4	Northern States Power (Xcel Averaging Plan Energy)		0.46	0.00			0.50	0.41
MN	Northeast Station	1961	NEPP	City of Austin	Standard Limit	0.46	0.39				
MN	Riverside (1927)	1927	6	Northern States Power (Xcel Averaging Plan Energy)		0.46	0.83			0.50	0.41
MN	Riverside (1927)	1927	7	Northern States Power (Xcel Averaging Plan Energy)		0.46	0.83			0.50	0.41
MN	Riverside (1927)	1927	8	Northern States Power (Xcel Averaging Plan Energy)		0.86	0.95			0.50	0.41

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MN	Sherburne County	6090	1	Northern States Power (Xcel Averaging Plan Energy)		0.45	0.20			0.50	0.41
MN	Sherburne County	6090	2	Northern States Power (Xcel Averaging Plan Energy)		0.45	0.20			0.50	0.41
MN	Sherburne County	6090	3	Northern States Power (Xcel Averaging Plan Energy)		0.46	0.38			0.50	0.41
MN	Silver Lake	2008	4	Rochester Public Utilities	Standard Limit	0.46	0.38				
MN	Taconite Harbor Energy Center	10075	1	Minnesota Power, Inc.	Averaging Plan	0.40	0.42			0.41	0.35
MN	Taconite Harbor Energy Center	10075	2	Minnesota Power, Inc.	Averaging Plan	0.40	0.26			0.41	0.35
MN	Taconite Harbor Energy Center	10075	3	Minnesota Power, Inc.	Averaging Plan	0.40	0.37			0.41	0.35
MO	Asbury	2076	1	Empire District Electric Company	Standard Limit	0.86	0.70				
MO	Blue Valley	2132	3	Independence Power and Light	Standard Limit	0.40	0.30				
MO	Iatan	6065	1	Kansas City Power & Light Company	Standard Limit	0.50	0.30				
MO	James River	2161	3	City Utilities of Springfield, MO	Averaging Plan	0.50	0.27			0.50	0.33
MO	James River	2161	4	City Utilities of Springfield, MO	Averaging Plan	0.50	0.27			0.50	0.33
MO	James River	2161	5	City Utilities of Springfield, MO	Averaging Plan	0.50	0.32			0.50	0.33
MO	Labadie	2103	1	Union Electric Company	Averaging Plan	0.45	0.11			0.52	0.14
MO	Labadie	2103	2	Union Electric Company	Averaging Plan	0.45	0.11			0.52	0.14
MO	Labadie	2103	3	Union Electric Company	Averaging Plan	0.45	0.11			0.52	0.14
MO	Labadie	2103	4	Union Electric Company	Averaging Plan	0.45	0.11			0.52	0.14



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MO	Meramec	2104	1	Union Electric Company	Averaging Plan	0.45	0.12			0.52	0.14
MO	Meramec	2104	2	Union Electric Company	Averaging Plan	0.45	0.11			0.52	0.14
MO	Meramec	2104	3	Union Electric Company	Averaging Plan	0.50	0.20			0.52	0.14
MO	Meramec	2104	4	Union Electric Company	Averaging Plan	0.50	0.19			0.52	0.14
MO	Montrose	2080	1	Kansas City Power & Light Company	Standard Limit	0.45	0.33				
MO	Montrose	2080	2	Kansas City Power & Light Company	Standard Limit	0.45	0.34				
MO	Montrose	2080	3	Kansas City Power & Light Company	Standard Limit	0.45	0.34				
MO	New Madrid Power Plant	2167	1	Associated Electric Cooperative, Inc.	Averaging Plan	0.86	0.60			0.76	0.52
MO	New Madrid Power Plant	2167	2	Associated Electric Cooperative, Inc.	Averaging Plan	0.86	0.66			0.76	0.52
MO	Rush Island	6155	1	Union Electric Company	Averaging Plan	0.45	0.09			0.52	0.14
MO	Rush Island	6155	2	Union Electric Company	Averaging Plan	0.45	0.19			0.52	0.14
MO	Sibley	2094	3	KCP&L Greater Missouri Operations Company	Standard Limit	0.86	0.59				
MO	Sikeston	6768	1	Sikeston Bd. of Municipal Utilities	Early Election	0.46	0.24	0.50			
MO	Sioux	2107	1	Union Electric Company	Averaging Plan	0.86	0.22			0.52	0.14
MO	Sioux	2107	2	Union Electric Company	Averaging Plan	0.86	0.20			0.52	0.14
MO	Southwest	6195	1	City Utilities of Springfield, MO	Averaging Plan	0.50	0.37			0.50	0.33
MO	Thomas Hill Energy Center	2168	MB1	Associated Electric Cooperative, Inc.	Averaging Plan	0.86	0.61			0.76	0.52
MO	Thomas Hill Energy Center	2168	MB2	Associated Electric Cooperative, Inc.	Averaging Plan	0.86	0.68			0.76	0.52

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MO	Thomas Hill Energy Center	2168	MB3	Associated Electric Cooperative, Inc.	Averaging Plan	0.50	0.20			0.76	0.52
MS	Daniel Electric Generating Plant	6073	1	Mississippi Power Company	Averaging Plan	0.45	0.35			0.46	0.26
MS	Daniel Electric Generating Plant	6073	2	Mississippi Power Company	Averaging Plan	0.45	0.32			0.46	0.26
MS	R D Morrow Senior Generating Plant	6061	1	South Mississippi Elec. Power Assoc.	Averaging Plan	0.50	0.47			0.50	0.47
MS	R D Morrow Senior Generating Plant	6061	2	South Mississippi Elec. Power Assoc.	Averaging Plan	0.50	0.47			0.50	0.47
MS	Watson Electric Generating Plant	2049	4	Mississippi Power Company	Averaging Plan	0.50	0.53			0.46	0.26
MS	Watson Electric Generating Plant	2049	5	Mississippi Power Company	Averaging Plan	0.50	0.67			0.46	0.26
MT	Colstrip	6076	1	P P & L Montana, LLC	Early Election	0.40	0.31	0.45			
MT	Colstrip	6076	2	P P & L Montana, LLC	Early Election	0.40	0.30	0.45			
MT	Colstrip	6076	3	P P & L Montana, LLC	Early Election	0.40	0.27	0.45			
MT	Colstrip	6076	4	P P & L Montana, LLC	Early Election	0.40	0.41	0.45			
MT	J E Corette	2187	2	P P & L Montana, LLC	Standard Limit	0.40	0.24				
MT	Lewis & Clark	6089	B1	Montana Dakota Utilities Company	Early Election	0.40	0.38	0.45			
NC	Asheville	2706	1	Carolina Power & Light Company	Averaging Plan	0.46	0.21			0.44	0.27
NC	Asheville	2706	2	Carolina Power & Light Company	Averaging Plan	0.46	0.06			0.44	0.27
NC	Belews Creek	8042	1	Duke Energy Corporation	Averaging Plan	0.68	0.05			0.48	0.22
NC	Belews Creek	8042	2	Duke Energy Corporation	Averaging Plan	0.68	0.06			0.48	0.22
NC	Buck	2720	5	Duke Energy Corporation	Averaging Plan	0.40	0.25			0.48	0.22
NC	Buck	2720	6	Duke Energy Corporation	Averaging Plan	0.40	0.25			0.48	0.22

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NC	Buck	2720	7	Duke Energy Corporation	Averaging Plan	0.40	0.31			0.48	0.22
NC	Buck	2720	8	Duke Energy Corporation	Averaging Plan	0.40	0.15			0.48	0.22
NC	Buck	2720	9	Duke Energy Corporation	Averaging Plan	0.40	0.16			0.48	0.22
NC	Cape Fear	2708	5	Carolina Power & Light Company	Averaging Plan	0.40	0.22			0.44	0.27
NC	Cape Fear	2708	6	Carolina Power & Light Company	Averaging Plan	0.40	0.23			0.44	0.27
NC	Cliffside	2721	1	Duke Energy Corporation	Averaging Plan	0.40	0.42			0.48	0.22
NC	Cliffside	2721	2	Duke Energy Corporation	Averaging Plan	0.40	0.38			0.48	0.22
NC	Cliffside	2721	3	Duke Energy Corporation	Averaging Plan	0.40	0.38			0.48	0.22
NC	Cliffside	2721	4	Duke Energy Corporation	Averaging Plan	0.40	0.40			0.48	0.22
NC	Cliffside	2721	5	Duke Energy Corporation	Averaging Plan	0.40	0.07			0.48	0.22
NC	Dan River	2723	1	Duke Energy Corporation	Averaging Plan	0.40	0.34			0.48	0.22
NC	Dan River	2723	2	Duke Energy Corporation	Averaging Plan	0.40	0.23			0.48	0.22
NC	Dan River	2723	3	Duke Energy Corporation	Averaging Plan	0.40	0.22			0.48	0.22
NC	G G Allen	2718	1	Duke Energy Corporation	Averaging Plan	0.40	0.18			0.48	0.22
NC	G G Allen	2718	2	Duke Energy Corporation	Averaging Plan	0.40	0.17			0.48	0.22
NC	G G Allen	2718	3	Duke Energy Corporation	Averaging Plan	0.40	0.17			0.48	0.22
NC	G G Allen	2718	4	Duke Energy Corporation	Averaging Plan	0.40	0.19			0.48	0.22
NC	G G Allen	2718	5	Duke Energy Corporation	Averaging Plan	0.40	0.22			0.48	0.22
NC	H F Lee Steam Electric Plant	2709	1	Carolina Power & Light Company	Averaging Plan	0.40	0.49			0.44	0.27
NC	H F Lee Steam Electric Plant	2709	2	Carolina Power & Light Company	Averaging Plan	0.46	0.33			0.44	0.27
NC	H F Lee Steam Electric Plant	2709	3	Carolina Power & Light Company	Averaging Plan	0.46	0.31			0.44	0.27
NC	L V Sutton	2713	1	Carolina Power & Light Company	Averaging Plan	0.40	0.37			0.44	0.27

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NC	L V Sutton	2713	2	Carolina Power & Light Company	Averaging Plan	0.46	0.37			0.44	0.27
NC	L V Sutton	2713	3	Carolina Power & Light Company	Averaging Plan	0.46	0.31			0.44	0.27
NC	Marshall	2727	1	Duke Energy Corporation	Averaging Plan	0.40	0.18			0.48	0.22
NC	Marshall	2727	2	Duke Energy Corporation	Averaging Plan	0.40	0.24			0.48	0.22
NC	Marshall	2727	3	Duke Energy Corporation	Averaging Plan	0.40	0.22			0.48	0.22
NC	Marshall	2727	4	Duke Energy Corporation	Averaging Plan	0.40	0.20			0.48	0.22
NC	Mayo	6250	1A	Carolina Power & Light Company	Averaging Plan	0.46	0.07			0.44	0.27
NC	Mayo	6250	1B	Carolina Power & Light Company	Averaging Plan	0.46	0.07			0.44	0.27
NC	Riverbend	2732	10	Duke Energy Corporation	Averaging Plan	0.40	0.18			0.48	0.22
NC	Riverbend	2732	7	Duke Energy Corporation	Averaging Plan	0.40	0.20			0.48	0.22
NC	Riverbend	2732	8	Duke Energy Corporation	Averaging Plan	0.40	0.22			0.48	0.22
NC	Riverbend	2732	9	Duke Energy Corporation	Averaging Plan	0.40	0.17			0.48	0.22
NC	Roxboro	2712	1	Carolina Power & Light Company	Averaging Plan	0.46	0.09			0.44	0.27
NC	Roxboro	2712	2	Carolina Power & Light Company	Averaging Plan	0.40	0.06			0.44	0.27
NC	Roxboro	2712	3A	Carolina Power & Light Company	Averaging Plan	0.46	0.12			0.44	0.27
NC	Roxboro	2712	3B	Carolina Power & Light Company	Averaging Plan	0.46	0.12			0.44	0.27
NC	Roxboro	2712	4A	Carolina Power & Light Company	Averaging Plan	0.46	0.09			0.44	0.27
NC	Roxboro	2712	4B	Carolina Power & Light Company	Averaging Plan	0.46	0.09			0.44	0.27

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NC	W H Weatherspoon	2716	1	Carolina Power & Light Company	Averaging Plan	0.46	0.82			0.44	0.27
NC	W H Weatherspoon	2716	2	Carolina Power & Light Company	Averaging Plan	0.46	0.82			0.44	0.27
NC	W H Weatherspoon	2716	3	Carolina Power & Light Company	Averaging Plan	0.40	0.42			0.44	0.27
ND	Antelope Valley	6469	B1	Basin Electric Power Cooperative	Early Election	0.40	0.38	0.45			
ND	Antelope Valley	6469	B2	Basin Electric Power Cooperative	Early Election	0.40	0.32	0.45			
ND	Coal Creek	6030	1	Great River Energy	Standard Limit	0.40	0.25				
ND	Coal Creek	6030	2	Great River Energy	Standard Limit	0.40	0.20				
ND	Coyote	8222	B1	Otter Tail Power Company	Standard Limit	0.86	0.69				
ND	Leland Olds	2817	1	Basin Electric Power Cooperative	Early Election	0.46	0.31	0.50			
ND	Leland Olds	2817	2	Basin Electric Power Cooperative	Standard Limit	0.86	0.50				
ND	Milton R Young	2823	B1	Minnkota Power Cooperative, Inc.	Standard Limit	0.86	0.84				
ND	Milton R Young	2823	B2	Minnkota Power Cooperative, Inc.	Standard Limit	0.86	0.86				
ND	Stanton	2824	1	Great River Energy	Standard Limit	0.46	0.22				
ND	Stanton	2824	10	Great River Energy	Early Election	0.40	0.28	0.45			
NE	Gerald Gentleman Station	6077	1	Nebraska Public Power District	Early Election	0.46	0.21	0.50			
NE	Gerald Gentleman Station	6077	2	Nebraska Public Power District	Early Election	0.46	0.30	0.50			

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NE	Gerald Whelan Energy Center	60	1	Nebraska Municipal Energy Agency	Early Election	0.40	0.30	0.45			
NE	Lon D Wright Power Plant	2240	8	City of Fremont	Standard Limit	0.46	0.20				
NE	Nebraska City Station	6096	1	Omaha Public Power District	Early Election	0.46	0.43	0.50			
NE	North Omaha Station	2291	1	Omaha Public Power District	Standard Limit	0.40	0.31				
NE	North Omaha Station	2291	2	Omaha Public Power District	Standard Limit	0.40	0.31				
NE	North Omaha Station	2291	3	Omaha Public Power District	Standard Limit	0.40	0.31				
NE	North Omaha Station	2291	4	Omaha Public Power District	Early Election	0.40	0.34	0.45			
NE	North Omaha Station	2291	5	Omaha Public Power District	Standard Limit	0.46	0.34				
NE	Platte	59	1	Grand Island Utilities Dept.	Early Election	0.40	0.35	0.45			
NH	Merrimack	2364	2	Public Service of New Hampshire	Standard Limit	0.86	0.19				
NH	Schiller	2367	4	Public Service of New Hampshire	Standard Limit	0.46	0.19				
NH	Schiller	2367	5	Public Service of New Hampshire	Standard Limit	0.46	0.07				
NH	Schiller	2367	6	Public Service of New Hampshire	Standard Limit	0.46	0.22				
NJ	B L England	2378	2	North American Energy Services	Standard Limit	0.86	0.53				
NJ	Deepwater	2384	8	Conectiv Atlantic Generation, LLC	Standard Limit	0.46	0.41				
NJ	Hudson Generating Station	2403	2	PSEG	Averaging Plan	0.46	0.26			0.67	0.16

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NJ	Mercer Generating Station	2408	1	PSEG	Averaging Plan	0.84	0.09			0.67	0.16
NJ	Mercer Generating Station	2408	2	PSEG	Averaging Plan	0.84	0.09			0.67	0.16
NM	Escalante	87	1	Tri-State Generation & Transmission	Early Election	0.40	0.35	0.45			
NM	Four Corners Steam Elec Station	2442	1	Arizona Public Service Company	Averaging Plan	0.46	0.78			0.60	0.55
NM	Four Corners Steam Elec Station	2442	2	Arizona Public Service Company	Averaging Plan	0.46	0.65			0.60	0.55
NM	Four Corners Steam Elec Station	2442	3	Arizona Public Service Company	Averaging Plan	0.46	0.61			0.60	0.55
NM	Four Corners Steam Elec Station	2442	4	Arizona Public Service Company	Averaging Plan	0.68	0.48			0.60	0.55
NM	Four Corners Steam Elec Station	2442	5	Arizona Public Service Company	Averaging Plan	0.68	0.49			0.60	0.55
NM	San Juan	2451	1	Public Service Company of New Mexico	Averaging Plan	0.46	0.44			0.46	0.43
NM	San Juan	2451	2	Public Service Company of New Mexico	Averaging Plan	0.46	0.46			0.46	0.43
NM	San Juan	2451	3	Public Service Company of New Mexico	Averaging Plan	0.46	0.42			0.46	0.43
NM	San Juan	2451	4	Public Service Company of New Mexico	Averaging Plan	0.46	0.41			0.46	0.43
NV	Mohave	2341	1	Southern California Edison Company	Early Election	0.40	0.00	0.45			
NV	Mohave	2341	2	Southern California Edison Company	Early Election	0.40	0.00	0.45			
NV	North Valmy	8224	1	Sierra Pacific Power Company	Early Election	0.46	0.34	0.50			
NV	North Valmy	8224	2	Sierra Pacific Power Company	Early Election	0.46	0.41	0.50			

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NV	Reid Gardner	2324	1	Nevada Power Company	Averaging Plan	0.46	0.38			0.46	0.32
NV	Reid Gardner	2324	2	Nevada Power Company	Averaging Plan	0.46	0.40			0.46	0.32
NV	Reid Gardner	2324	3	Nevada Power Company	Averaging Plan	0.46	0.28			0.46	0.32
NV	Reid Gardner	2324	4	Nevada Power Company	Averaging Plan	0.46	0.27			0.46	0.32
NY	AES Cayuga, LLC	2535	1	AES Cayuga, LLC	Averaging Plan	0.45	0.22			0.45	0.21
NY	AES Cayuga, LLC	2535	2	AES Cayuga, LLC	Averaging Plan	0.45	0.22			0.45	0.21
NY	AES Greenidge	2527	4	AES Greenidge, LLC	Averaging Plan	0.46	0.65			0.45	0.21
NY	AES Greenidge	2527	5	AES Greenidge, LLC	Averaging Plan	0.46	0.65			0.45	0.21
NY	AES Greenidge	2527	6	AES Greenidge, LLC	Averaging Plan	0.45	0.20			0.45	0.21
NY	AES Somerset (Kintigh )	6082	1	AES Somerset, LLC	Averaging Plan	0.46	0.19			0.45	0.21
NY	AES Westover (Goudey)	2526	11	AES Westover, LLC	Averaging Plan	0.46	0.30			0.45	0.21
NY	AES Westover (Goudey)	2526	12	AES Westover, LLC	Averaging Plan	0.46	0.30			0.45	0.21
NY	AES Westover (Goudey)	2526	13	AES Westover, LLC	Averaging Plan	0.40	0.30			0.45	0.21
NY	Dunkirk	2554	1	NRG Dunkirk Operations, Inc.	Early Election	0.40	0.15	0.45			
NY	Dunkirk	2554	2	NRG Dunkirk Operations, Inc.	Early Election	0.40	0.16	0.45			
NY	Dunkirk	2554	3	NRG Dunkirk Operations, Inc.	Standard Limit	0.45	0.16				
NY	Dunkirk	2554	4	NRG Dunkirk Operations, Inc.	Standard Limit	0.45	0.16				
NY	Dynergy Danskammer	2480	3	Dynergy Power Corporation	Averaging Plan	0.40	0.23			0.40	0.28
NY	Dynergy Danskammer	2480	4	Dynergy Power Corporation	Averaging Plan	0.40	0.31			0.40	0.28
NY	Huntley Power	2549	65	Huntley Power, LLC	Standard Limit	0.84	0.57				
NY	Huntley Power	2549	66	Huntley Power, LLC	Standard Limit	0.84	0.57				
NY	Huntley Power	2549	67	Huntley Power, LLC	Early Election	0.40	0.15	0.45			



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NY	Huntley Power	2549	68	Huntley Power, LLC	Early Election	0.40	0.15	0.45			
NY	Lovett Generating Station	2629	4	Mirant Lovett, LLC	Standard Limit	0.46	0.33				
NY	Lovett Generating Station	2629	5	Mirant Lovett, LLC	Standard Limit	0.46	0.36				
NY	Rochester 7 - Russell Station	2642	1	Rochester Gas & Electric Corporation	Averaging Plan	0.40	0.38			0.40	0.32
NY	Rochester 7 - Russell Station	2642	2	Rochester Gas & Electric Corporation	Averaging Plan	0.40	0.38			0.40	0.32
NY	Rochester 7 - Russell Station	2642	3	Rochester Gas & Electric Corporation	Averaging Plan	0.40	0.28			0.40	0.32
NY	Rochester 7 - Russell Station	2642	4	Rochester Gas & Electric Corporation	Averaging Plan	0.40	0.28			0.40	0.32
NY	S A Carlson	2682	10	Jamestown Board of Public Utilities	Early Election	0.46	0.43	0.50			
NY	S A Carlson	2682	11	Jamestown Board of Public Utilities	Early Election	0.46	0.00	0.50			
NY	S A Carlson	2682	12	Jamestown Board of Public Utilities	Early Election	0.46	0.41	0.50			
NY	S A Carlson	2682	9	Jamestown Board of Public Utilities	Early Election	0.46	0.41	0.50			
OH	Ashtabula	2835	7	FirstEnergy Generation Corporation	Averaging Plan	0.45	0.20			0.52	0.28
OH	Avon Lake Power Plant	2836	10	Orion Power Operating Services - Midwest, Inc.	Averaging Plan	0.40	0.38			0.64	0.38
OH	Avon Lake Power Plant	2836	12	Orion Power Operating Services - Midwest, Inc.	Averaging Plan	0.68	0.38			0.64	0.38
OH	Bay Shore	2878	1	FirstEnergy Generation Corporation	Averaging Plan	0.80	0.12			0.52	0.28
OH	Bay Shore	2878	2	FirstEnergy Generation Corporation	Averaging Plan	0.80	0.41			0.52	0.28

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State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
OH	Bay Shore	2878	3	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.41			0.52	0.28
OH	Bay Shore	2878	4	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.41			0.52	0.28
OH	Cardinal	2828	1	Cardinal Operating Company	Averaging Plan	0.68	0.34			0.56	0.34
OH	Cardinal	2828	2	Cardinal Operating Company	Averaging Plan	0.68	0.32			0.56	0.34
OH	Cardinal	2828	3	Cardinal Operating Company	Averaging Plan	0.46	0.26			0.56	0.34
OH	Conesville	2840	3	Columbus Southern Power Company	Averaging Plan	0.50	0.52			0.56	0.34
OH	Conesville	2840	4	Columbus Southern Power Company	Averaging Plan	0.45	0.38			0.56	0.34
OH	Conesville	2840	5	Columbus Southern Power Company	Averaging Plan	0.40	0.40			0.56	0.34
OH	Conesville	2840	6	Columbus Southern Power Company	Averaging Plan	0.40	0.40			0.56	0.34
OH	Eastlake	2837	1	FirstEnergy Generation Corporation	Averaging Plan	0.45	0.22			0.52	0.28
OH	Eastlake	2837	2	FirstEnergy Generation Corporation	Averaging Plan	0.45	0.21			0.52	0.28
OH	Eastlake	2837	3	FirstEnergy Generation Corporation	Averaging Plan	0.45	0.23			0.52	0.28
OH	Eastlake	2837	4	FirstEnergy Generation Corporation	Averaging Plan	0.45	0.21			0.52	0.28
OH	Eastlake	2837	5	FirstEnergy Generation Corporation	Averaging Plan	0.68	0.28			0.52	0.28
OH	Gen J M Gavin	8102	1	Ohio Power Company	Averaging Plan	0.68	0.45			0.56	0.34
OH	Gen J M Gavin	8102	2	Ohio Power Company	Averaging Plan	0.68	0.26			0.56	0.34

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OH	Hamilton Municipal Power Plant	2917	9	City of Hamilton	Standard Limit	0.40	0.35				
OH	J M Stuart	2850	1	Dayton Power and Light Company	Averaging Plan	0.68	0.37			0.62	0.37
OH	J M Stuart	2850	2	Dayton Power and Light Company	Averaging Plan	0.68	0.34			0.62	0.37
OH	J M Stuart	2850	3	Dayton Power and Light Company	Averaging Plan	0.68	0.36			0.62	0.37
OH	J M Stuart	2850	4	Dayton Power and Light Company	Averaging Plan	0.68	0.38			0.62	0.37
OH	Killen Station	6031	2	Dayton Power and Light Company	Averaging Plan	0.46	0.39			0.62	0.37
OH	Kyger Creek	2876	1	Ohio Valley Electric Corporation	Averaging Plan	0.84	0.40			0.84	0.46
OH	Kyger Creek	2876	2	Ohio Valley Electric Corporation	Averaging Plan	0.84	0.40			0.84	0.46
OH	Kyger Creek	2876	3	Ohio Valley Electric Corporation	Averaging Plan	0.84	0.40			0.84	0.46
OH	Kyger Creek	2876	4	Ohio Valley Electric Corporation	Averaging Plan	0.84	0.40			0.84	0.46
OH	Kyger Creek	2876	5	Ohio Valley Electric Corporation	Averaging Plan	0.84	0.40			0.84	0.46
OH	Lake Shore	2838	18	FirstEnergy Generation Corporation	Averaging Plan	0.40	0.30			0.52	0.28
OH	Miami Fort Generating Station	2832	5-1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.80	0.00			0.48	0.36
OH	Miami Fort Generating Station	2832	5-2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.80	0.00			0.48	0.36

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OH	Miami Fort Generating Station	2832	6	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.45	0.23			0.48	0.36
OH	Miami Fort Generating Station	2832	7	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.68	0.28			0.48	0.36
OH	Miami Fort Generating Station	2832	8	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.27			0.48	0.36
OH	Muskingum River	2872	1	Ohio Power Company	Averaging Plan	0.84	0.64			0.56	0.34
OH	Muskingum River	2872	2	Ohio Power Company	Averaging Plan	0.84	0.64			0.56	0.34
OH	Muskingum River	2872	3	Ohio Power Company	Averaging Plan	0.86	0.64			0.56	0.34
OH	Muskingum River	2872	4	Ohio Power Company	Averaging Plan	0.86	0.64			0.56	0.34
OH	Muskingum River	2872	5	Ohio Power Company	Averaging Plan	0.68	0.36			0.56	0.34
OH	O H Hutchings	2848	H-1	Dayton Power and Light Company	Averaging Plan	0.40	0.64			0.62	0.37
OH	O H Hutchings	2848	H-2	Dayton Power and Light Company	Averaging Plan	0.40	0.64			0.62	0.37
OH	O H Hutchings	2848	H-3	Dayton Power and Light Company	Averaging Plan	0.40	0.40			0.62	0.37
OH	O H Hutchings	2848	H-4	Dayton Power and Light Company	Averaging Plan	0.40	0.40			0.62	0.37
OH	O H Hutchings	2848	H-5	Dayton Power and Light Company	Averaging Plan	0.40	0.38			0.62	0.37
OH	O H Hutchings	2848	H-6	Dayton Power and Light Company	Averaging Plan	0.40	0.38			0.62	0.37
OH	Picway	2843	9	Columbus Southern Power Company	Averaging Plan	0.50	0.44			0.56	0.34

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OH	R E Burger	2864	5	FirstEnergy Generation Corporation	Averaging Plan	0.84	0.34			0.52	0.28
OH	R E Burger	2864	6	FirstEnergy Generation Corporation	Averaging Plan	0.84	0.34			0.52	0.28
OH	R E Burger	2864	7	FirstEnergy Generation Corporation	Averaging Plan	0.50	0.34			0.52	0.28
OH	R E Burger	2864	8	FirstEnergy Generation Corporation	Averaging Plan	0.50	0.34			0.52	0.28
OH	Richard Gorsuch	7253	1	American Municipal Power - Ohio	Standard Limit	0.46	0.39				
OH	Richard Gorsuch	7253	2	American Municipal Power - Ohio	Standard Limit	0.46	0.39				
OH	Richard Gorsuch	7253	3	American Municipal Power - Ohio	Standard Limit	0.46	0.39				
OH	Richard Gorsuch	7253	4	American Municipal Power - Ohio	Standard Limit	0.46	0.39				
OH	W H Sammis	2866	1	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.21			0.52	0.28
OH	W H Sammis	2866	2	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.21			0.52	0.28
OH	W H Sammis	2866	3	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.21			0.52	0.28
OH	W H Sammis	2866	4	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.21			0.52	0.28
OH	W H Sammis	2866	5	FirstEnergy Generation Corporation	Averaging Plan	0.50	0.26			0.52	0.28
OH	W H Sammis	2866	6	FirstEnergy Generation Corporation	Averaging Plan	0.50	0.28			0.52	0.28
OH	W H Sammis	2866	7	FirstEnergy Generation Corporation	Averaging Plan	0.68	0.29			0.52	0.28

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State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
OH	W H Zimmer Generating Station	6019	1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.38	0.50		0.48	0.36
OH	Walter C Beckjord Generating Station	2830	1	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.40	0.59			0.48	0.36
OH	Walter C Beckjord Generating Station	2830	2	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.40	0.62			0.48	0.36
OH	Walter C Beckjord Generating Station	2830	3	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.46	0.50			0.48	0.36
OH	Walter C Beckjord Generating Station	2830	4	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.40	0.37			0.48	0.36
OH	Walter C Beckjord Generating Station	2830	5	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.45	0.39			0.48	0.36
OH	Walter C Beckjord Generating Station	2830	6	Duke Energy Corporation, Duke Energy Corporation	Averaging Plan	0.45	0.43			0.48	0.36
OK	Grand River Dam Authority	165	1	Grand River Dam Authority	Averaging Plan	0.46	0.42			0.46	0.36
OK	Grand River Dam Authority	165	2	Grand River Dam Authority	Averaging Plan	0.46	0.30			0.46	0.36
OK	Hugo	6772	1	Western Farmers Electric Cooperative, Inc.	Standard Limit	0.46	0.20				
OK	Muskogee	2952	4	Oklahoma Gas & Electric Company	Early Election	0.40	0.27	0.45			

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OK	Muskogee	2952	5	Oklahoma Gas & Electric Company	Early Election	0.40	0.32	0.45			
OK	Muskogee	2952	6	Oklahoma Gas & Electric Company	Early Election	0.40	0.34	0.45			
OK	Northeastern	2963	3313	Public Service Company of Oklahoma	Averaging Plan	0.40	0.36			0.56	0.34
OK	Northeastern	2963	3314	Public Service Company of Oklahoma	Averaging Plan	0.40	0.36			0.56	0.34
OK	Sooner	6095	1	Oklahoma Gas & Electric Company	Early Election	0.40	0.34	0.45			
OK	Sooner	6095	2	Oklahoma Gas & Electric Company	Early Election	0.40	0.35	0.45			
OR	Boardman	6106	1SG	Portland General Electric Company	Early Election	0.46	0.45	0.50			
PA	Armstrong Power Station	3178	1	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.35			0.56	0.34
PA	Armstrong Power Station	3178	2	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.34			0.56	0.34
PA	Bruce Mansfield	6094	1	FirstEnergy Generation Corporation	Averaging Plan	0.50	0.29			0.52	0.28
PA	Bruce Mansfield	6094	2	FirstEnergy Generation Corporation	Averaging Plan	0.50	0.29			0.52	0.28
PA	Bruce Mansfield	6094	3	FirstEnergy Generation Corporation	Averaging Plan	0.46	0.30	0.50		0.52	0.28
PA	Brunner Island	3140	1	PPL Brunner Island, LLC	Standard Limit	0.45	0.33				
PA	Brunner Island	3140	2	PPL Brunner Island, LLC	Standard Limit	0.45	0.33				
PA	Brunner Island	3140	3	PPL Brunner Island, LLC	Standard Limit	0.45	0.35				
PA	Cheswick	8226	1	Orion Power Midwest, LP	Standard Limit	0.45	0.32				

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PA	Conemaugh	3118	1	Reliant Energy Northeast Management Company	Standard Limit	0.45	0.35				
PA	Conemaugh	3118	2	Reliant Energy Northeast Management Company	Standard Limit	0.45	0.32				
PA	Cromby	3159	1	Exelon Generation Company LLC	Early Election	0.46	0.38	0.50			
PA	Eddystone Generating Station	3161	1	Exelon Generation Company LLC	Early Election	0.40	0.34	0.45			
PA	Eddystone Generating Station	3161	2	Exelon Generation Company LLC	Early Election	0.40	0.29	0.45			
PA	Elrama	3098	1	Orion Power Midwest, LP	Averaging Plan	0.80	0.51			0.66	0.51
PA	Elrama	3098	2	Orion Power Midwest, LP	Averaging Plan	0.80	0.51			0.66	0.51
PA	Elrama	3098	3	Orion Power Midwest, LP	Averaging Plan	0.80	0.51			0.66	0.51
PA	Elrama	3098	4	Orion Power Midwest, LP	Averaging Plan	0.46	0.51			0.66	0.51
PA	Hatfields Ferry Power Station	3179	1	Allegheny Energy Supply Company, LLC	Averaging Plan	0.68	0.47			0.56	0.34
PA	Hatfields Ferry Power Station	3179	2	Allegheny Energy Supply Company, LLC	Averaging Plan	0.68	0.47			0.56	0.34
PA	Hatfields Ferry Power Station	3179	3	Allegheny Energy Supply Company, LLC	Averaging Plan	0.68	0.47			0.56	0.34
PA	Homer City	3122	1	EME Homer City Generation, LP	Early Election	0.46	0.28	0.50			
PA	Homer City	3122	2	EME Homer City Generation, LP	Early Election	0.46	0.17	0.50			
PA	Homer City	3122	3	EME Homer City Generation, LP	Early Election	0.46	0.32	0.50			



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PA	Keystone	3136	1	Reliant Energy Northeast Management Company	Early Election	0.40	0.23	0.45			
PA	Keystone	3136	2	Reliant Energy Northeast Management Company	Early Election	0.40	0.19	0.45			
PA	Martins Creek	3148	1	PPL Martins Creek, LLC	Standard Limit	0.50	0.45				
PA	Martins Creek	3148	2	PPL Martins Creek, LLC	Standard Limit	0.50	0.45				
PA	Mitchell Power Station	3181	33	Allegheny Energy Supply Company, LLC	Averaging Plan	0.45	0.32			0.56	0.34
PA	Montour	3149	1	PPL Montour, LLC	Early Election	0.40	0.26	0.45			
PA	Montour	3149	2	PPL Montour, LLC	Early Election	0.40	0.33	0.45			
PA	New Castle	3138	3	Orion Power Midwest, LP	Early Election	0.46	0.35	0.50			
PA	New Castle	3138	4	Orion Power Midwest, LP	Early Election	0.46	0.36	0.50			
PA	New Castle	3138	5	Orion Power Midwest, LP	Early Election	0.46	0.41	0.50			
PA	Portland	3113	1	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.45	0.24			0.45	0.37
PA	Portland	3113	2	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.45	0.37			0.45	0.37
PA	Shawville	3131	1	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.50	0.46			0.45	0.37
PA	Shawville	3131	2	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.50	0.46			0.45	0.37

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PA	Shawville	3131	3	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.45	0.38			0.45	0.37
PA	Shawville	3131	4	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.45	0.38			0.45	0.37
PA	Sunbury	3152	3	Sunbury Generation, LP	Standard Limit	0.50	0.29				
PA	Sunbury	3152	4	Sunbury Generation, LP	Standard Limit	0.50	0.27				
PA	Titus	3115	1	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.40	0.35	0.45		0.45	0.37
PA	Titus	3115	2	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.40	0.35	0.45		0.45	0.37
PA	Titus	3115	3	Reliant Energy Mid-Atlantic Power Holdings, LLC	Averaging Plan	0.40	0.35	0.45		0.45	0.37
SC	Canadys Steam	3280	CAN1	South Carolina Electric & Gas Company	Averaging Plan	0.40	0.41			0.42	0.31
SC	Canadys Steam	3280	CAN2	South Carolina Electric & Gas Company	Averaging Plan	0.40	0.40			0.42	0.31
SC	Canadys Steam	3280	CAN3	South Carolina Electric & Gas Company	Averaging Plan	0.46	0.37			0.42	0.31
SC	Cope Station	7210	COP1	South Carolina Electric & Gas Company	Averaging Plan	0.40	0.26			0.42	0.31
SC	Cross	130	1	Santee Cooper	Averaging Plan	0.46	0.09			0.46	0.21
SC	Cross	130	2	Santee Cooper	Early Election	0.40	0.10	0.45			
SC	Dolphus M Grainger	3317	1	Santee Cooper	Averaging Plan	0.46	0.45			0.46	0.21
SC	Dolphus M Grainger	3317	2	Santee Cooper	Averaging Plan	0.46	0.43			0.46	0.21

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SC	H B Robinson	3251	1	Carolina Power & Light Company	Averaging Plan	0.40	0.49			0.44	0.27
SC	Jefferies	3319	3	Santee Cooper	Averaging Plan	0.46	0.49			0.46	0.21
SC	Jefferies	3319	4	Santee Cooper	Averaging Plan	0.46	0.48			0.46	0.21
SC	McMeekin	3287	MCM1	South Carolina Electric & Gas Company	Averaging Plan	0.40	0.35			0.42	0.31
SC	McMeekin	3287	MCM2	South Carolina Electric & Gas Company	Averaging Plan	0.40	0.35			0.42	0.31
SC	Urquhart	3295	URQ3	South Carolina Electric & Gas Company	Averaging Plan	0.40	0.26			0.42	0.31
SC	W S Lee	3264	1	Duke Energy Corporation	Averaging Plan	0.40	0.25			0.48	0.22
SC	W S Lee	3264	2	Duke Energy Corporation	Averaging Plan	0.40	0.23			0.48	0.22
SC	W S Lee	3264	3	Duke Energy Corporation	Averaging Plan	0.40	0.24			0.48	0.22
SC	Wateree	3297	WAT1	South Carolina Electric & Gas Company	Averaging Plan	0.46	0.30			0.42	0.31
SC	Wateree	3297	WAT2	South Carolina Electric & Gas Company	Averaging Plan	0.46	0.24			0.42	0.31
SC	Williams	3298	WIL1	South Carolina Generating Company	Averaging Plan	0.40	0.33			0.42	0.31
SC	Winyah	6249	1	Santee Cooper	Averaging Plan	0.46	0.09			0.46	0.21
SC	Winyah	6249	2	Santee Cooper	Alternative Emissions Limit	0.46	0.11		0.61		
SC	Winyah	6249	3	Santee Cooper	Alternative Emissions Limit	0.46	0.13		0.60		
SC	Winyah	6249	4	Santee Cooper	Alternative Emissions Limit	0.46	0.12		0.60		
SD	Big Stone	6098	1	Otter Tail Power Company	Standard Limit	0.86	0.69				

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TN	Allen	3393	1	Tennessee Valley Authority	Averaging Plan	0.86	0.42			0.56	0.38
TN	Allen	3393	2	Tennessee Valley Authority	Averaging Plan	0.86	0.46			0.56	0.38
TN	Allen	3393	3	Tennessee Valley Authority	Averaging Plan	0.86	0.53			0.56	0.38
TN	Bull Run	3396	1	Tennessee Valley Authority	Averaging Plan	0.40	0.36			0.56	0.38
TN	Cumberland	3399	1	Tennessee Valley Authority	Averaging Plan	0.68	0.32			0.56	0.38
TN	Cumberland	3399	2	Tennessee Valley Authority	Averaging Plan	0.68	0.41			0.56	0.38
TN	Gallatin	3403	1	Tennessee Valley Authority	Averaging Plan	0.45	0.16			0.56	0.38
TN	Gallatin	3403	2	Tennessee Valley Authority	Averaging Plan	0.45	0.16			0.56	0.38
TN	Gallatin	3403	3	Tennessee Valley Authority	Averaging Plan	0.45	0.16			0.56	0.38
TN	Gallatin	3403	4	Tennessee Valley Authority	Averaging Plan	0.45	0.16			0.56	0.38
TN	John Sevier	3405	1	Tennessee Valley Authority	Averaging Plan	0.40	0.33			0.56	0.38
TN	John Sevier	3405	2	Tennessee Valley Authority	Averaging Plan	0.40	0.33			0.56	0.38
TN	John Sevier	3405	3	Tennessee Valley Authority	Averaging Plan	0.40	0.39			0.56	0.38
TN	John Sevier	3405	4	Tennessee Valley Authority	Averaging Plan	0.40	0.39			0.56	0.38
TN	Johnsonville	3406	1	Tennessee Valley Authority	Averaging Plan	0.45	0.40			0.56	0.38

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TN	Johnsonville	3406	10	Tennessee Valley Authority	Averaging Plan	0.50	0.40			0.56	0.38
TN	Johnsonville	3406	2	Tennessee Valley Authority	Averaging Plan	0.45	0.40			0.56	0.38
TN	Johnsonville	3406	3	Tennessee Valley Authority	Averaging Plan	0.45	0.40			0.56	0.38
TN	Johnsonville	3406	4	Tennessee Valley Authority	Averaging Plan	0.45	0.40			0.56	0.38
TN	Johnsonville	3406	5	Tennessee Valley Authority	Averaging Plan	0.45	0.40			0.56	0.38
TN	Johnsonville	3406	6	Tennessee Valley Authority	Averaging Plan	0.45	0.40			0.56	0.38
TN	Johnsonville	3406	7	Tennessee Valley Authority	Averaging Plan	0.50	0.40			0.56	0.38
TN	Johnsonville	3406	8	Tennessee Valley Authority	Averaging Plan	0.50	0.40			0.56	0.38
TN	Johnsonville	3406	9	Tennessee Valley Authority	Averaging Plan	0.50	0.40			0.56	0.38
TN	Kingston	3407	1	Tennessee Valley Authority	Averaging Plan	0.40	0.27			0.56	0.38
TN	Kingston	3407	2	Tennessee Valley Authority	Averaging Plan	0.40	0.27			0.56	0.38
TN	Kingston	3407	3	Tennessee Valley Authority	Averaging Plan	0.40	0.27			0.56	0.38
TN	Kingston	3407	4	Tennessee Valley Authority	Averaging Plan	0.40	0.27			0.56	0.38
TN	Kingston	3407	5	Tennessee Valley Authority	Averaging Plan	0.40	0.27			0.56	0.38
TN	Kingston	3407	6	Tennessee Valley Authority	Averaging Plan	0.40	0.24			0.56	0.38

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
TN	Kingston	3407	7	Tennessee Valley Authority	Averaging Plan	0.40	0.24			0.56	0.38
TN	Kingston	3407	8	Tennessee Valley Authority	Averaging Plan	0.40	0.24			0.56	0.38
TN	Kingston	3407	9	Tennessee Valley Authority	Averaging Plan	0.40	0.24			0.56	0.38
TX	Big Brown	3497	1	Luminant Generation Company LLC	Early Election	0.40	0.15	0.45			
TX	Big Brown	3497	2	Luminant Generation Company LLC	Early Election	0.40	0.14	0.45			
TX	Coletto Creek	6178	1	Coletto Creek WLE, LP	Early Election	0.40	0.15	0.45			
TX	Gibbons Creek Steam Electric Station	6136	1	Texas Municipal Power Agency	Early Election	0.40	0.13	0.45			
TX	H W Pirkey Power Plant	7902	1	Southwestern Electric Power Company	Averaging Plan	0.46	0.17			0.56	0.34
TX	Harrington Station	6193	061B	Southwestern Public Service Company	Early Election	0.40	0.28	0.45			
TX	Harrington Station	6193	062B	Southwestern Public Service Company	Early Election	0.40	0.31	0.45			
TX	Harrington Station	6193	063B	Southwestern Public Service Company	Early Election	0.40	0.15	0.45			
TX	J K Spruce	7097	**1	City of San Antonio	Early Election	0.40	0.13	0.45			
TX	J T Deely	6181	1	City of San Antonio	Early Election	0.40	0.13	0.45			
TX	J T Deely	6181	2	City of San Antonio	Early Election	0.40	0.13	0.45			
TX	Limestone	298	LIM1	NRG Texas Power LLC	Early Election	0.40	0.19	0.45			
TX	Limestone	298	LIM2	NRG Texas Power LLC	Early Election	0.40	0.20	0.45			
TX	Martin Lake	6146	1	Luminant Generation Company LLC	Early Election	0.40	0.16	0.45			

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
TX	Martin Lake	6146	2	Luminant Generation Company LLC	Early Election	0.40	0.16	0.45			
TX	Martin Lake	6146	3	Luminant Generation Company LLC	Early Election	0.40	0.15	0.45			
TX	Monticello	6147	1	Luminant Generation Company LLC	Early Election	0.40	0.15	0.45			
TX	Monticello	6147	2	Luminant Generation Company LLC	Early Election	0.40	0.15	0.45			
TX	Monticello	6147	3	Luminant Generation Company LLC	Early Election	0.46	0.21	0.50			
TX	Oklauion Power Station	127	1	West Texas Utilities Company	Averaging Plan	0.46	0.34			0.56	0.34
TX	Sam Seymour	6179	1	Lower Colorado River Authority	Early Election	0.40	0.10	0.45			
TX	Sam Seymour	6179	2	Lower Colorado River Authority	Early Election	0.40	0.11	0.45			
TX	Sam Seymour	6179	3	Lower Colorado River Authority	Early Election	0.40	0.12	0.45			
TX	San Miguel	6183	SM-1	San Miguel Electric Cooperative	Early Election	0.46	0.19	0.50			
TX	Sadow	6648	4	Luminant Generation Company LLC	Early Election	0.40	0.20	0.45			
TX	Tolk Station	6194	171B	Southwestern Public Service Company	Early Election	0.40	0.20	0.45			
TX	Tolk Station	6194	172B	Southwestern Public Service Company	Early Election	0.40	0.23	0.45			
TX	W A Parish	3470	WAP5	NRG Texas Power LLC	Early Election	0.46	0.05	0.50			
TX	W A Parish	3470	WAP6	NRG Texas Power LLC	Early Election	0.46	0.04	0.50			
TX	W A Parish	3470	WAP7	NRG Texas Power LLC	Early Election	0.40	0.04	0.45			

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
TX	W A Parish	3470	WAP8	NRG Texas Power LLC	Early Election	0.40	0.04	0.45			
TX	Welsh Power Plant	6139	1	Southwestern Electric Power Company	Averaging Plan	0.46	0.16			0.56	0.34
TX	Welsh Power Plant	6139	2	Southwestern Electric Power Company	Averaging Plan	0.46	0.16			0.56	0.34
TX	Welsh Power Plant	6139	3	Southwestern Electric Power Company	Averaging Plan	0.46	0.19			0.56	0.34
UT	Bonanza	7790	1-1	Deseret Generation & Transmission	Early Election	0.46	0.36	0.50			
UT	Carbon	3644	1	PacifiCorp	Averaging Plan	0.40	0.52			0.45	0.34
UT	Carbon	3644	2	PacifiCorp	Averaging Plan	0.40	0.50	0.45		0.45	0.34
UT	Hunter	6165	1	PacifiCorp	Early Election	0.40	0.37	0.45			
UT	Hunter	6165	2	PacifiCorp	Early Election	0.40	0.37	0.45			
UT	Hunter	6165	3	PacifiCorp	Averaging Plan	0.46	0.34			0.45	0.34
UT	Huntington	8069	1	PacifiCorp	Early Election	0.40	0.36	0.45			
UT	Huntington	8069	2	PacifiCorp	Averaging Plan	0.40	0.23			0.45	0.34
UT	Intermountain	6481	1SGA	Intermountain Power Service Corporation	Early Election	0.46	0.39	0.50			
UT	Intermountain	6481	2SGA	Intermountain Power Service Corporation	Early Election	0.46	0.36	0.50			
VA	Bremo Power Station	3796	3	Dominion Generation	Averaging Plan	0.46	0.67			0.41	0.27
VA	Bremo Power Station	3796	4	Dominion Generation	Averaging Plan	0.46	0.36			0.41	0.27
VA	Chesapeake Energy Center	3803	1	Dominion Generation	Early Election	0.40	0.42	0.45			
VA	Chesapeake Energy Center	3803	2	Dominion Generation	Early Election	0.40	0.44	0.45			
VA	Chesapeake Energy Center	3803	3	Dominion Generation	Averaging Plan	0.46	0.20			0.41	0.27
VA	Chesapeake Energy Center	3803	4	Dominion Generation	Early Election	0.40	0.25	0.45			
VA	Chesterfield Power Station	3797	3	Dominion Generation	Early Election	0.40	0.39	0.45			
VA	Chesterfield Power Station	3797	4	Dominion Generation	Early Election	0.40	0.25	0.45			



## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
VA	Chesterfield Power Station	3797	5	Dominion Generation	Averaging Plan	0.40	0.23			0.41	0.27
VA	Chesterfield Power Station	3797	6	Dominion Generation	Averaging Plan	0.40	0.23			0.41	0.27
VA	Clinch River	3775	1	Appalachian Power Company	Averaging Plan	0.80	0.41			0.56	0.34
VA	Clinch River	3775	2	Appalachian Power Company	Averaging Plan	0.80	0.41			0.56	0.34
VA	Clinch River	3775	3	Appalachian Power Company	Averaging Plan	0.80	0.40			0.56	0.34
VA	Clover Power Station	7213	1	Dominion Generation	Averaging Plan	0.40	0.28			0.41	0.27
VA	Clover Power Station	7213	2	Dominion Generation	Averaging Plan	0.40	0.27			0.41	0.27
VA	Glen Lyn	3776	51	Appalachian Power Company	Averaging Plan	0.40	0.40			0.56	0.34
VA	Glen Lyn	3776	52	Appalachian Power Company	Averaging Plan	0.40	0.38			0.56	0.34
VA	Glen Lyn	3776	6	Appalachian Power Company	Averaging Plan	0.46	0.43			0.56	0.34
VA	Mirant Potomac River	3788	1	Mirant Potomac River, LLC	Early Election	0.40	0.33	0.45			
VA	Mirant Potomac River	3788	2	Mirant Potomac River, LLC	Early Election	0.40	0.29	0.45			
VA	Mirant Potomac River	3788	3	Mirant Potomac River, LLC	Early Election	0.40	0.25	0.45			
VA	Mirant Potomac River	3788	4	Mirant Potomac River, LLC	Early Election	0.40	0.23	0.45			
VA	Mirant Potomac River	3788	5	Mirant Potomac River, LLC	Early Election	0.40	0.25	0.45			
VA	Possum Point Power Station	3804	3	Dominion Generation	Early Election	0.40	0.12	0.45			

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
VA	Possum Point Power Station	3804	4	Dominion Generation	Averaging Plan	0.40	0.09			0.41	0.27
VA	Yorktown Power Station	3809	1	Dominion Generation	Early Election	0.40	0.37	0.45			
VA	Yorktown Power Station	3809	2	Dominion Generation	Early Election	0.40	0.37	0.45			
WA	Centralia	3845	BW21	TransAlta Centralia Generation, LLC	Early Election	0.40	0.27	0.45			
WA	Centralia	3845	BW22	TransAlta Centralia Generation, LLC	Early Election	0.40	0.22	0.45			
WI	Alma	4140	B4	Dairyland Power Cooperative	Averaging Plan	0.50	0.82			0.48	0.39
WI	Alma	4140	B5	Dairyland Power Cooperative	Averaging Plan	0.50	0.82			0.48	0.39
WI	Blount Street	3992	7	Madison Gas & Electric Company	Standard Limit	0.68	0.43				
WI	Blount Street	3992	8	Madison Gas & Electric Company	Early Election	0.46	0.31	0.50			
WI	Blount Street	3992	9	Madison Gas & Electric Company	Early Election	0.46	0.34	0.50			
WI	Columbia	8023	1	Wisconsin Power & Light Company	Early Election	0.40	0.14	0.45			
WI	Columbia	8023	2	Wisconsin Power & Light Company	Early Election	0.40	0.12	0.45			
WI	DTE Stoneman, LLC	4146	B1	WPS Power Development, Inc.	Averaging Plan	0.46	0.37			0.46	0.37
WI	DTE Stoneman, LLC	4146	B2	WPS Power Development, Inc.	Averaging Plan	0.46	0.37			0.46	0.37
WI	Edgewater (4050)	4050	4	Wisconsin Power & Light Company	Averaging Plan	0.86	0.18			0.64	0.17
WI	Edgewater (4050)	4050	5	Wisconsin Power & Light Company	Averaging Plan	0.46	0.16	0.50		0.64	0.17

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
WI	Genoa	4143	1	Dairyland Power Cooperative	Averaging Plan	0.45	0.33			0.48	0.39
WI	J P Madgett	4271	B1	Dairyland Power Cooperative	Averaging Plan	0.50	0.31			0.48	0.39
WI	Pleasant Prairie	6170	1	Wisconsin Electric Power Company	Averaging Plan	0.46	0.05			0.46	0.17
WI	Pleasant Prairie	6170	2	Wisconsin Electric Power Company	Averaging Plan	0.46	0.07			0.46	0.17
WI	Pulliam	4072	3	Wisconsin Public Service Corporation	Averaging Plan	0.46	0.76			0.47	0.47
WI	Pulliam	4072	4	Wisconsin Public Service Corporation	Averaging Plan	0.46	0.76			0.47	0.47
WI	Pulliam	4072	5	Wisconsin Public Service Corporation	Averaging Plan	0.46	0.88			0.47	0.47
WI	Pulliam	4072	6	Wisconsin Public Service Corporation	Averaging Plan	0.46	0.88			0.47	0.47
WI	Pulliam	4072	7	Wisconsin Public Service Corporation	Averaging Plan	0.50	0.38			0.47	0.47
WI	Pulliam	4072	8	Wisconsin Public Service Corporation	Averaging Plan	0.50	0.29			0.47	0.47
WI	South Oak Creek	4041	5	Wisconsin Electric Power Company	Averaging Plan	0.50	0.16			0.46	0.17
WI	South Oak Creek	4041	6	Wisconsin Electric Power Company	Averaging Plan	0.50	0.16			0.46	0.17
WI	South Oak Creek	4041	7	Wisconsin Electric Power Company	Averaging Plan	0.45	0.13			0.46	0.17
WI	South Oak Creek	4041	8	Wisconsin Electric Power Company	Averaging Plan	0.45	0.13			0.46	0.17
WI	Valley (WEPCO)	4042	1	Wisconsin Electric Power Company	Averaging Plan	0.50	0.34			0.46	0.17

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
WI	Valley (WEPCO)	4042	2	Wisconsin Electric Power Company	Averaging Plan	0.50	0.34			0.46	0.17
WI	Valley (WEPCO)	4042	3	Wisconsin Electric Power Company	Averaging Plan	0.50	0.36			0.46	0.17
WI	Valley (WEPCO)	4042	4	Wisconsin Electric Power Company	Averaging Plan	0.50	0.36			0.46	0.17
WI	Weston	4078	1	Wisconsin Public Service Corporation	Averaging Plan	0.50	0.80			0.47	0.47
WI	Weston	4078	2	Wisconsin Public Service Corporation	Averaging Plan	0.50	0.38			0.47	0.47
WI	Weston	4078	3	Wisconsin Public Service Corporation	Averaging Plan	0.45	0.25			0.47	0.47
WV	Albright Power Station	3942	1	Monongahela Power Company	Averaging Plan	0.50	0.54			0.56	0.34
WV	Albright Power Station	3942	2	Monongahela Power Company	Averaging Plan	0.50	0.46			0.56	0.34
WV	Albright Power Station	3942	3	Monongahela Power Company	Averaging Plan	0.45	0.27			0.56	0.34
WV	Fort Martin Power Station	3943	1	Monongahela Power Company	Averaging Plan	0.45	0.29			0.56	0.34
WV	Fort Martin Power Station	3943	2	Monongahela Power Company	Averaging Plan	0.68	0.26			0.56	0.34
WV	Harrison Power Station	3944	1	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.30			0.56	0.34
WV	Harrison Power Station	3944	2	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.33			0.56	0.34
WV	Harrison Power Station	3944	3	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.29			0.56	0.34
WV	John E Amos	3935	1	Appalachian Power Company	Averaging Plan	0.46	0.32			0.56	0.34

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
WV	John E Amos	3935	2	Appalachian Power Company	Averaging Plan	0.46	0.32			0.56	0.34
WV	John E Amos	3935	3	Appalachian Power Company	Averaging Plan	0.68	0.46			0.56	0.34
WV	Kammer	3947	1	Ohio Power Company	Averaging Plan	0.86	0.56			0.56	0.34
WV	Kammer	3947	2	Ohio Power Company	Averaging Plan	0.86	0.56			0.56	0.34
WV	Kammer	3947	3	Ohio Power Company	Averaging Plan	0.86	0.56			0.56	0.34
WV	Kanawha River	3936	1	Appalachian Power Company	Averaging Plan	0.80	0.37			0.56	0.34
WV	Kanawha River	3936	2	Appalachian Power Company	Averaging Plan	0.80	0.37			0.56	0.34
WV	Mitchell (WV)	3948	1	Ohio Power Company	Averaging Plan	0.50	0.31			0.56	0.34
WV	Mitchell (WV)	3948	2	Ohio Power Company	Averaging Plan	0.50	0.34			0.56	0.34
WV	Mount Storm Power Station	3954	1	Dominion Generation	Alternative Emissions Limit	0.45	0.34		0.76		
WV	Mount Storm Power Station	3954	2	Dominion Generation	Alternative Emissions Limit	0.45	0.33		0.69		
WV	Mount Storm Power Station	3954	3	Dominion Generation	Alternative Emissions Limit	0.45	0.37		0.74		
WV	Mountaineer (1301)	6264	1	Appalachian Power Company	Averaging Plan	0.46	0.25			0.56	0.34
WV	Phil Sporn	3938	11	Appalachian Power Company	Averaging Plan	0.80	0.41			0.56	0.34
WV	Phil Sporn	3938	21	Central Operating Company	Averaging Plan	0.80	0.41			0.56	0.34
WV	Phil Sporn	3938	31	Appalachian Power Company	Averaging Plan	0.80	0.41			0.56	0.34
WV	Phil Sporn	3938	41	Central Operating Company	Averaging Plan	0.80	0.41			0.56	0.34

## 2007 Acid Rain Program NOx Compliance Summary

State	Facility Name	Facility ID (ORISPL)	Unit ID	Unit Operator(s)	Compliance Approach	Standard Emissions Limit	Actual Emission Rate	Early Election Limit (if applicable)	AEL (if applicable)	Averaging Plan Limit (if applicable)	Actual Averaging Plan Rate (if applicable)
WV	Phil Sporn	3938	51	Central Operating Company	Averaging Plan	0.46	0.38			0.56	0.34
WV	Pleasants Power Station	6004	1	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.23			0.56	0.34
WV	Pleasants Power Station	6004	2	Allegheny Energy Supply Company, LLC	Averaging Plan	0.50	0.25			0.56	0.34
WV	Rivesville Power Station	3945	7	Monongahela Power Company	Averaging Plan	0.80	0.84			0.56	0.34
WV	Rivesville Power Station	3945	8	Monongahela Power Company	Averaging Plan	0.80	0.58			0.56	0.34
WV	Willow Island Power Station	3946	1	Allegheny Energy Supply Company, LLC	Averaging Plan	0.80	0.38			0.56	0.34
WV	Willow Island Power Station	3946	2	Allegheny Energy Supply Company, LLC	Averaging Plan	0.86	0.68			0.56	0.34
WY	Dave Johnston	4158	BW41	PacifiCorp	Early Election	0.46	0.45	0.50			
WY	Dave Johnston	4158	BW42	PacifiCorp	Early Election	0.46	0.44	0.50			
WY	Dave Johnston	4158	BW43	PacifiCorp	Averaging Plan	0.68	0.49			0.45	0.34
WY	Dave Johnston	4158	BW44	PacifiCorp	Averaging Plan	0.40	0.24			0.45	0.34
WY	Jim Bridger	8066	BW71	PacifiCorp	Averaging Plan	0.45	0.40			0.45	0.34
WY	Jim Bridger	8066	BW72	PacifiCorp	Averaging Plan	0.45	0.23			0.45	0.34
WY	Jim Bridger	8066	BW73	PacifiCorp	Averaging Plan	0.45	0.27			0.45	0.34
WY	Jim Bridger	8066	BW74	PacifiCorp	Early Election	0.40	0.38	0.45			
WY	Laramie River	6204	1	Basin Electric Power Cooperative	Early Election	0.46	0.26	0.50			
WY	Laramie River	6204	2	Basin Electric Power Cooperative	Early Election	0.46	0.27	0.50			
WY	Laramie River	6204	3	Basin Electric Power Cooperative	Early Election	0.46	0.27	0.50			
WY	Naughton	4162	1	PacifiCorp	Averaging Plan	0.40	0.52			0.45	0.34

### 2007 Acid Rain Program NOx Compliance Summary

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WY	Naughton	4162	2	PacifiCorp	Averaging Plan	0.40	0.52			0.45	0.34
WY	Naughton	4162	3	PacifiCorp	Averaging Plan	0.40	0.39			0.45	0.34
WY	Wyodak	6101	BW91	PacifiCorp	Averaging Plan	0.50	0.27			0.45	0.34

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
10	Clifty Creek	983	1	0.84	0.46
10	Clifty Creek	983	2	0.84	0.46
10	Clifty Creek	983	3	0.84	0.46
10	Clifty Creek	983	4	0.84	0.46
10	Clifty Creek	983	5	0.84	0.46
10	Clifty Creek	983	6	0.84	0.46
10	Kyger Creek	2876	1	0.84	0.46
10	Kyger Creek	2876	2	0.84	0.46
10	Kyger Creek	2876	3	0.84	0.46
10	Kyger Creek	2876	4	0.84	0.46
10	Kyger Creek	2876	5	0.84	0.46
11	Harding Street Station (EW Stout)	990	50	0.45	0.26
11	Harding Street Station (EW Stout)	990	60	0.45	0.26
11	Harding Street Station (EW Stout)	990	70	0.45	0.26
11	IPL Eagle Valley Generating Station	991	3	0.45	0.26
11	IPL Eagle Valley Generating Station	991	4	0.45	0.26
11	IPL Eagle Valley Generating Station	991	5	0.45	0.26
11	IPL Eagle Valley Generating Station	991	6	0.45	0.26
11	Petersburg	994	1	0.45	0.26
11	Petersburg	994	2	0.45	0.26
11	Petersburg	994	3	0.45	0.26
11	Petersburg	994	4	0.45	0.26
21	Bailly Generating Station	995	7	0.74	0.45
21	Bailly Generating Station	995	8	0.74	0.45
21	Michigan City Generating Station	997	12	0.74	0.45
21	R M Schahfer Generating Station	6085	14	0.74	0.45
21	R M Schahfer Generating Station	6085	15	0.74	0.45
28	New Madrid Power Plant	2167	1	0.76	0.52
28	New Madrid Power Plant	2167	2	0.76	0.52
28	Thomas Hill Energy Center	2168	MB1	0.76	0.52
28	Thomas Hill Energy Center	2168	MB2	0.76	0.52
28	Thomas Hill Energy Center	2168	MB3	0.76	0.52
33	Martin Drake	492	5	0.46	0.41
33	Martin Drake	492	6	0.46	0.41
33	Martin Drake	492	7	0.46	0.41
34	Grand River Dam Authority	165	1	0.46	0.36
34	Grand River Dam Authority	165	2	0.46	0.36
35	R D Morrow Senior Generating Plant	6061	1	0.50	0.47
35	R D Morrow Senior Generating Plant	6061	2	0.50	0.47
47	State Line Generating Station (IN)	981	3	0.69	0.49
47	State Line Generating Station (IN)	981	4	0.69	0.49
51	Frank E Ratts	1043	1SG1	0.47	0.27
51	Frank E Ratts	1043	2SG1	0.47	0.27



## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
51	Merom	6213	1SG1	0.47	0.27
51	Merom	6213	2SG1	0.47	0.27
53	Bremo Power Station	3796	3	0.41	0.27
53	Bremo Power Station	3796	4	0.41	0.27
53	Chesapeake Energy Center	3803	3	0.41	0.27
53	Chesterfield Power Station	3797	5	0.41	0.27
53	Chesterfield Power Station	3797	6	0.41	0.27
53	Clover Power Station	7213	1	0.41	0.27
53	Clover Power Station	7213	2	0.41	0.27
53	Possum Point Power Station	3804	4	0.41	0.27
57	Coleman	1381	C1	0.49	0.32
57	Coleman	1381	C2	0.49	0.32
57	Coleman	1381	C3	0.49	0.32
57	D B Wilson	6823	W1	0.49	0.32
57	HMP&L Station 2	1382	H1	0.49	0.32
57	HMP&L Station 2	1382	H2	0.49	0.32
57	R D Green	6639	G1	0.49	0.32
57	R D Green	6639	G2	0.49	0.32
57	Robert Reid	1383	R1	0.49	0.32
61	Rochester 7 - Russell Station	2642	1	0.40	0.32
61	Rochester 7 - Russell Station	2642	2	0.40	0.32
61	Rochester 7 - Russell Station	2642	3	0.40	0.32
61	Rochester 7 - Russell Station	2642	4	0.40	0.32
62	Hudson Generating Station	2403	2	0.67	0.16
62	Mercer Generating Station	2408	1	0.67	0.16
62	Mercer Generating Station	2408	2	0.67	0.16
67	Edgewater (4050)	4050	4	0.64	0.17
67	Edgewater (4050)	4050	5	0.64	0.17
68	Alma	4140	B4	0.48	0.39
68	Alma	4140	B5	0.48	0.39
68	Genoa	4143	1	0.48	0.39
68	J P Madgett	4271	B1	0.48	0.39
71	La Cygne	1241	1	0.68	0.33
71	La Cygne	1241	2	0.68	0.33
100	Albright Power Station	3942	1	0.56	0.34
100	Albright Power Station	3942	2	0.56	0.34
100	Albright Power Station	3942	3	0.56	0.34
100	Armstrong Power Station	3178	1	0.56	0.34
100	Armstrong Power Station	3178	2	0.56	0.34
100	Fort Martin Power Station	3943	1	0.56	0.34
100	Fort Martin Power Station	3943	2	0.56	0.34
100	Harrison Power Station	3944	1	0.56	0.34
100	Harrison Power Station	3944	2	0.56	0.34

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
100	Harrison Power Station	3944	3	0.56	0.34
100	Hatfields Ferry Power Station	3179	1	0.56	0.34
100	Hatfields Ferry Power Station	3179	2	0.56	0.34
100	Hatfields Ferry Power Station	3179	3	0.56	0.34
100	Mitchell Power Station	3181	33	0.56	0.34
100	Pleasants Power Station	6004	1	0.56	0.34
100	Pleasants Power Station	6004	2	0.56	0.34
100	R. Paul Smith Power Station	1570	11	0.56	0.34
100	R. Paul Smith Power Station	1570	9	0.56	0.34
100	Rivesville Power Station	3945	7	0.56	0.34
100	Rivesville Power Station	3945	8	0.56	0.34
100	Willow Island Power Station	3946	1	0.56	0.34
100	Willow Island Power Station	3946	2	0.56	0.34
102	Belle River	6034	1	0.55	0.30
102	Belle River	6034	2	0.55	0.30
102	Harbor Beach	1731	1	0.55	0.30
102	Marysville	1732	10	0.55	0.30
102	Marysville	1732	11	0.55	0.30
102	Marysville	1732	12	0.55	0.30
102	Marysville	1732	9	0.55	0.30
102	Monroe	1733	1	0.55	0.30
102	Monroe	1733	2	0.55	0.30
102	Monroe	1733	3	0.55	0.30
102	Monroe	1733	4	0.55	0.30
102	River Rouge	1740	2	0.55	0.30
102	River Rouge	1740	3	0.55	0.30
102	St. Clair	1743	1	0.55	0.30
102	St. Clair	1743	2	0.55	0.30
102	St. Clair	1743	3	0.55	0.30
102	St. Clair	1743	4	0.55	0.30
102	St. Clair	1743	6	0.55	0.30
102	St. Clair	1743	7	0.55	0.30
102	Trenton Channel	1745	16	0.55	0.30
102	Trenton Channel	1745	17	0.55	0.30
102	Trenton Channel	1745	18	0.55	0.30
102	Trenton Channel	1745	19	0.55	0.30
102	Trenton Channel	1745	9A	0.55	0.30
108	J M Stuart	2850	1	0.62	0.37
108	J M Stuart	2850	2	0.62	0.37
108	J M Stuart	2850	3	0.62	0.37
108	J M Stuart	2850	4	0.62	0.37
108	Killen Station	6031	2	0.62	0.37
108	O H Hutchings	2848	H-1	0.62	0.37

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
108	O H Hutchings	2848	H-2	0.62	0.37
108	O H Hutchings	2848	H-3	0.62	0.37
108	O H Hutchings	2848	H-4	0.62	0.37
108	O H Hutchings	2848	H-5	0.62	0.37
108	O H Hutchings	2848	H-6	0.62	0.37
109	Arapahoe	465	3	0.80	0.43
109	Arapahoe	465	4	0.80	0.43
111	Reid Gardner	2324	1	0.46	0.32
111	Reid Gardner	2324	2	0.46	0.32
111	Reid Gardner	2324	3	0.46	0.32
111	Reid Gardner	2324	4	0.46	0.32
116	San Juan	2451	1	0.46	0.43
116	San Juan	2451	2	0.46	0.43
116	San Juan	2451	3	0.46	0.43
116	San Juan	2451	4	0.46	0.43
123	Carbon	3644	1	0.45	0.34
123	Carbon	3644	2	0.45	0.34
123	Dave Johnston	4158	BW43	0.45	0.34
123	Dave Johnston	4158	BW44	0.45	0.34
123	Hunter	6165	3	0.45	0.34
123	Huntington	8069	2	0.45	0.34
123	Jim Bridger	8066	BW71	0.45	0.34
123	Jim Bridger	8066	BW72	0.45	0.34
123	Jim Bridger	8066	BW73	0.45	0.34
123	Naughton	4162	1	0.45	0.34
123	Naughton	4162	2	0.45	0.34
123	Naughton	4162	3	0.45	0.34
123	Wyodak	6101	BW91	0.45	0.34
125	Canadys Steam	3280	CAN1	0.42	0.31
125	Canadys Steam	3280	CAN2	0.42	0.31
125	Canadys Steam	3280	CAN3	0.42	0.31
125	Cope Station	7210	COP1	0.42	0.31
125	McMeekin	3287	MCM1	0.42	0.31
125	McMeekin	3287	MCM2	0.42	0.31
125	Urquhart	3295	URQ3	0.42	0.31
125	Wateree	3297	WAT1	0.42	0.31
125	Wateree	3297	WAT2	0.42	0.31
125	Williams	3298	WIL1	0.42	0.31
126	Boswell Energy Center	1893	1	0.41	0.35
126	Boswell Energy Center	1893	2	0.41	0.35
126	Boswell Energy Center	1893	3	0.41	0.35
126	Boswell Energy Center	1893	4	0.41	0.35
126	Laskin Energy Center	1891	1	0.41	0.35

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
126	Laskin Energy Center	1891	2	0.41	0.35
126	Taconite Harbor Energy Center	10075	1	0.41	0.35
126	Taconite Harbor Energy Center	10075	2	0.41	0.35
126	Taconite Harbor Energy Center	10075	3	0.41	0.35
127	Barry	3	1	0.46	0.26
127	Barry	3	2	0.46	0.26
127	Barry	3	3	0.46	0.26
127	Barry	3	4	0.46	0.26
127	Barry	3	5	0.46	0.26
127	Bowen	703	1BLR	0.46	0.26
127	Bowen	703	2BLR	0.46	0.26
127	Bowen	703	3BLR	0.46	0.26
127	Bowen	703	4BLR	0.46	0.26
127	Crist Electric Generating Plant	641	4	0.46	0.26
127	Crist Electric Generating Plant	641	5	0.46	0.26
127	Crist Electric Generating Plant	641	6	0.46	0.26
127	Crist Electric Generating Plant	641	7	0.46	0.26
127	Daniel Electric Generating Plant	6073	1	0.46	0.26
127	Daniel Electric Generating Plant	6073	2	0.46	0.26
127	E C Gaston	26	1	0.46	0.26
127	E C Gaston	26	2	0.46	0.26
127	E C Gaston	26	3	0.46	0.26
127	E C Gaston	26	4	0.46	0.26
127	E C Gaston	26	5	0.46	0.26
127	Gadsden	7	1	0.46	0.26
127	Gadsden	7	2	0.46	0.26
127	Gorgas	8	10	0.46	0.26
127	Gorgas	8	6	0.46	0.26
127	Gorgas	8	7	0.46	0.26
127	Gorgas	8	8	0.46	0.26
127	Gorgas	8	9	0.46	0.26
127	Greene County	10	1	0.46	0.26
127	Greene County	10	2	0.46	0.26
127	Hammond	708	1	0.46	0.26
127	Hammond	708	2	0.46	0.26
127	Hammond	708	3	0.46	0.26
127	Hammond	708	4	0.46	0.26
127	Harlee Branch	709	1	0.46	0.26
127	Harlee Branch	709	2	0.46	0.26
127	Harlee Branch	709	3	0.46	0.26
127	Harlee Branch	709	4	0.46	0.26
127	Jack McDonough	710	MB1	0.46	0.26
127	Jack McDonough	710	MB2	0.46	0.26

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
127	James H Miller Jr	6002	1	0.46	0.26
127	James H Miller Jr	6002	2	0.46	0.26
127	James H Miller Jr	6002	3	0.46	0.26
127	James H Miller Jr	6002	4	0.46	0.26
127	Kraft	733	1	0.46	0.26
127	Kraft	733	2	0.46	0.26
127	Kraft	733	3	0.46	0.26
127	Lansing Smith Generating Plant	643	1	0.46	0.26
127	Lansing Smith Generating Plant	643	2	0.46	0.26
127	McIntosh (6124)	6124	1	0.46	0.26
127	Mitchell (GA)	727	3	0.46	0.26
127	Scherer	6257	1	0.46	0.26
127	Scherer	6257	2	0.46	0.26
127	Scherer	6257	3	0.46	0.26
127	Scherer	6257	4	0.46	0.26
127	Scholz Electric Generating Plant	642	1	0.46	0.26
127	Scholz Electric Generating Plant	642	2	0.46	0.26
127	Wansley (6052)	6052	1	0.46	0.26
127	Wansley (6052)	6052	2	0.46	0.26
127	Watson Electric Generating Plant	2049	4	0.46	0.26
127	Watson Electric Generating Plant	2049	5	0.46	0.26
127	Yates	728	Y1BR	0.46	0.26
127	Yates	728	Y2BR	0.46	0.26
127	Yates	728	Y3BR	0.46	0.26
127	Yates	728	Y4BR	0.46	0.26
127	Yates	728	Y5BR	0.46	0.26
127	Yates	728	Y6BR	0.46	0.26
127	Yates	728	Y7BR	0.46	0.26
128	Cherokee	469	1	0.80	0.51
128	Cherokee	469	2	0.80	0.51
130	Baldwin Energy Complex	889	3	0.44	0.13
130	Hennepin Power Station	892	1	0.44	0.13
130	Hennepin Power Station	892	2	0.44	0.13
130	Vermilion Power Station	897	1	0.44	0.13
130	Vermilion Power Station	897	2	0.44	0.13
130	Wood River Power Station	898	5	0.44	0.13
132	James River	2161	3	0.50	0.33
132	James River	2161	4	0.50	0.33
132	James River	2161	5	0.50	0.33
132	Southwest	6195	1	0.50	0.33
133	Eckert Station	1831	1	0.45	0.20
133	Eckert Station	1831	2	0.45	0.20
133	Eckert Station	1831	3	0.45	0.20

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
133	Eckert Station	1831	4	0.45	0.20
133	Eckert Station	1831	5	0.45	0.20
133	Eckert Station	1831	6	0.45	0.20
133	Erickson	1832	1	0.45	0.20
137	Jeffrey Energy Center	6068	1	0.40	0.30
137	Jeffrey Energy Center	6068	2	0.40	0.30
137	Jeffrey Energy Center	6068	3	0.40	0.30
137	Lawrence Energy Center	1250	3	0.40	0.30
137	Lawrence Energy Center	1250	4	0.40	0.30
137	Lawrence Energy Center	1250	5	0.40	0.30
137	Tecumseh Energy Center	1252	10	0.40	0.30
137	Tecumseh Energy Center	1252	9	0.40	0.30
138	Labadie	2103	1	0.52	0.14
138	Labadie	2103	2	0.52	0.14
138	Labadie	2103	3	0.52	0.14
138	Labadie	2103	4	0.52	0.14
138	Meramec	2104	1	0.52	0.14
138	Meramec	2104	2	0.52	0.14
138	Meramec	2104	3	0.52	0.14
138	Meramec	2104	4	0.52	0.14
138	Rush Island	6155	1	0.52	0.14
138	Rush Island	6155	2	0.52	0.14
138	Sioux	2107	1	0.52	0.14
138	Sioux	2107	2	0.52	0.14
139	Coffeen	861	01	0.72	0.33
139	Coffeen	861	02	0.72	0.33
139	Hutsonville	863	05	0.72	0.33
139	Hutsonville	863	06	0.72	0.33
139	Meredosia	864	01	0.72	0.33
139	Meredosia	864	02	0.72	0.33
139	Meredosia	864	03	0.72	0.33
139	Meredosia	864	04	0.72	0.33
139	Meredosia	864	05	0.72	0.33
140	Brandon Shores	602	1	0.56	0.35
140	Brandon Shores	602	2	0.56	0.35
141	Cross	130	1	0.46	0.21
141	Dolphus M Grainger	3317	1	0.46	0.21
141	Dolphus M Grainger	3317	2	0.46	0.21
141	Jefferies	3319	3	0.46	0.21
141	Jefferies	3319	4	0.46	0.21
141	Winyah	6249	1	0.46	0.21
142	Elrama	3098	1	0.66	0.51
142	Elrama	3098	2	0.66	0.51

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
142	Elrama	3098	3	0.66	0.51
142	Elrama	3098	4	0.66	0.51
145	Asheville	2706	1	0.44	0.27
145	Asheville	2706	2	0.44	0.27
145	Cape Fear	2708	5	0.44	0.27
145	Cape Fear	2708	6	0.44	0.27
145	Crystal River	628	1	0.44	0.27
145	Crystal River	628	2	0.44	0.27
145	Crystal River	628	4	0.44	0.27
145	Crystal River	628	5	0.44	0.27
145	H B Robinson	3251	1	0.44	0.27
145	H F Lee Steam Electric Plant	2709	1	0.44	0.27
145	H F Lee Steam Electric Plant	2709	2	0.44	0.27
145	H F Lee Steam Electric Plant	2709	3	0.44	0.27
145	L V Sutton	2713	1	0.44	0.27
145	L V Sutton	2713	2	0.44	0.27
145	L V Sutton	2713	3	0.44	0.27
145	Mayo	6250	1A	0.44	0.27
145	Mayo	6250	1B	0.44	0.27
145	Roxboro	2712	1	0.44	0.27
145	Roxboro	2712	2	0.44	0.27
145	Roxboro	2712	3A	0.44	0.27
145	Roxboro	2712	3B	0.44	0.27
145	Roxboro	2712	4A	0.44	0.27
145	Roxboro	2712	4B	0.44	0.27
145	W H Weatherspoon	2716	1	0.44	0.27
145	W H Weatherspoon	2716	2	0.44	0.27
145	W H Weatherspoon	2716	3	0.44	0.27
148	Allen	3393	1	0.56	0.38
148	Allen	3393	2	0.56	0.38
148	Allen	3393	3	0.56	0.38
148	Bull Run	3396	1	0.56	0.38
148	Colbert	47	1	0.56	0.38
148	Colbert	47	2	0.56	0.38
148	Colbert	47	3	0.56	0.38
148	Colbert	47	4	0.56	0.38
148	Colbert	47	5	0.56	0.38
148	Cumberland	3399	1	0.56	0.38
148	Cumberland	3399	2	0.56	0.38
148	Gallatin	3403	1	0.56	0.38
148	Gallatin	3403	2	0.56	0.38
148	Gallatin	3403	3	0.56	0.38
148	Gallatin	3403	4	0.56	0.38

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
148	John Sevier	3405	1	0.56	0.38
148	John Sevier	3405	2	0.56	0.38
148	John Sevier	3405	3	0.56	0.38
148	John Sevier	3405	4	0.56	0.38
148	Johnsonville	3406	1	0.56	0.38
148	Johnsonville	3406	10	0.56	0.38
148	Johnsonville	3406	2	0.56	0.38
148	Johnsonville	3406	3	0.56	0.38
148	Johnsonville	3406	4	0.56	0.38
148	Johnsonville	3406	5	0.56	0.38
148	Johnsonville	3406	6	0.56	0.38
148	Johnsonville	3406	7	0.56	0.38
148	Johnsonville	3406	8	0.56	0.38
148	Johnsonville	3406	9	0.56	0.38
148	Kingston	3407	1	0.56	0.38
148	Kingston	3407	2	0.56	0.38
148	Kingston	3407	3	0.56	0.38
148	Kingston	3407	4	0.56	0.38
148	Kingston	3407	5	0.56	0.38
148	Kingston	3407	6	0.56	0.38
148	Kingston	3407	7	0.56	0.38
148	Kingston	3407	8	0.56	0.38
148	Kingston	3407	9	0.56	0.38
148	Paradise	1378	1	0.56	0.38
148	Paradise	1378	2	0.56	0.38
148	Paradise	1378	3	0.56	0.38
148	Shawnee	1379	1	0.56	0.38
148	Shawnee	1379	2	0.56	0.38
148	Shawnee	1379	3	0.56	0.38
148	Shawnee	1379	4	0.56	0.38
148	Shawnee	1379	5	0.56	0.38
148	Shawnee	1379	6	0.56	0.38
148	Shawnee	1379	7	0.56	0.38
148	Shawnee	1379	8	0.56	0.38
148	Shawnee	1379	9	0.56	0.38
148	Widows Creek	50	1	0.56	0.38
148	Widows Creek	50	2	0.56	0.38
148	Widows Creek	50	3	0.56	0.38
148	Widows Creek	50	4	0.56	0.38
148	Widows Creek	50	5	0.56	0.38
148	Widows Creek	50	6	0.56	0.38
148	Widows Creek	50	7	0.56	0.38
148	Widows Creek	50	8	0.56	0.38



## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
149	Pulliam	4072	3	0.47	0.47
149	Pulliam	4072	4	0.47	0.47
149	Pulliam	4072	5	0.47	0.47
149	Pulliam	4072	6	0.47	0.47
149	Pulliam	4072	7	0.47	0.47
149	Pulliam	4072	8	0.47	0.47
149	Weston	4078	1	0.47	0.47
149	Weston	4078	2	0.47	0.47
149	Weston	4078	3	0.47	0.47
150	DTE Stoneman, LLC	4146	B1	0.46	0.37
150	DTE Stoneman, LLC	4146	B2	0.46	0.37
151	Duck Creek	6016	1	0.46	0.21
151	E D Edwards	856	1	0.46	0.21
151	E D Edwards	856	2	0.46	0.21
151	E D Edwards	856	3	0.46	0.21
200	Dyneyg Danskammer	2480	3	0.40	0.28
200	Dyneyg Danskammer	2480	4	0.40	0.28
201	Four Corners Steam Elec Station	2442	1	0.60	0.55
201	Four Corners Steam Elec Station	2442	2	0.60	0.55
201	Four Corners Steam Elec Station	2442	3	0.60	0.55
201	Four Corners Steam Elec Station	2442	4	0.60	0.55
201	Four Corners Steam Elec Station	2442	5	0.60	0.55
299	E W Brown	1355	1	0.45	0.28
299	E W Brown	1355	2	0.45	0.28
299	E W Brown	1355	3	0.45	0.28
299	Ghent	1356	1	0.45	0.28
299	Ghent	1356	2	0.45	0.28
299	Ghent	1356	3	0.45	0.28
299	Ghent	1356	4	0.45	0.28
299	Green River	1357	4	0.45	0.28
299	Green River	1357	5	0.45	0.28
299	Tyrone	1361	5	0.45	0.28
300	Big Bend	645	BB01	0.76	0.49
300	Big Bend	645	BB02	0.76	0.49
300	Big Bend	645	BB03	0.76	0.49
300	Big Bend	645	BB04	0.76	0.49
303	Ashtabula	2835	7	0.52	0.28
303	Bay Shore	2878	1	0.52	0.28
303	Bay Shore	2878	2	0.52	0.28
303	Bay Shore	2878	3	0.52	0.28
303	Bay Shore	2878	4	0.52	0.28
303	Bruce Mansfield	6094	1	0.52	0.28
303	Bruce Mansfield	6094	2	0.52	0.28

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
303	Bruce Mansfield	6094	3	0.52	0.28
303	Eastlake	2837	1	0.52	0.28
303	Eastlake	2837	2	0.52	0.28
303	Eastlake	2837	3	0.52	0.28
303	Eastlake	2837	4	0.52	0.28
303	Eastlake	2837	5	0.52	0.28
303	Lake Shore	2838	18	0.52	0.28
303	R E Burger	2864	5	0.52	0.28
303	R E Burger	2864	6	0.52	0.28
303	R E Burger	2864	7	0.52	0.28
303	R E Burger	2864	8	0.52	0.28
303	W H Sammis	2866	1	0.52	0.28
303	W H Sammis	2866	2	0.52	0.28
303	W H Sammis	2866	3	0.52	0.28
303	W H Sammis	2866	4	0.52	0.28
303	W H Sammis	2866	5	0.52	0.28
303	W H Sammis	2866	6	0.52	0.28
303	W H Sammis	2866	7	0.52	0.28
305	Belews Creek	8042	1	0.48	0.22
305	Belews Creek	8042	2	0.48	0.22
305	Buck	2720	5	0.48	0.22
305	Buck	2720	6	0.48	0.22
305	Buck	2720	7	0.48	0.22
305	Buck	2720	8	0.48	0.22
305	Buck	2720	9	0.48	0.22
305	Cayuga	1001	1	0.48	0.22
305	Cayuga	1001	2	0.48	0.22
305	Cliffside	2721	1	0.48	0.22
305	Cliffside	2721	2	0.48	0.22
305	Cliffside	2721	3	0.48	0.22
305	Cliffside	2721	4	0.48	0.22
305	Cliffside	2721	5	0.48	0.22
305	Dan River	2723	1	0.48	0.22
305	Dan River	2723	2	0.48	0.22
305	Dan River	2723	3	0.48	0.22
305	East Bend	6018	2	0.48	0.22
305	Edwardsport	1004	7-1	0.48	0.22
305	Edwardsport	1004	7-2	0.48	0.22
305	Edwardsport	1004	8-1	0.48	0.22
305	G G Allen	2718	1	0.48	0.22
305	G G Allen	2718	2	0.48	0.22
305	G G Allen	2718	3	0.48	0.22
305	G G Allen	2718	4	0.48	0.22

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
305	G G Allen	2718	5	0.48	0.22
305	Gibson	6113	1	0.48	0.22
305	Gibson	6113	2	0.48	0.22
305	Gibson	6113	3	0.48	0.22
305	Gibson	6113	4	0.48	0.22
305	Gibson	6113	5	0.48	0.22
305	Marshall	2727	1	0.48	0.22
305	Marshall	2727	2	0.48	0.22
305	Marshall	2727	3	0.48	0.22
305	Marshall	2727	4	0.48	0.22
305	R Gallagher	1008	1	0.48	0.22
305	R Gallagher	1008	2	0.48	0.22
305	R Gallagher	1008	3	0.48	0.22
305	R Gallagher	1008	4	0.48	0.22
305	Riverbend	2732	10	0.48	0.22
305	Riverbend	2732	7	0.48	0.22
305	Riverbend	2732	8	0.48	0.22
305	Riverbend	2732	9	0.48	0.22
305	W S Lee	3264	1	0.48	0.22
305	W S Lee	3264	2	0.48	0.22
305	W S Lee	3264	3	0.48	0.22
305	Wabash River Gen Station	1010	1	0.48	0.22
305	Wabash River Gen Station	1010	2	0.48	0.22
305	Wabash River Gen Station	1010	3	0.48	0.22
305	Wabash River Gen Station	1010	4	0.48	0.22
305	Wabash River Gen Station	1010	5	0.48	0.22
305	Wabash River Gen Station	1010	6	0.48	0.22
307	Miami Fort Generating Station	2832	5-1	0.48	0.36
307	Miami Fort Generating Station	2832	5-2	0.48	0.36
307	Miami Fort Generating Station	2832	6	0.48	0.36
307	Miami Fort Generating Station	2832	7	0.48	0.36
307	Miami Fort Generating Station	2832	8	0.48	0.36
307	W H Zimmer Generating Station	6019	1	0.48	0.36
307	Walter C Beckjord Generating Station	2830	1	0.48	0.36
307	Walter C Beckjord Generating Station	2830	2	0.48	0.36
307	Walter C Beckjord Generating Station	2830	3	0.48	0.36
307	Walter C Beckjord Generating Station	2830	4	0.48	0.36
307	Walter C Beckjord Generating Station	2830	5	0.48	0.36

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
307	Walter C Beckjord Generating Station	2830	6	0.48	0.36
308	Big Sandy	1353	BSU1	0.56	0.34
308	Big Sandy	1353	BSU2	0.56	0.34
308	Cardinal	2828	1	0.56	0.34
308	Cardinal	2828	2	0.56	0.34
308	Cardinal	2828	3	0.56	0.34
308	Clinch River	3775	1	0.56	0.34
308	Clinch River	3775	2	0.56	0.34
308	Clinch River	3775	3	0.56	0.34
308	Conesville	2840	3	0.56	0.34
308	Conesville	2840	4	0.56	0.34
308	Conesville	2840	5	0.56	0.34
308	Conesville	2840	6	0.56	0.34
308	Flint Creek Power Plant	6138	1	0.56	0.34
308	Gen J M Gavin	8102	1	0.56	0.34
308	Gen J M Gavin	8102	2	0.56	0.34
308	Glen Lyn	3776	51	0.56	0.34
308	Glen Lyn	3776	52	0.56	0.34
308	Glen Lyn	3776	6	0.56	0.34
308	H W Pirkey Power Plant	7902	1	0.56	0.34
308	John E Amos	3935	1	0.56	0.34
308	John E Amos	3935	2	0.56	0.34
308	John E Amos	3935	3	0.56	0.34
308	Kammer	3947	1	0.56	0.34
308	Kammer	3947	2	0.56	0.34
308	Kammer	3947	3	0.56	0.34
308	Kanawha River	3936	1	0.56	0.34
308	Kanawha River	3936	2	0.56	0.34
308	Mitchell (WV)	3948	1	0.56	0.34
308	Mitchell (WV)	3948	2	0.56	0.34
308	Mountaineer (1301)	6264	1	0.56	0.34
308	Muskingum River	2872	1	0.56	0.34
308	Muskingum River	2872	2	0.56	0.34
308	Muskingum River	2872	3	0.56	0.34
308	Muskingum River	2872	4	0.56	0.34
308	Muskingum River	2872	5	0.56	0.34
308	Northeastern	2963	3313	0.56	0.34
308	Northeastern	2963	3314	0.56	0.34
308	Oklaunion Power Station	127	1	0.56	0.34
308	Phil Sporn	3938	11	0.56	0.34
308	Phil Sporn	3938	21	0.56	0.34
308	Phil Sporn	3938	31	0.56	0.34

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
308	Phil Sporn	3938	41	0.56	0.34
308	Phil Sporn	3938	51	0.56	0.34
308	Picway	2843	9	0.56	0.34
308	Rockport	6166	MB1	0.56	0.34
308	Rockport	6166	MB2	0.56	0.34
308	Tanners Creek	988	U1	0.56	0.34
308	Tanners Creek	988	U2	0.56	0.34
308	Tanners Creek	988	U3	0.56	0.34
308	Tanners Creek	988	U4	0.56	0.34
308	Welsh Power Plant	6139	1	0.56	0.34
308	Welsh Power Plant	6139	2	0.56	0.34
308	Welsh Power Plant	6139	3	0.56	0.34
310	Portland	3113	1	0.45	0.37
310	Portland	3113	2	0.45	0.37
310	Shawville	3131	1	0.45	0.37
310	Shawville	3131	2	0.45	0.37
310	Shawville	3131	3	0.45	0.37
310	Shawville	3131	4	0.45	0.37
310	Titus	3115	1	0.45	0.37
310	Titus	3115	2	0.45	0.37
310	Titus	3115	3	0.45	0.37
311	AES Cayuga, LLC	2535	1	0.45	0.21
311	AES Cayuga, LLC	2535	2	0.45	0.21
311	AES Greenidge	2527	4	0.45	0.21
311	AES Greenidge	2527	5	0.45	0.21
311	AES Greenidge	2527	6	0.45	0.21
311	AES Somerset (Kintigh )	6082	1	0.45	0.21
311	AES Westover (Goudey)	2526	11	0.45	0.21
311	AES Westover (Goudey)	2526	12	0.45	0.21
311	AES Westover (Goudey)	2526	13	0.45	0.21
313	Allen S King	1915	1	0.50	0.41
313	Black Dog	1904	3	0.50	0.41
313	Black Dog	1904	4	0.50	0.41
313	High Bridge	1912	3	0.50	0.41
313	High Bridge	1912	4	0.50	0.41
313	High Bridge	1912	5	0.50	0.41
313	High Bridge	1912	6	0.50	0.41
313	Minnesota Valley	1918	4	0.50	0.41
313	Riverside (1927)	1927	6	0.50	0.41
313	Riverside (1927)	1927	7	0.50	0.41
313	Riverside (1927)	1927	8	0.50	0.41
313	Sherburne County	6090	1	0.50	0.41
313	Sherburne County	6090	2	0.50	0.41

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
313	Sherburne County	6090	3	0.50	0.41
314	B C Cobb	1695	1	0.47	0.23
314	B C Cobb	1695	2	0.47	0.23
314	B C Cobb	1695	3	0.47	0.23
314	B C Cobb	1695	4	0.47	0.23
314	B C Cobb	1695	5	0.47	0.23
314	Dan E Karn	1702	1	0.47	0.23
314	Dan E Karn	1702	2	0.47	0.23
314	J C Weadock	1720	7	0.47	0.23
314	J C Weadock	1720	8	0.47	0.23
314	J H Campbell	1710	1	0.47	0.23
314	J H Campbell	1710	2	0.47	0.23
314	J H Campbell	1710	3	0.47	0.23
314	J R Whiting	1723	1	0.47	0.23
314	J R Whiting	1723	2	0.47	0.23
314	J R Whiting	1723	3	0.47	0.23
316	Avon Lake Power Plant	2836	10	0.64	0.38
316	Avon Lake Power Plant	2836	12	0.64	0.38
328	Dubuque	1046	1	0.46	0.32
328	Dubuque	1046	5	0.46	0.32
328	Lansing	1047	1	0.46	0.32
328	Lansing	1047	2	0.46	0.32
328	Lansing	1047	3	0.46	0.32
328	Milton L Kapp	1048	2	0.46	0.32
328	Prairie Creek	1073	3	0.46	0.32
328	Sixth Street	1058	2	0.46	0.32
328	Sixth Street	1058	3	0.46	0.32
328	Sixth Street	1058	4	0.46	0.32
328	Sixth Street	1058	5	0.46	0.32
328	Sutherland	1077	1	0.46	0.32
328	Sutherland	1077	2	0.46	0.32
336	F B Culley Generating Station	1012	2	0.50	0.15
336	F B Culley Generating Station	1012	3	0.50	0.15
337	Pleasant Prairie	6170	1	0.46	0.17
337	Pleasant Prairie	6170	2	0.46	0.17
337	Presque Isle	1769	3	0.46	0.17
337	Presque Isle	1769	4	0.46	0.17
337	Presque Isle	1769	5	0.46	0.17
337	Presque Isle	1769	6	0.46	0.17
337	Presque Isle	1769	7	0.46	0.17
337	Presque Isle	1769	8	0.46	0.17
337	Presque Isle	1769	9	0.46	0.17
337	South Oak Creek	4041	5	0.46	0.17

## 2007 Acid Rain Program NOx Averaging Plan Summary

Averaging Plan ID	Facility Name	Facility ID (ORISPL)	Unit ID	Plan Limit	Plan Rate
337	South Oak Creek	4041	6	0.46	0.17
337	South Oak Creek	4041	7	0.46	0.17
337	South Oak Creek	4041	8	0.46	0.17
337	Valley (WEPCO)	4042	1	0.46	0.17
337	Valley (WEPCO)	4042	2	0.46	0.17
337	Valley (WEPCO)	4042	3	0.46	0.17
337	Valley (WEPCO)	4042	4	0.46	0.17
368	Brandon Shores	602	1	0.56	0.35
368	Brandon Shores	602	2	0.56	0.35
375	Brandon Shores	602	1	0.56	0.35
375	Brandon Shores	602	2	0.56	0.35
375	C P Crane	1552	1	0.56	0.35
375	C P Crane	1552	2	0.56	0.35
375	Herbert A Wagner	1554	2	0.56	0.35
375	Herbert A Wagner	1554	3	0.56	0.35