NO_X BUDGET TRADING PROGRAM

2003 Progress and Compliance Report

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Introduction

The NO_X Budget Trading Program (NBP), is a market-based cap and trade program created to reduce emissions of nitrogen oxides (NO_X) from power plants and other large combustion sources in the eastern United States. NO_X is a prime ingredient in the formation of ground-level ozone (smog).

Building on prior efforts to reduce summertime NO_X emissions in the Northeast, eight northeastern states and the District of Columbia implemented the NBP in 2003. Eleven additional states joined the program in May 2004. NO_X emission levels and baselines for states that complied with the program in 2003, as well as for eleven additional states beginning compliance in 2004, are presented in this report. When fully implemented the NBP is expected to achieve significant reductions in summertime NO_X emissions across much of the eastern U.S.

This report finds that, in states that participated during the first year of the program, ozone season (May through September) NO_X emissions from power plants and other large combustion sources were reduced by more than 30 percent from 2002 levels. These emission reductions occurred despite an increase in heat input (a measure of power generation) at affected sources. Emissions have also been reduced by 70 percent from 1990 levels due to the combination of the NBP and other NO_X control programs. In 2003, of the total affected population of approximately 1,000 units, all but 7 were in compliance. NO_X emissions were reduced on days with peak emissions. In addition, the NO_X allowance market has been active.

In anticipation of entering the NBP and in response to other NO_X control programs, particularly annual NO_X reductions under the Acid Rain Program, the eleven states that did not participate in the program until 2004 have also made progress in reducing NO_X emissions. NO_X emissions in these states were approximately 50 percent below 1990 levels. In addition, sources successfully monitored and reported emissions for the first time in 2003.

Ground-level ozone, or smog, is formed from oxides of nitrogen (NO_X) and volatile organic compounds (VOCs) in the presence of sunlight and heat. Levels are highest during the hot summer months when sunlight is strongest. Ozone aggravates asthma, increases susceptibility to respiratory illnesses, and contributes to permanent lung damage. It can also damage forests, reduce the productivity of agricultural crops, and lead to the decay of monuments and buildings.

Ozone continues to be a pervasive air pollution problem. In April 2004, EPA released a list of 126 areas that do not meet the new health-based 8-hour ozone standard. In most cases, the Agency's findings are based on air quality data from 2001 through 2003. The ozone nonattain-

8-Hour Ozone Standard (promulgated in 1997):

The 8-hour standard is met when the 3-year average of the annual fourth highest daily maximum 8-hour average concentration is less than 0.08 ppm (parts per million).

What Does It Mean?

EPA collects ozone data on an hourly basis. Essentially, 8-hour average ozone concentrations at a monitor cannot exceed 0.08 ppm more than three days per year. For compliance purposes:

- Hourly ozone measurements are used to compute 8-hour average concentrations.
- The daily maximum 8-hour average is recorded for each day.
- For each year, the fourth highest daily maximum concentration is calculated.
- These annual fourth highest daily maximum concentrations are averaged over three-year periods.
- If the average exceeds 0.084 ppm (0.085 rounds up), the area is designated as a "nonattainment area."

ment areas, shown in Figure 1, include 474 counties that are home to 159 million people—more than half of all Americans. The majority of these areas are in the NO_X SIP call states. As many of the states with nonattainment areas plan for the future, the NBP emission reductions will be an essential component of their strategies for attaining the 8-hour ozone standard.

This report presents the results of the first year of the NBP for affected sources in states with compliance requirements in 2003, as well as emissions data for NBP sources in other states that reported their emissions in 2003. Along with the results of the first year of the NBP, this report presents baseline NO_X emission levels prior to the program (for 1990 and 2000). As the program matures and as EPA continues to assess progress, these baselines will help EPA analyze emission trends and the impact of NO_X reductions achieved by NBP sources.

8-hour Ozone Standard Attainment and Nonattainment Areas in the U.S. as of April 2004

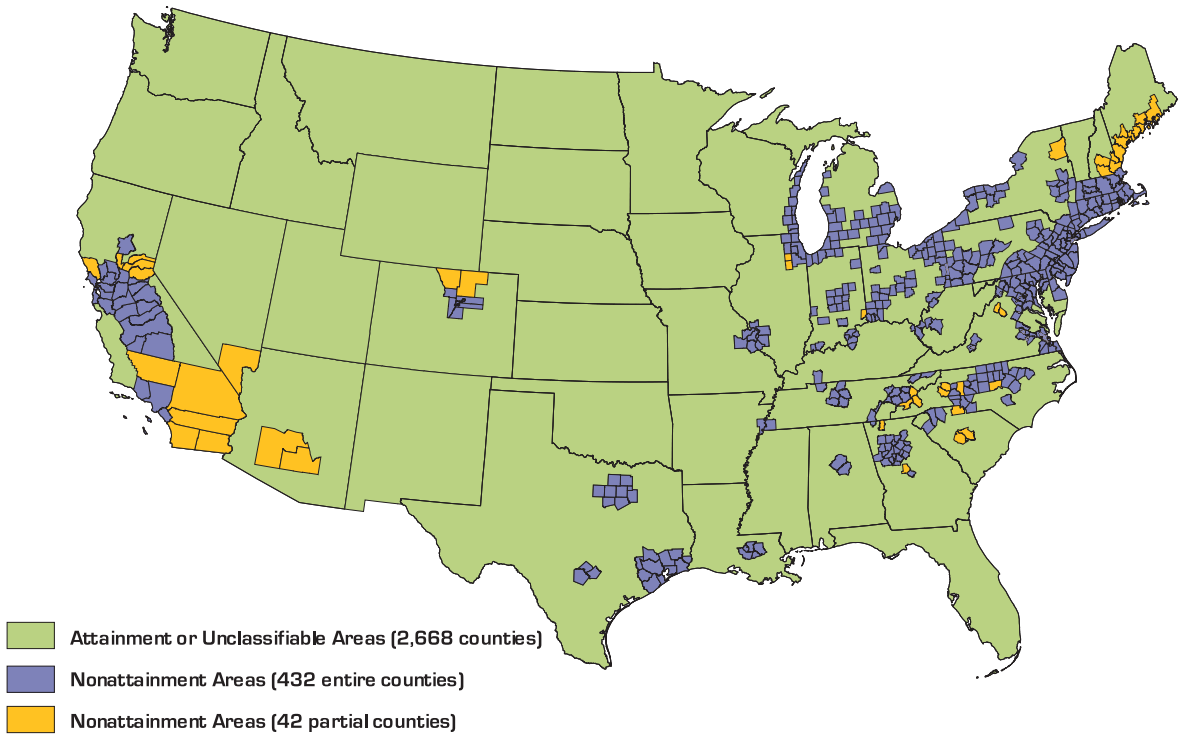


Figure 1
Many counties in the NBP region do not meet the 8-hour ozone standard.

Source: EPA

What Is the NO_x Budget Trading Program?

EPA and the States Have Taken Steps to Address Regional Transport

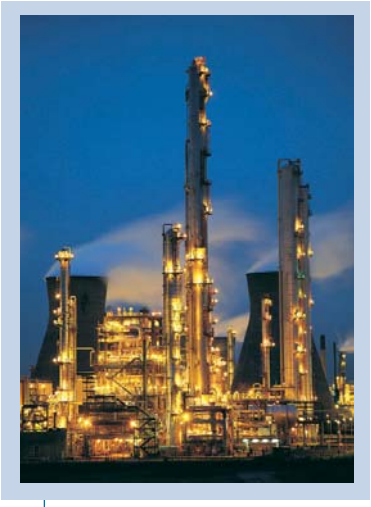
Created after years of scientific research and air quality data showed that upwind NO_x emissions can contribute significantly to ozone nonattainment in downwind states, the NO_x Budget Trading Program (NBP) follows several other major efforts to reduce NO_x from large, stationary sources. These initiatives include the Acid Rain Program, the Ozone Transport Commission's (OTC) NO_x Budget Program, New Source Review, New Source Performance Standards, application of Reasonably Available Control Technology to existing sources, and other state and local efforts.

Title IV of the 1990 Clean Air Act Amendments created the Acid Rain Program. This program, which achieved large SO_2 reductions from power plants through a cap and trade program, also required coal-fired power plants throughout the country to reduce their NO_x emission rates (NO_x emissions per unit of heat input). The goal of the Title IV NO_x program was to achieve and maintain an annual 2 million ton reduction in NO_x emissions from what emissions would have been in 2000 without the program. This goal has been surpassed. In 2002, due

A Quick Snapshot of National and Regional NO_x Control Programs

- **Acid Rain NO_x Reduction Program (ARP)**—Annual, national program controlling NO_x emissions from electric generating units. Sources are required to meet certain rates of NO_x emissions. There is no cap on emissions or allowance trading. The program began in 1996 with a second phase beginning in 2000.
- **Ozone Transport Commission (OTC) NO_x Reduction Programs**—States in the Northeast collaborated to achieve ozone-season NO_x reductions in several phases. In Phase I, sources were required to reduce their annual rates of NO_x emissions to meet Reasonably Available Control Technology requirements. In Phase II, states participated in a cap and trade program, the OTC NO_x Budget Program, to achieve additional reductions during the ozone season. In 2003, the OTC NO_x Budget Program was replaced by the larger NO_x Budget Trading Program.
- **NO_x State Implementation Plan (SIP) call**—Building upon analyses done by the Ozone Transport Assessment Group (OTAG), this rule was finalized by EPA in 1998. It required states significantly contributing to ozone nonattainment problems in other states to reduce their NO_x emissions during the ozone season beginning in 2003. This rule gave states the flexibility to reduce emissions through various means and gave them the option to participate in the NO_x Budget Trading Program.
- **NO_x Budget Trading Program (NBP)**—An ozone season cap and trade program intended to help states meet their NO_x SIP call required reductions. States in the OTC began to comply in 2003 and many other states across the East and Midwest began to reduce emissions in 2004. Twenty-one states and the District of Columbia are participating or will participate in the future.

to Title IV and other state actions, annual NO_X emissions from Acid Rain Program sources were more than 3 million tons lower than what they would have been without Title IV. However, because there is no cap on Acid Rain Program NO_X emissions, NO_X emissions may increase in the future as demand for electricity continues to grow.



The 1990 Clean Air Act Amendments also established the OTC to mitigate interstate transport of pollution in the Northeast. In September 1994, eleven states and the District of Columbia signed a Memorandum of Understanding (MOU) committing to reduce NO_X emissions throughout the region. In 1995, the OTC states required existing sources to meet Reasonably Available Control Technology (RACT) limits, and in 1999 through 2002, most of the OTC states achieved deep NO_X reductions through an ozone season cap and trade program for NO_X called the OTC NO_X Budget Program. The OTC states that participated in this trading program included Connecticut, Delaware, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and the District of Columbia.[1]

Separate from the activity in the OTC, EPA and the Environmental Council of the States formed the Ozone Transport Assessment Group (OTAG) in 1995. This workgroup brought together interested states and other stakeholders, including industry and environmental groups. Its primary objective was to assess the ozone transport problem and develop a strategy for reducing ozone pollution throughout the eastern half of the U.S.

The NO_X SIP Call Requires Significant Summertime NO_X Reductions across Eastern States

Based on the findings of OTAG, EPA proposed the NO_X SIP call in 1997 and finalized it in 1998. This rule concluded that NO_X emissions in twenty-two states and the District of Columbia contribute to ozone nonattainment in other states, and the rule required affected states to amend their state implementation plans (SIPs) and limit NO_X emissions. EPA set an ozone season NO_X budget for each affected state, essentially a cap on emissions from May 1 to September 30 in the state. The first control period was scheduled for the 2003 ozone season.

The NO_X SIP call did not mandate which sources must reduce emissions but, rather, required states to meet an overall cap (or budget) and gave them flexibility to develop control strategies to meet the cap. The NBP was developed to help states achieve highly cost-effective NO_X emission reductions.

[1] Vermont and Maine also signed the MOU but chose to meet their NO_X reduction goals outside of the trading program. Northern Virginia is also part of the OTC but did not sign the MOU and has not participated in the OTC NO_X reduction programs. This report, therefore, does not refer to Virginia as one of the OTC states in terms of trading program implementation.

The NBP is a cap and trade program for large electric generating units (EGUs) and large industrial boilers, turbines, and combined cycle units. In this type of program, the emissions budget sets a "cap" on emissions at a specified level. Sources are provided "allowances" (each allowance represents one ton of emissions), and each year the source must hold sufficient allowances to cover all NO_X tons the source emits during the ozone season. To monitor emissions, sources use continuous emission monitoring systems (CEMS) or other approved monitoring methods under EPA's stringent monitoring requirements (40 CFR Part 75). If a source's emissions are less than the allowances it holds, the source can sell the unused allowances or bank the allowances for use in a future ozone season.

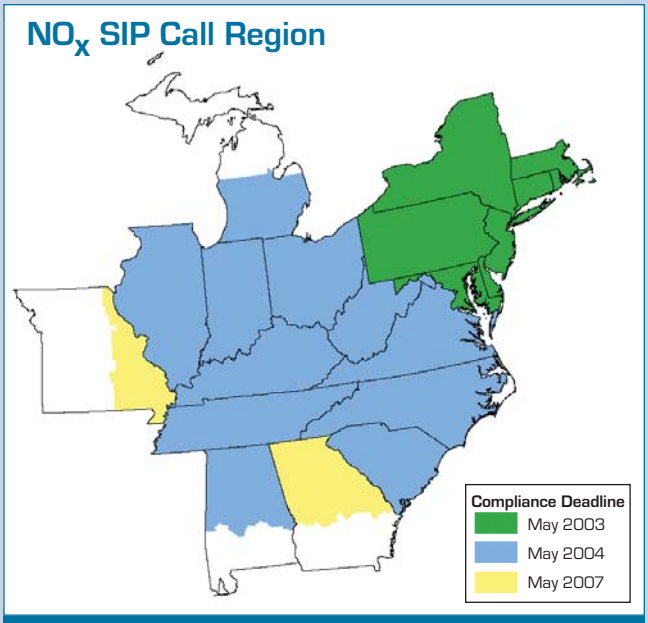


Figure 2
Participation in the NBP is phased in across the region.

Source: EPA

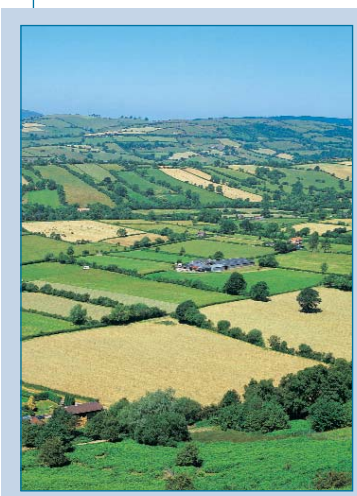
The NO_X SIP call faced many legal challenges. Although the U.S. Court of Appeals for the D.C. Circuit largely upheld most of the final rule, the court's decision resulted in Wisconsin and portions of Georgia and Missouri being removed from the list of areas where reductions are required (decreasing the number of affected states to 21 states and the District of Columbia).[2] In addition, the initial deadline for emission reductions under the NO_X SIP call was delayed until May 31, 2004. The OTC states had been set to achieve additional reductions in May 2003 under the OTC trading program. With the exception of New Hampshire, these states instead began to implement the NBP in May 2003.[3] New Hampshire is not affected under the NO_X SIP call and is not part of the NBP.

The OTC states were joined in the NO_X SIP call by Alabama, Illinois, Indiana, Kentucky, Michigan, North Carolina, Ohio, South Carolina, Tennessee, Virginia, and West Virginia on May 31, 2004 (see Figure 2). All of these states have chosen to meet the NO_X SIP call requirements through participation in the NBP. Affected portions of Georgia and Missouri will be required to comply with the NO_X SIP call in 2007. In Alabama, Georgia, Michigan, and Missouri, only a portion of each state is subject to the NO_X SIP call. Because Georgia and Missouri are not yet participating in the program, this report does not discuss results for these states.

[2] Due to litigation, EPA stayed the NO_X SIP call findings with respect to the 8-hour ozone standard for all affected states (65 FR 56245). On April 21, 2004, EPA's final NO_X SIP call Phase II Rulemaking determined that Wisconsin would not be included in the rule based on the 1-hour ozone standard (69 FR 21609). However, in the future, EPA may still consider lifting the stay with respect to the 8-hour standard for all affected states, including Wisconsin (69 FR 21608).

[3] The overall reduction goals set for the NBP under the NO_X SIP call are generally consistent with reduction levels planned for 2003 in the OTC states, and many program features, such as allowance tracking and reporting, are consistent between the two programs.

Understanding Baselines and Budgets: Guidelines for Program Evaluation



Progress in reducing emissions under a cap and trade program can be evaluated primarily in two ways. NO_X Budget Trading Program (NBP) emissions can be compared to:

- A baseline level of emissions (emissions from a period prior to the start of the program), or
- The reduction goals—or budgets—set for the NBP in the rules of each affected state.

EPA believes both assessment approaches can provide valuable insights on emission reductions achieved by the program, and the following sections clarify the assumptions and approaches used to derive baseline and budget levels for purposes of program evaluation. EPA plans to assess emission changes under the NBP on a regular basis.

Understanding Emission Levels Prior to the Program Can Help Us Measure Progress

To measure progress in reducing ozone season NO_X emissions, it is helpful to understand how emissions under the program compare to emissions prior to the program. EPA has chosen 1990 as a baseline year because it represents emission levels before the implementation of the 1990 Clean Air Act Amendments, and can document progress achieved under the amendments. The 1990 baseline period also was used throughout the Ozone Transport Assessment Group (OTAG) process, which led to the development of the NO_X SIP call.

For the 1990 ozone season emission estimates, data were derived from annual 1990 National Emission Inventory (NEI) data. The Ozone Transport Commission (OTC) states used the 1990 NEI data to develop a refined 1990 ozone season inventory as part of their efforts to reduce ozone in the region.[4] In this report, EPA is using the OTC's refined NEI inventory for the OTC states, and EPA has developed an ozone season inventory directly from the NEI for the non-OTC states.

Emissions have been reduced greatly since 1990, but many of these reductions result from control programs other than the NBP. To better reflect the reductions that can

[4] 1990 OTC NO_X Baseline Emission Inventory, U.S. EPA, EPA-454/R-95-013, July 1995.

be attributed to the NBP, emissions from the 2000 ozone season are also presented here. The year 2000 was chosen because most of the reductions due to the implementation of earlier NO_X regulatory programs under the 1990 Clean Air Act Amendments had already occurred by 2000, but sources were not yet implementing the NBP at that time. Emissions in 1990 and 2000 both provide valuable information for evaluating the extent to which the NBP and other control programs are providing reductions in NO_X levels.

In 2000, the stringent emissions reporting requirements for Acid Rain Program and OTC NO_X Budget Program sources provide accurate ozone season NO_X data for most of the NBP units, and those units account for well over 90 percent of all the emissions from affected sources in most NBP states in 2000. There is no comparable, quality-assured emissions monitoring data for units that are not affected by either of these programs. These units include industrial units and non-Acid Rain Program electric generating units outside the OTC region. Therefore, to approximate these 2000 ozone season NO_X emissions for industrial units, EPA has used the most recent NEI data available (1999). To approximate 2000 emissions for non-Acid Rain Program electric generating units, EPA used data developed to set the NO_X SIP call state budgets.[5]

Figure 3 shows the total 1990 and 2000 baseline ozone season NO_X emissions. Between 1990 and 2000, affected sources in the region reduced ozone season NO_X emissions by approximately 600,000 tons (34 percent), mainly due to the requirements of the annual Acid Rain Program and seasonal OTC program.

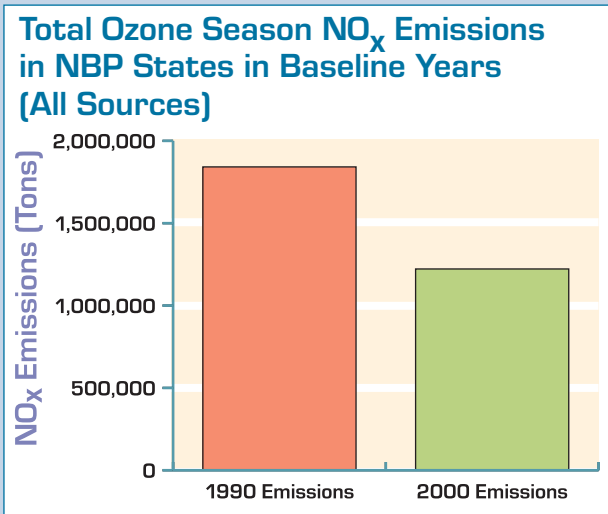


Figure 3
Ozone season NO_X emissions were reduced by over one third between 1990 and 2000 in the NBP region.

Source: EPA

States Were Required to Reduce Emissions to Meet a Budget

States were given budgets, or caps, on their ozone season emissions. These are the target levels they are expected to achieve under the NBP. The actual number of allowances a state allocates to sources for a certain year under the program may not be equal to the state's budget. States may hold back some of the budget to set aside allowances for new units, energy efficiency or renewable energy projects, or other pur-

[5] These data represent ozone season emission estimates for the 1995 or 1996 ozone season. However, EPA is using these data instead of NEI data because of difficulty in identifying non-Acid Rain electric generating units in the NEI. Because the emissions from these units represent only a small percentage of the overall emissions (typically less than 1 percent of the non-OTC states overall EGU emissions), EPA believes that the use of the 1995/1996 data will not significantly change the total 2000 ozone season emissions estimates presented in this report.

poses. Another factor that affects the amount of allowances allocated by each state is the Compliance Supplement Pool (CSP). The CSP is a pool of extra allowances included in the NO_X SIP call to help sources comply with the trading budgets in the first two years of the program. EPA established the CSP pool to address concerns about electricity reliability at the beginning of the program.

States may distribute their respective CSP allowances based on early reductions, directly to sources based on a demonstrated need, or by some combination of the two methods. In the OTC states, CSP allowances generally were distributed to sources based on a pro rata share of banked allowances that the sources held in the OTC NO_X Budget Program. Allowances from the CSP in a given state may be used to cover emissions during the first two control periods in that state. For the states that began to comply in 2003, CSP allowances can be used only in the 2003 and 2004 ozone seasons, while in most of the remaining NBP states, the allowances can be used only in the 2004 and 2005 ozone seasons.[6]

Figures 4 and 5 help illustrate the levels of reductions that would be needed to meet the emission reduction goals set by the NBP. Emissions for 1990 and 2000 show progress in reducing NO_X prior to the program. Budgets are presented to demonstrate the overall reduction goals of the program, and budgets with CSP allowances demonstrate the reduction goals in the early years of the program. By comparing baselines and budgets, it is easy to see how much further each state would be expected to reduce emissions to meet their target levels of emissions.

Baseline Emissions and Target Reduction Levels in OTC States Participating in the NO_X Budget Trading Program*

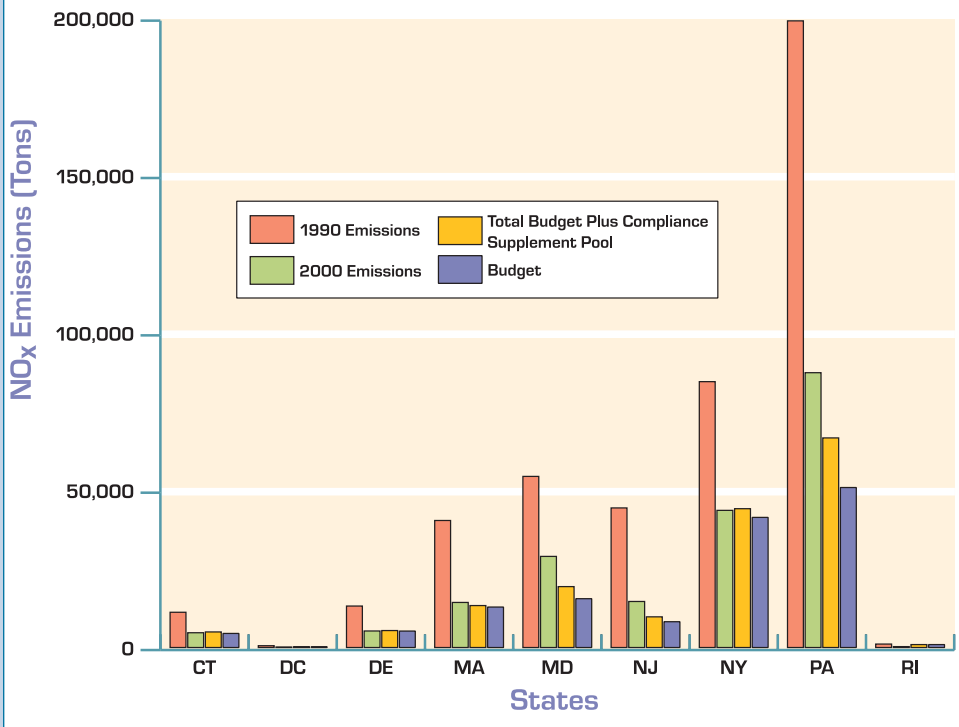


Figure 4
Through the OTC NO_X program, the Acid Rain Program, and other Clean Air Act requirements, the OTC states have made significant progress in reducing ozone season NO_X emissions from 1990 levels.

* New Hampshire participated in the OTC program but is not affected by the NBP.

Source: EPA

[6] In North Carolina, the state allowed certain sources to use CSP allowances to meet state reduction requirements in 2003, but those allowances would be deducted from their 2004 allowance allocations under the NBP.

Figures 4 and 5 show that all states in the NBP were required to achieve substantial reductions from 1990 levels to meet their budgets. By 2000, the OTC states had made significant progress toward that goal. They reduced emissions approximately 55 percent in the region through the OTC NO_X program, the Acid Rain Program, and other Clean Air Act requirements. Because of this, overall, the OTC states generally only had to achieve small reductions between 2000 and 2003 to meet the target reductions for the NBP.

While the OTC states were well on their way to meeting their budgets by 2000, the non-OTC states generally still had more work to do to meet their budgets. Between 1990 and 2000, the non-OTC states had reduced NO_X emissions by approximately 27 percent through the Acid Rain Program and other Clean Air Act requirements, but they still had to reduce emissions substantially to meet their target reductions for the NBP. Note that the scale in Figure 5 reflecting NO_X emissions in states outside the OTC is different from the scale in Figure 4 for the OTC states.

Baseline Emissions and Target Reduction Levels in Non-OTC States Participating in the NO_X Budget Trading Program as of May 2004*

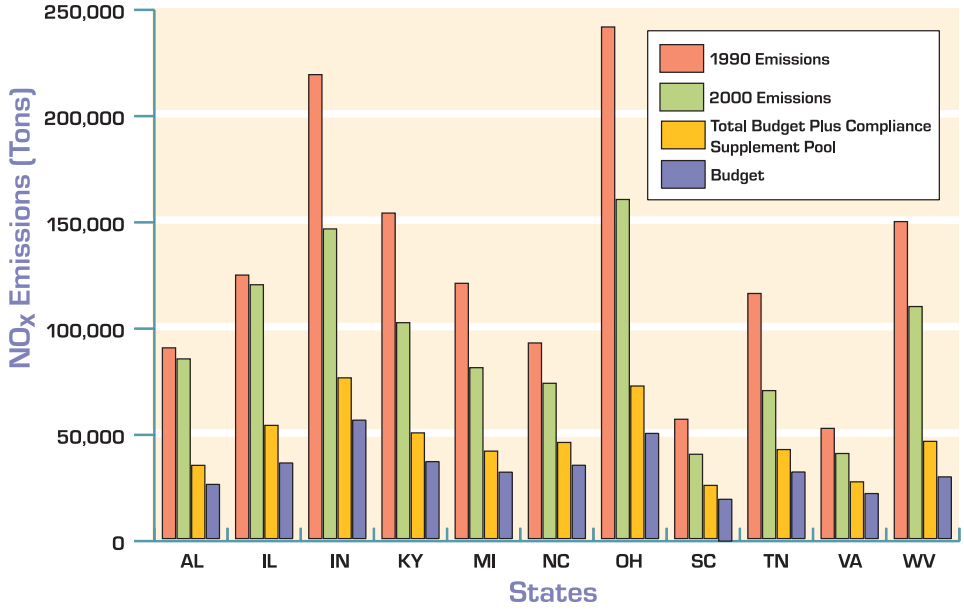


Figure 5
Through the Acid Rain Program and other Clean Air Act requirements, the non-OTC states have achieved more than a 25 percent reduction in ozone season NO_X emissions from 1990 levels and are poised to realize further significant reductions.

* Georgia and Missouri will not enter the NBP program until 2007.

Source: EPA

Based on the information in Figures 4 and 5, the overall NO_X allowance budgets with and without Compliance Supplement Pool NO_X allowances are:

OTC states:	139,593 (plus 25,031 CSP) allowances	=	164,624 allowances
Non-OTC states:	366,475 (plus 141,152 CSP) allowances	=	507,627 allowances
Regional total:	506,068 (plus 166,183 CSP) allowances	=	672,251 allowances

The NBP Affects a Significant Number of Units

Based on data reported to EPA, there are nearly 2,600 affected and operating units in the NBP states, including the states that joined the program in 2004. About 1,000 of these units are in states in the OTC that complied in 2003, while about 1,600 are in non-OTC states that did not have to comply in 2003.

The term "unit" means a fossil fuel-fired combustion boiler, turbine, or combined cycle unit. At a given facility, there may be multiple units. Electric generating units (EGUs) provide electricity for sale. Many EGUs in the NBP are also covered by the Acid Rain Program, although the NBP also includes other EGUs (such as some simple combustion turbines, cogenerators, and independent power producers) that are exempt from the Acid Rain Program. About 62 percent of all units in the NBP are also affected by the Acid Rain Program, while other EGUs comprise about 25 percent of the total units, and non-EGUs make up the other 13 percent.

Industrial units are sources that provide electricity or steam for use at their industrial facility, with little or no electricity generated for off-site use. The Acid Rain Program covers EGUs but not industrial units. However, the OTC trading program included industrial units, and EPA also decided to include industrial boilers, turbines, and combined cycle units in the NBP. Of the total affected NBP population of nearly 2,600 units, approximately 350, or about 13 percent, are industrial units. This is an increase from the OTC trading program, where about 6 percent of the sources were industrial units. Figure 6 provides a detailed breakdown of the classification of NBP units.

Units Affected by the NBP—A Comparison of Electric Generating Units and Industrial Units for OTC and Non-OTC States

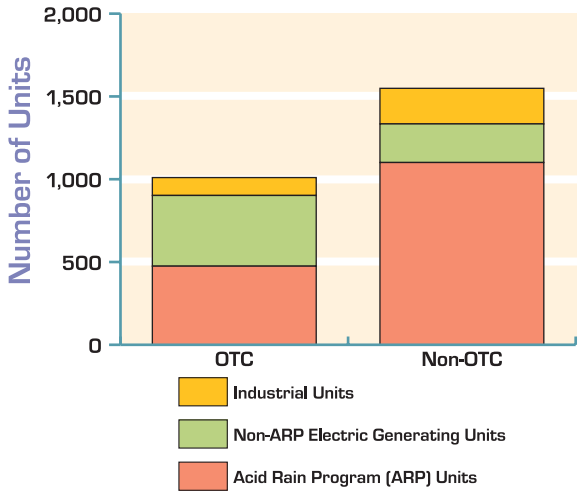


Figure 6
About 60 percent of the units affected by the NBP are also affected by the Acid Rain Program. In addition, the NBP incudes many other electric generating units, which were not included in the Acid Rain Program.

Source: EPA

The NBP includes boilers, turbines, and combined cycle units from a diverse set of industries. Some of the OTC states also have included other combustion units, such as cement kilns and process heaters. This diversity has contributed to a wide range of compliance strategies as facilities faced varying control costs and compliance needs to meet the requirements of, first, the OTC trading program and, later, the NBP. The various industrial sources participating in the program have also created additional trading flexibility for EGU compliance. So far, the inclusion of industrial sources appears to have been beneficial to the trading programs without creating disproportionate burdens on these sources. These sources have followed the same monitoring and reporting requirements as EGUs and have participated in the market, buying and selling allowances.

Performance under the NBP in 2003 Already Shows Positive Results

In 2003, only sources in the Ozone Transport Commission (OTC) states were required to hold allowances to cover NO_X emissions during the ozone season. In most of the other states affected by the NO_X SIP call, states required sources to begin monitoring and reporting ozone season emissions and heat input data in May 2003, even though the first control period did not begin for them until May 31, 2004.[7] Thus, the following sections generally focus on results in the OTC region, although there is a brief review of the reported 2003 emissions in the other states.

Summertime NO_X Emissions Have Declined across the Region

Figure 7 shows the combined 1990 baseline, 2000 baseline, trading budget, and 2003 emission levels for both the OTC states and the other NO_X Budget Trading Program (NBP) states. The 2003/2004 trading budget levels in Figure 7 are presented with and without the Compliance Supplement Pool (CSP) allowances. The budgets for OTC states represent the 2003 budgets, while the budgets for the other states represent the first control period in 2004.

Regional Baselines, Trading Budgets, and 2003 NO_X Emissions*

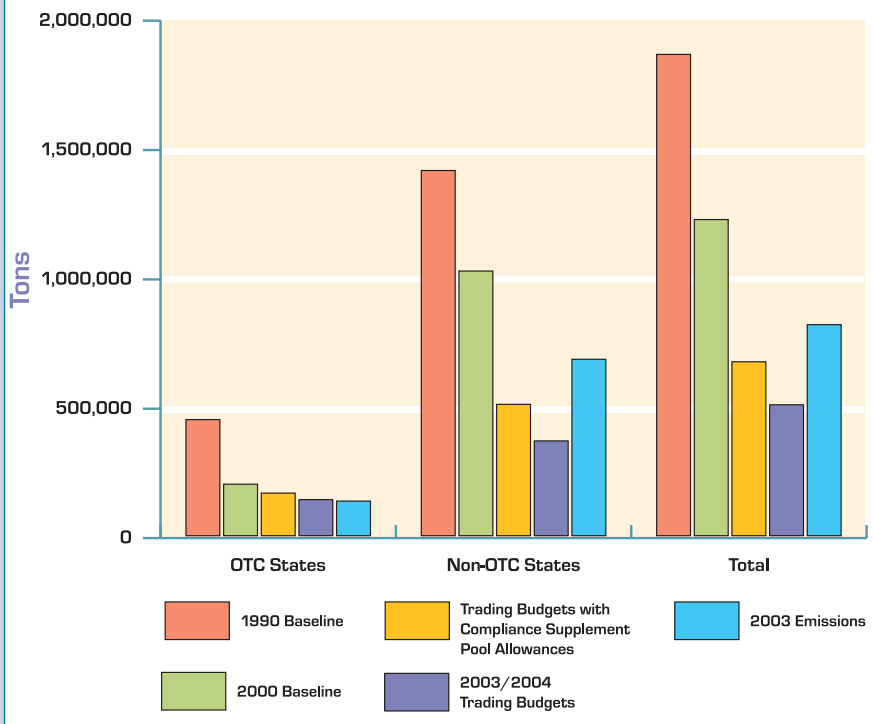


Figure 7
In 2003, ozone season NO_X emissions were down 56 percent from 1990 levels across the entire NBP region.

* Total emissions in the non-OTC states in 2003 were higher than the budget levels for those states because the first control period in those states did not begin until 2004. In the OTC states, 2003 emissions were lower than the budget with or without Compliance Supplement Pool (CSP) allowances.

Source: EPA

[7] In North Carolina, sources were not required to monitor and report data in 2003, although many sources did so voluntarily (over 75 percent of the sources provided data).

Despite the fact that the 2003 ozone season was not a control period in the non-OTC states, the universe of sources in the entire NBP area reduced emissions in 2003 by more than 50 percent from year 1990 baseline levels and by about 33 percent from year 2000 baseline levels.[8] In 2003, OTC states had reduced emissions 70 percent from 1990 levels and 33 percent from 2000 levels. While many of the reductions from the 1990 baseline represent other programs implemented under the Clean Air Act (such as NO_X reductions under the Acid Rain Program, the OTC trading program, and other state rules), the significant decrease since the 2000 baseline documents additional reductions that, at least to some degree, reflect early reductions as sources begin to implement controls and other operating changes in anticipation of the NBP.

OTC States Continue to Reduce below Total Allocated Allowances

During the OTC trading program, emissions were less than allowances in every year of the program (1999-2002). That trend continued under the NBP in 2003. In the participating OTC states, ozone season NO_X emissions in 2003 were approximately 134,000 tons, 18 percent less than the number of NBP allowances allocated in 2003. In addition, 2003 emissions in these states were more than 30 percent less than their emissions in 2002.

Emissions in many of the OTC states were below allocations in 2003 (see Figure 8). Exceptions included Delaware, where emissions were essentially the same as allowances allocated by the state (emissions were only about 20 tons higher than allocations). In addition, emissions in Maryland and New Jersey in 2003 were higher than allocations by about 1,750 tons in Maryland and about 1,250 tons in New Jersey. However, Maryland chose to only allocate about 2,200 of its CSP allowances, while New Jersey allocated about 5,000 fewer allowances than the budget authorized in the NO_X SIP call. New Jersey is using a smaller budget to ensure that local areas will reach attainment with the ozone standard. While sources in Maryland and New Jersey acquired allowances from sources in other states to comply with the program in 2003, emissions in all states, including Maryland and New Jersey, were significantly lower than 2002 levels.

OTC States in the NO_X Budget Trading Program: Ozone Season NO_X 1990 and 2000 Baselines, Budget, and 2003 Emissions

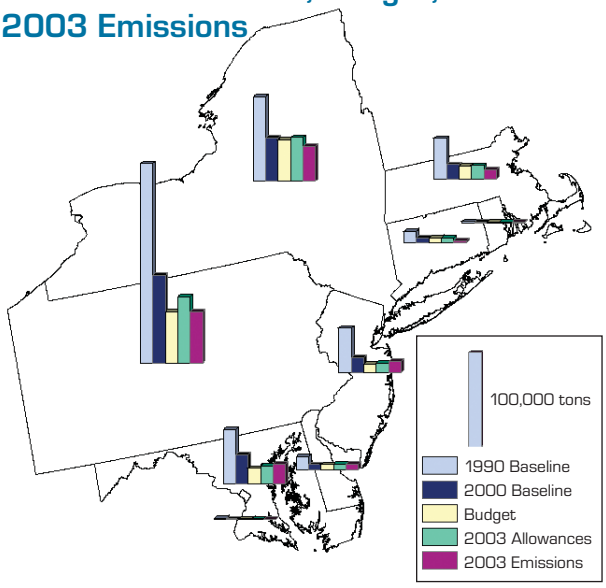


Figure 8
NO_X emissions from NBP units in the 2003 ozone season in the OTC region were below allocations.

Source: EPA

[8] Note that the information available in the non-OTC states excludes several North Carolina units that did not monitor in 2003. The reported emissions for North Carolina in 2003 reflect roughly 90 percent of the total ozone season emissions for affected sources, so the reductions from baseline levels shown in Figure 7 still generally hold even if all North Carolina sources had reported ozone season emissions in 2003.

Other NBP States Will Need to Reduce Emissions in 2004

In 2003, ozone season emissions were substantially lower than the 1990 and 2000 baseline levels even for the states that did not begin to comply with the program until 2004. Figure 9 shows budget levels for 2004 and beyond in these states. A comparison of 2003 emissions with 2004 budgets demonstrates that some additional reductions will be necessary for these states to eventually reach their budgets.

Due to litigation, the 2004 control period for these states began on May 31, instead of May 1. The allowance allocations for 2004, however, are based on a full five-month ozone season. Because of the shorter control period in 2004 and CSP allowances distributed in 2004 to help sources comply with the program, EPA anticipates that these states will have to achieve only modest reductions in 2004 to comply with the program. In 2005 and subsequent years, the control period will begin on May 1, and deeper reductions will be necessary.

Non-OTC States in the NO_X Budget Trading Program: Ozone Season NO_X 1990 and 2000 Baselines, Budget, and 2003 Emissions

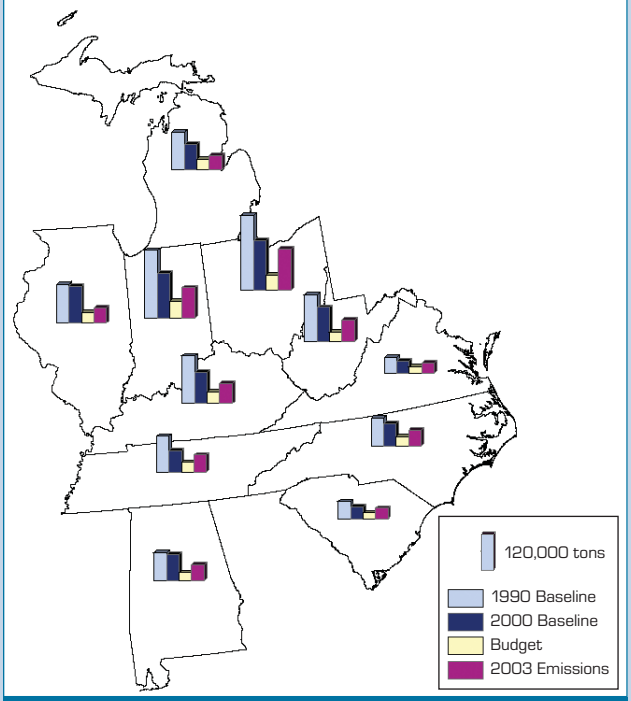


Figure 9
In the non-OTC states, 2003 ozone season NO_X emissions were far below 1990 and 2000 baseline levels, although further reductions will be necessary in 2004 to achieve compliance.

Source: EPA

Daily Emission Trends in OTC States Continue to Show Significant Decreases

Studies indicate that many of the health effects associated with ozone are attributable to short, peak exposures. The ozone standard was developed to protect against such short-term exposures. The NBP, however, is a seasonal program that ensures significant average regional NO_X reductions in the ozone season, and there have been concerns that a seasonal cap would not sufficiently reduce short-term, peak NO_X emissions that may occur on hot, high electricity demand days, when ozone formation often is a concern.

In the OTC states, the data from the OTC trading program in 1999 through 2002 and the NBP results for 2003 indicate that these trading programs have reduced average daily emissions, as well as the highest daily NO_X emissions in the ozone season. Average daily emissions and highest daily emissions from affected units declined significantly in 2003 as sources began to comply with the NBP (see Figure 10). This decline provides evidence that a seasonal trading program can

reduce peak daily emission levels. Although ozone formation is a complicated process that is strongly influenced by the weather, reducing peak daily emissions is expected to help reduce peak ozone concentrations.

These findings are consistent with a 2003 analysis of OTC emissions during ozone episodes between 1999 and 2002.[9] The study found that, while NO_X emissions from OTC sources tended to be higher during ozone episodes, these emission increases were related to increased electricity demand, and such increases would also have occurred even under a rate-based or command and control program. That study found that plant operators did not change or relax control strategies during high ozone periods.

Daily Ozone Season Emission Trends for Former OTC Trading States Only*

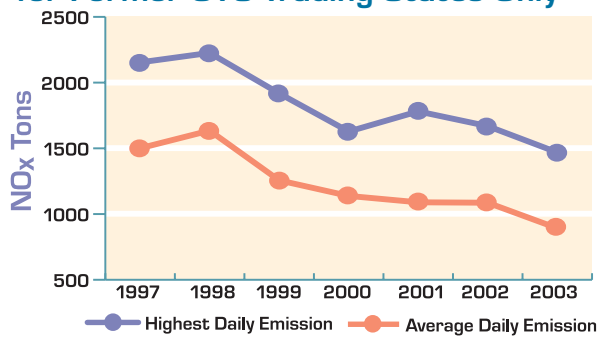


Figure 10
Emissions data for NBP units show that daily emissions have been reduced, even on the days with the highest emissions.

*1997 and 1998 data for Acid Rain Program units only; 1999-2003 data represent those units plus all other affected units.

Source: EPA

Emissions Reductions Were Achieved Despite Increases in Generation in the Control Region

Under a cap and trade program, there are many ways that sources can reduce emissions. One method is to utilize units with high emissions less and to shift generation to lower-emitting units within the program or to sources that are not affected by the program. For example, a plant operator could choose to run a unit with high emissions less often. The generation could be taken up by a lower emitting unit at the plant, by a plant outside of the control region that would not be affected by the program, or by a generator in another sector of the power industry (e.g., a new gas-fired unit). In the NBP, if generation shifts to units upwind of the control area with high rates of NO_X emissions, ozone would be transported into the region and the effectiveness of the program would be reduced. In 2003, with only a portion of the NBP states complying with the program, the potential for this type of shifting was a concern.

For the 2002 ozone season, OTC sources reported 1.6 million mmBtu of heat input. In 2003, that number increased to 1.7 million mmBtu. By comparison, heat input for Acid Rain Program units in non-OTC states declined from 4.9 million mmBtu in 2002 to 4.7 million mmBtu in 2003.

Heat input is the heat derived from the combustion of fuel in electric generation. It is a way to track utilization of affected units. Heat input levels from affected sources in the OTC states increased between 2002 and 2003 without the addi-

[9] Farrell, Alex. (2003) Temporal Hotspots in Emission Trading Programs: Evidence from the Ozone Transport Commission's NO_X Budget. Presented at Market Mechanisms and Incentives: Applications to Environmental Policy Conference. Washington, D.C.

tion of a significant number of sources. This indicates that, on average, sources in the OTC region were able to increase their generation while still complying with the NBP. Meanwhile, in the non-OTC NBP states, total heat input levels declined between 2002 and 2003 (based on data available for Acid Rain Program units only). While some sources in the OTC may have shifted their generation to sources in non-OTC states in response to the first year of the NBP, it appears that this generally was not a preferred compliance strategy. Sources in the OTC appear to have achieved the emission reductions from 2002 levels through means other than reducing utilization of affected sources and increasing power generation outside the region.

Sources Achieved a High Rate of Compliance in 2003

Under the NBP, sources must hold sufficient allowances to cover their ozone season emissions each year. Sources can maintain the allowances in compliance accounts (established for each unit) or in an overdraft account (established for each facility).[10] The overdraft account allows greater flexibility in "bubbling" between units, managing banked allowances from previous years, managing transferred allowances from other sites, or managing allowances purchased from other NBP participants. The sources have a two-month window after the end of the control period to move allowances between accounts (and buy or sell additional allowances) so that they can ensure their emissions do not exceed allowances held. Once that period ends, allowances may not be transferred into or out of these accounts while EPA reconciles emissions with allowance holdings and identifies the appropriate allowance deductions from the accounts for program compliance.

Nearly all of the NBP sources that participated in 2003, both EGUs and industrial units, held sufficient allowances to cover their emissions at the time that EPA performed reconciliation. There were seven sources that had allowance deficiencies (a total of 75 allowances). In cases where the source does not hold enough allowances to cover their emissions, the program requires a penalty deduction (3 allowances for each excess ton of emissions) from these sources' allocations for the next control period. Figure 11 summarizes the allowance reconciliation process for 2003.

NO_x Allowance Reconciliation Summary in 2003 (OTC States Only)

Total Allocated 2003 Allowances	**162,152**
Allowances Held in Compliance and Overdraft Accounts	148,938
Allowances Held in Other Accounts*	13,214
Allowances Deducted for 2003 Emissions	**133,659**
Banked Allowances**	**28,493**
Allowances Held in Compliance and Overdraft Accounts	15,279
Allowances Held in Other Accounts*	13,214
Penalty Allowances Deducted* (from future year allowances)**	**225**

* Other Accounts refer to general accounts in the NO_x Allowance Tracking System (NATS) that can be held by any source, individual or other organization, and state accounts.
** Does not reflect take back of 1,315 allowances by Pennsylvania for underutilization of specific sources.
*** These penalty deductions are made from future vintage year allowances, not 2003 allowances.

Figure 11

Source: EPA

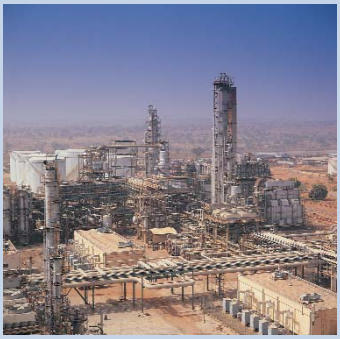
[10] New Jersey does not use overdraft accounts.

Market Activity, Banking, and Compliance Costs

At the start of a cap and trade program, it is worthwhile to evaluate how different components of the program are beginning to perform because a new market is becoming established, new sources are beginning to comply with the program, and many sources are facing more stringent requirements than ever before. This section examines some of these features, including how the NO_X allowance market is maturing, how sources are complying with the monitoring requirements, and what types of control technologies sources are beginning to install to meet long-term program requirements.

A Healthy Market in NO_X Allowances Continues under the NO_X Budget Trading Program

Allowance transfer activity can involve three main types of transfers:



- Transfers to or from the state as allowance allocations or allowance surrenders;
- Transfers within a company or between related entities (holding company transfers to an operating subsidiary, for example); and
- Transfers between separate economic entities. These transfers are categorized broadly as "economically significant trades."

In 2003, economically significant trades represented approximately 40 percent of the total transfers between entities other than a state. The economically significant trades provide the strongest indicator of true market activity because they represent an actual exchange of assets between unaffiliated participants.

Since 2003 is the first year of the NO_X Budget Trading Program (NBP), there are no previous data for all participating states to which the volume of trades can be accurately compared. The 2003 trading activity was higher than any year under the Ozone Transport Commission (OTC) program, and EPA expects a significant increase in 2004 as more sources comply with the program. As in the OTC trading program, industrial sources have actively traded allowances, and industrial sources represent about 8 percent of the economically significant trades at this time.

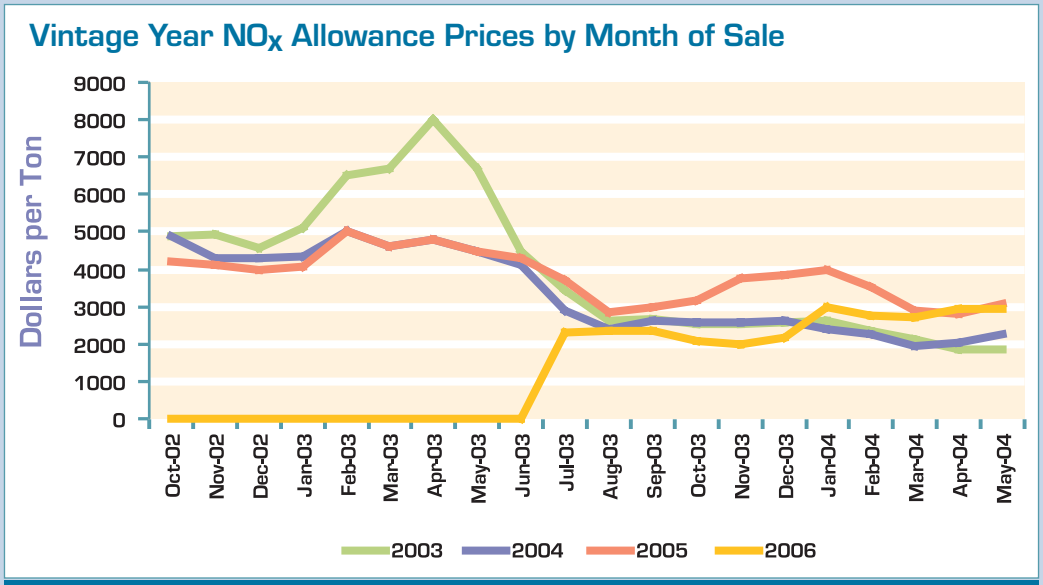


Figure 12
NBP allowance prices have fallen sharply after some early price spikes.

Source: Evolution Markets, LLC and Cantor Environmental Brokerage

The price for NO_X allowances continues to fluctuate as companies evaluate ongoing trends in control installations, energy demand, and other factors that affect the overall costs of control under the NBP. Recent prices are down appreciably from early 2003 (see Figure 12). This suggests that, as the program progresses and the uncertainty of allowance availability decreases, further price reductions may occur. This result is consistent with price behavior observed during implementation of the OTC trading program.

There may have been other factors that account for the drop in allowance prices. Uncertainty of natural gas prices may have led to higher allowance prices early in 2003. Prices then may have dropped due to increases in the supply of allowances. Extra allowances were available because CSP allowances were given for early reductions and because the start of compliance in the 2004 season was delayed from May 1 to May 31.

Banking Occurred in 2003 but Did Not Trigger Flow Control

Under the NBP, banking provisions allow companies to decrease emissions more than required early in the program, and save unused allowances for future use. This creates an economic incentive for sources to achieve deeper reductions early in the program. Banking allows for earlier environmental and health benefits and provides a pool of allowances available to address unexpected events or smooth the transition into deeper emission reductions.

If sources use a large number of banked allowances in one year, the elevated emissions could potentially reduce the environmental effectiveness of the NBP. The NBP's "progressive flow control" provisions were designed to discourage extensive use of banked allowances in a particular ozone season. Flow control is triggered when the total number of allowances banked for all sources exceeds 10 percent of the total budget for the next year. When flow control is triggered, EPA calculates the flow control ratio by dividing 10 percent of the total budget by the number of banked allowances (a larger bank will result in a smaller flow control ratio). The resulting flow control ratio indicates the percentage of banked allowances that can be deducted from a source's account in a ratio of one allowance per ton of emissions. The remaining percentage of banked allowances, if used, must be discounted and deducted at a rate of two allowances per one ton of emissions.

Because emissions were below allowable levels in the first year of the NBP, participating sources banked over 28,000 allowances, nearly 18 percent of the allowances they were allocated in 2003. Banking of greater than 10 percent of allowances would normally trigger flow control. However, in 2003, only the OTC states participated in the NBP control requirements. Given the entry of many additional states in 2004, the overall regional budget grew substantially, above 500,000 tons. Therefore, the number of allowances in the bank is less than 10 percent of the budget and flow control will not apply in 2004. If the broader universe of sources bank a comparable percentage of allowances in 2004, however, flow control is likely to be triggered in 2005.

Why No Flow Control in 2004?

Total number of banked allowances/Total NO_X Budget for 2004 season =

28,493/506,068 = 0.06

Because ratio is < 0.10, flow control is not triggered.

Nearly All Sources in NBP States Began Monitoring and Reporting in 2003

NBP units are required to comply with monitoring provisions specified in the Code of Federal Regulations (40 CFR Part 75, subpart H). The original focus of Part 75 was on electric generating units (EGUs), but EPA has broadened the rule over time to encompass industrial combustion units as well. The industrial units affected under the NBP have successfully met these monitoring requirements as part of their NBP compliance efforts.

Several options are available for NBP units to meet their monitoring requirements. These options are based on the type of unit, the type of fuel combusted, its operating status, and its level of emissions. NBP units are generally required to use a NO_X continuous emission monitoring system (CEMS). CEMS sample, analyze, and directly measure flue gas components on an ongoing basis. In addition to measuring NO_X concentration, units also must measure heat input to

calculate NO_X mass. To calculate heat input, any unit can use a stack flow CEMS, but oil- and gas-fired units instead can use fuel flow meters under Part 75. In addition to the basic NO_X CEMS option, alternative methods of quantifying NO_X emissions are available for certain types of units or for monitoring systems that meet specific criteria, including:

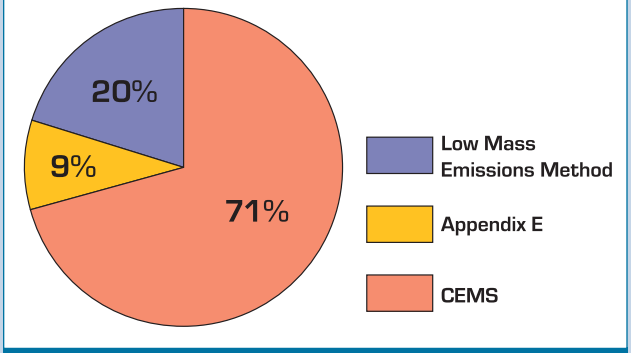


Figure 13
The vast majority of NBP units use NO_X Continuous Emission Monitoring Systems (CEMS) to comply with the monitoring requirements.

Source: EPA

- Part 75, Appendix E, which may be used only by gas and oil-fired peaking units (i.e., units that operate principally when electricity demand is at its highest). Under Appendix E, the NO_X emission rates and the heat input rate for the peaking unit are determined at a minimum of four loads covering the unit's operating range, and the test results are used to establish a correlation curve. Then, when the unit is running during the ozone season, NO_X emission rates are estimated based on the values on the curve that correspond to the unit's measured heat input rates. These Appendix E units all use fuel flow meters to measure heat input under Appendix D so that they do not use any CEMS.

- The low mass emissions (LME) methodology in section 75.19, which allows certain small or infrequently-operated gas and oil-fired units to use conservative fuel-specific default emission rates and estimates of hourly heat input to calculate the hourly NO_X emissions.

- Other monitoring alternatives approved by EPA on a case-by-case basis (subpart E).

As Figure 13 shows, of all the NBP units that are currently operating and that have submitted a monitoring plan, the majority (71 percent) use a NO_X CEMS to comply with the monitoring requirements (these units also use either a stack flow CEMS or Appendix D fuel flow meters to calculate heat input). Nine percent use Appendix E (with fuel flow meters), and 20 percent use the LME methodology. Less than 1 percent (only 4 units) currently use an approved alternative monitoring system under subpart E.

In general, although many units use the non-CEMS monitoring options, the highest emitting sources tend to use CEMS. About 96 percent of all ozone season emissions can be attributed to units that use CEMS as a monitoring method (see Figure 14).

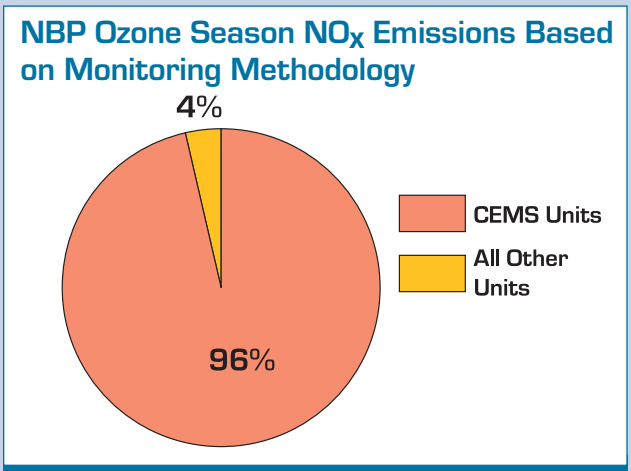


Figure 14
Units with a CEMS account for nearly all of the ozone season NO_X emissions.

Source: EPA

Sources Are Investing in NO_X Controls for Many Units

To meet the emission reduction targets of the NBP, sources can choose from a variety of compliance options. These options include decreasing generation from units that emit NO_X, modifying the basic combustion process to control the formation of NO_X, optimizing boiler operation to minimize NO_X production, using add-on controls, or purchasing allowances from other market participants. Sources can use any one or a combination of these options in a way that best fits their own circumstances.

To meet the NO_X emission limits of the Acid Rain Program, many electric generating units installed combustion controls, including low NO_X burner and overfire air technologies, which modify the combustion process to reduce formation of NO_X from the nitrogen present in the boiler combustion air and fuel. Advances in combustion control technologies continue to provide a cost-effective means of reducing emissions even further for many units.

Add-on control technologies, such as selective catalytic reduction (SCR) or selective non-catalytic reduction (SNCR), are frequently applied for NO_X control. SCR is typically used on larger units in the power sector that can achieve significant emission reductions in a highly cost-effective way. SCR and SNCR are control technologies that achieve NO_X reductions by injecting ammonia (or urea for SCR) into the flue gas within or downstream of the combustion unit to react with NO_X, forming nitrogen and water. SCR uses a catalyst to improve the efficiency of NO_X removal and to allow reactions to occur in a lower temperature range. For units that cannot use other methods to control NO_X, reburning of gas or coal is also an option. In this technique, gas or coal is injected downstream of the primary combustion zone to remove NO_X.

EPA analyses in support of recent NO_X reduction initiatives assume a 90 percent reduction efficiency for SCR on coal-fired boilers (down to 0.06 lb/mmBtu) and an 80 percent reduction efficiency for oil and gas units. For SNCR, EPA assumes a 35 percent reduction for coal-fired boilers and a 50 percent reduction for oil and gas units.[11]

[11] Documentation of EPA Modeling Applications (v2.1) Using the Integrated Planning Model, U.S. EPA, EPA 430/R-02-004, March 2002.

Sources report pollution control information, including installation dates, in monitoring plans submitted to EPA. EPA examined these data to determine which units had installed controls. While it is difficult to isolate the reason that a source installed a control, EPA assumed that most, if not all, installations in the last few years that were not in response to other programs (such as New Source Review permitting for new facilities or the Ozone Transport Commission trading program) were likely to be in response to the NO_X Budget Trading Program. Based on that review, there appear to be 75 coal-fired units that report using SCR controls to meet the NBP requirements. Nineteen coal-fired units (only 4 of which are industrial units) appear to have installed SNCR for the NBP. Most of this activity has been in states outside the OTC region, which will require the most significant reductions to meet the NBP requirements. However, since October 2002, when the OTC program was replaced by the NBP, sources in the OTC states have installed SCR controls on 5 units with approximately 4,300 MW capacity, and SNCR on 5 units with about 300 MW capacity. These data indicate that the implementation of the NBP appears to have been an impetus for many units to reduce their NO_X emissions through the use of add-on controls, especially in the states where significant reductions are needed to comply with the NBP.

The combined megawatt capacity of the add-on control installations implemented to meet the NBP requirements is over 47,000 MW (out of over 270,000 MW capacity for affected EGUs in the NBP region).

Ozone Levels Are Decreasing and NO_X Reductions Will Help States Meet the Ozone Standards

Ozone Levels Have Been Decreasing In Most Areas since 1990

EPA released a report on ozone trends in April 2004, finding that ozone levels nationwide were lower in 2003 than they have been since 1980 (The Ozone Report: Measuring Progress through 2003, www.epa.gov/airtrends/ozone.html). EPA's Ozone Report concluded that ozone improvements in 2003 were primarily due to favorable weather conditions across many parts of the nation. In addition, national NO_X and volatile organic carbon (VOC) emissions were at their lowest levels since 1970, due to successful programs controlling NO_X and VOCs.

Figure 15 shows national trends in the fourth highest daily maximum 8-hour ozone concentration (ppm, parts per million) from 1990 to 2003. Nationally, this measure of ozone exposure has been reduced by 9 percent since 1990.

In the East, many metropolitan areas have exhibited an overall improvement in ozone levels since 1990. In most areas, a temporary increase in ozone levels occurred during the mid-1990s, but this increase was followed by decreases in ozone levels beginning in 1998. The improvement in ozone levels in the late 1990s corresponds temporally with reductions in NO_X emissions from stationary sources (mainly through the annual NO_X requirements under

National 8-Hour Ozone Air Quality Trend, 1990-2003, Based on 3-Year Rolling Averages of Annual Fourth Highest Daily Maximum Ozone Concentrations

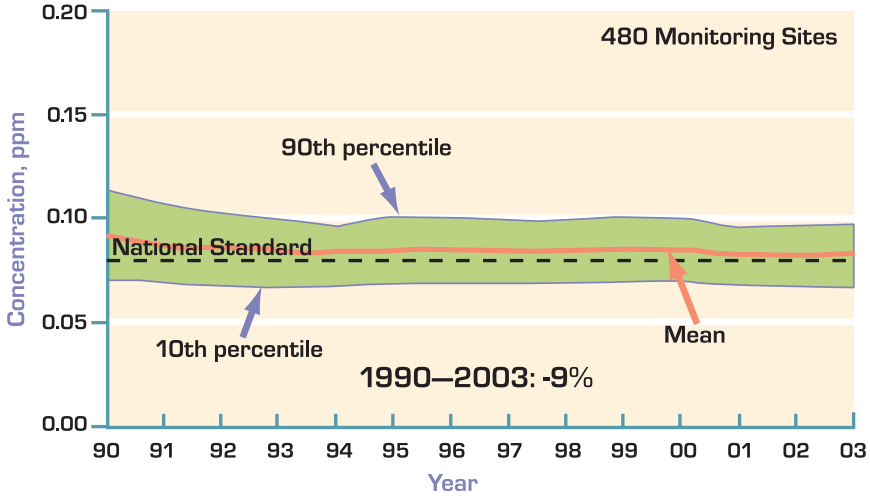


Figure 15
National ozone levels have decreased from 1990 to 2003.

*Black line indicates 8-hour ozone standard. Green band indicates the range of ozone levels from 1990 to 2003.

Source: EPA

the Acid Rain Program and the ozone-season NO_X reductions in the OTC states), along with the NO_X and VOC reductions from mobile sources that occurred during this time period.

A closer look at trends in measured ozone values on a regional level shows differences in progress made since 1990 in the NO_X Budget Trading Program (NBP) states. Figure 16 shows trends in fourth highest daily maximum 8-hour ozone concentration in EPA Regions that include NBP states. The greatest progress in reducing ozone concentrations since 1990 in the NBP states was achieved in the Northeast and Mid-Atlantic states (Regions 1 through 3). This may be partly due to the NO_X reductions achieved by the Ozone Transport Commission (OTC) states from 1999 through 2003. Region 1 (13 percent decrease from 1990 levels) and Region 2 (11 percent decrease) reduced ozone concentrations greater than the national average, while Region 3 (7 percent decrease) has significantly decreased ozone concentrations. Regions 4 and 5 had reductions in ozone concentrations of 6 percent but had lower ozone levels in 1990 and, therefore, less room for improvement. Even small improvements in ozone concentrations, however, are expected to result in substantial benefits to public health when a large population is exposed.

Trend in Fourth Highest Maximum 8-Hour Ozone Concentration (ppm) by EPA Region (1990-2003)

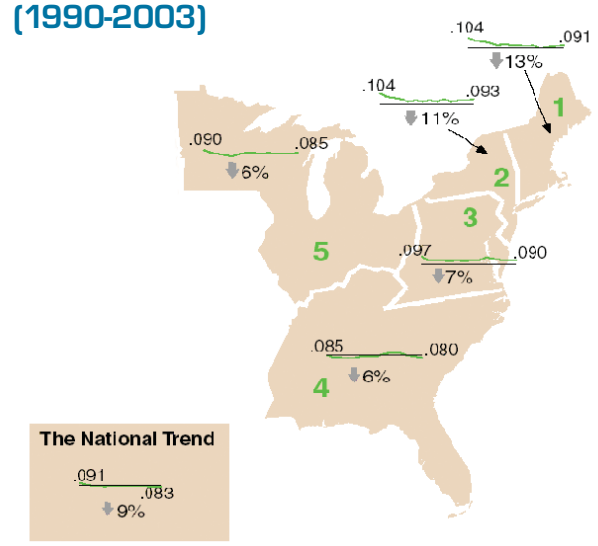


Figure 16
Ozone levels have decreased significantly from 1990 to 2003, especially in the northeastern United States.

*Black line indicates 8-hour ozone standard. Green line indicates ozone levels in the region from 1990 to 2003.

Source: EPA

Additional NO_X Reductions Will Help States Meet the Ozone Standards

Despite improvements in ozone air quality in many areas of the country, ozone continues to be a pervasive air pollution problem, with nearly 159 million people still living in 474 counties across the nation that are in nonattainment areas that do not meet the 8-hour ozone standard. The reductions anticipated under the NBP will help reduce emissions of NO_X and improve air quality.

New national mobile source regulations will also help local areas meet the 8-hour ozone standard by reducing NO_X from heavy-duty diesel engines, highway vehicles, and other mobile sources. Finally, to address the regional component of the residual ozone nonattainment problem, as well as the year-round problems of fine particles, regional haze, and acid deposition, EPA recently proposed the Clean Air Interstate Rule, which by 2015 would reduce annual NO_X emissions from the power industry in 29 eastern states and the District of Columbia by approximately 64 percent from 2002 levels.

Conclusions

When fully implemented, the NO_X Budget Trading Program (NBP) is expected to achieve a significant reduction in ozone season NO_X emissions across much of the eastern U.S. In 2003, affected sources already had reduced ozone season emissions by over one million tons from the estimated 1990 baseline levels and by over 400,000 tons from 2000 ozone season levels, even though the first control period in many states was not until 2004. In the Ozone Transport Commission (OTC) states where 2003 represented the first control period, sources emitted almost 20 percent below the required 2003 budget levels and more than 30 percent below their emissions in 2002. Of the total affected population of approximately 1,000 units, all but seven were in compliance. These achievements occurred despite a small increase in total heat input (plant utilization) in the affected OTC region.

Additional sources joined the program on May 31, 2004, and most of these sources already have at least one year's experience with NBP monitoring and reporting. The review of control data shows that many sources have been actively engaged in installation of pollution control equipment to achieve additional emission reductions. The NO_X allowance market remains active and allowance prices appear to have stabilized from early price spikes. Meanwhile, ozone levels have decreased in the past two decades, although ozone nonattainment remains a persistent problem. The NBP, along with additional control programs being proposed or implemented, should help address this problem. EPA will continue to evaluate all of these issues as additional NBP states begin the control requirements of the program in 2004.

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
CT	AES Thames	10675	CS01 (UNITA, UNITB)			146				
CT	AES Thames	10675	UNITA	102	74		73	0	1	
CT	AES Thames	10675	UNITB	102	74		73	0	1	
CT	AES Thames	10675	OVERDF	19	0		0	0	0	
CT	Ahlstrom Windsor Locks Cogeneration	10567	GT1	116	116	116	116	0	0	
CT	Ahlstrom Windsor Locks Cogeneration	10567	OVERDF	0	0		0	0	0	
CT	Branford	540	10	3	3	2	2	0	1	
CT	Branford	540	OVERDF	0	0		0	0	0	
CT	Bridgeport Energy	55042	BE1	53	19	41	19	0	0	
CT	Bridgeport Energy	55042	BE2	45	19	33	19	0	0	
CT	Bridgeport Energy	55042	OVERDF	38	98		36	0	62	
CT	Bridgeport Harbor Station	568	BHB1	0	0	0	0	0	0	
CT	Bridgeport Harbor Station	568	BHB2	34	34	31	31	0	3	
CT	Bridgeport Harbor Station	568	BHB3	1,125	850	791	791	0	59	
CT	Bridgeport Harbor Station	568	BHB4	0	4	3	3	0	1	
CT	Bridgeport Harbor Station	568	OVERDF	208	204		0	0	204	
CT	Capitol District Energy Center	50498	GT	95	95	5	5	0	90	
CT	Capitol District Energy Center	50498	OVERDF	0	0		0	0	0	
CT	Cos Cob	542	10	1	1	4	1	0	0	
CT	Cos Cob	542	11	1	1	4	1	0	0	
CT	Cos Cob	542	12	1	1	4	1	0	0	
CT	Cos Cob	542	OVERDF	2	10		9	0	1	
CT	Devon	544	CS0001 (7, 8)			88				
CT	Devon	544	7	168	8		8	0	0	
CT	Devon	544	8	153	8		8	0	0	
CT	Devon	544	10	0	0	2	0	0	0	
CT	Devon	544	11	9	0	2	0	0	0	
CT	Devon	544	12	9	0	2	0	0	0	
CT	Devon	544	13	9	0	2	0	0	0	
CT	Devon	544	14	9	0	2	0	0	0	
CT	Devon	544	OVERDF	21	99		82	0	17	
CT	Franklin Drive	561	10	1	4	3	3	0	1	
CT	Franklin Drive	561	OVERDF	0	0		0	0	0	
CT	Lake Road Generating Company	55149	LRG1	10	10	7	7	0	3	
CT	Lake Road Generating Company	55149	LRG2	21	21	11	11	0	10	
CT	Lake Road Generating Company	55149	LRG3	16	16	13	13	0	3	
CT	Lake Road Generating Company	55149	OVERDF	2	2		0	0	2	
CT	Middletown	562	2	148	10	48	10	0	0	
CT	Middletown	562	3	395	20	146	20	0	0	
CT	Middletown	562	4	144	7	25	7	0	0	
CT	Middletown	562	10	0	0	3	0	0	0	
CT	Middletown	562	OVERDF	3	253		185	0	68	
CT	Milford Power Project	55126	CT01	0	0	0	0	0	0	
CT	Milford Power Project	55126	CT02	0	0	0	0	0	0	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
CT	Milford Power Project	55126	OVERDF	0	0		0	0	0	
CT	Montville	546	5	101	5	8	5	0	0	
CT	Montville	546	6	177	9	64	9	0	0	
CT	Montville	546	OVERDF	35	75		58	0	17	
CT	New Haven Harbor	6156	NHB1	998	233	184	184	0	49	
CT	New Haven Harbor	6156	OVERDF	0	0		0	0	0	
CT	Norwalk Harbor Station	548	CS0001 (1, 2)			101				
CT	Norwalk Harbor Station	548	1	185	9		9	0	0	
CT	Norwalk Harbor Station	548	2	167	8		8	0	0	
CT	Norwalk Harbor Station	548	10	0	0	3	0	0	0	
CT	Norwalk Harbor Station	548	OVERDF	24	135		87	0	48	
CT	Norwich	880022	TRBINE	2	4	1	1	0	3	
CT	Norwich	880022	OVERDF	0	0		0	0	0	
CT	Pfizer	54236	5	28	19	17	17	0	2	
CT	Pfizer	54236	8	37	16	8	8	0	8	
CT	Pfizer	54236	OVERDF	10	10		0	0	10	
CT	Pratt & Whitney Willgoos Lab	880021	B5	5	5	0	0	0	5	
CT	Pratt & Whitney Willgoos Lab	880021	B6	4	4	0	0	0	4	
CT	Pratt & Whitney Willgoos Lab	880021	OVERDF	0	0		0	0	0	
CT	Pratt & Whitney, East Hartford	54605	001	12	12	7	7	0	5	
CT	Pratt & Whitney, East Hartford	54605	OVERDF	0	0		0	0	0	
CT	South Meadow Station	563	11A	1	5	5	5	0	0	
CT	South Meadow Station	563	11B	1	5	5	5	0	0	
CT	South Meadow Station	563	12A	1	5	5	5	0	0	
CT	South Meadow Station	563	12B	1	6	5	5	0	1	
CT	South Meadow Station	563	13A	1	5	5	5	0	0	
CT	South Meadow Station	563	13B	1	5	4	4	0	1	
CT	South Meadow Station	563	14A	1	2	2	2	0	0	
CT	South Meadow Station	563	14B	1	5	5	5	0	0	
CT	South Meadow Station	563	OVERDF	3	3		0	0	3	
CT	**South Norwalk Electric & Water[1]**	**6598**	**U7**	**0**	**7**	**10**	**7**	**0**	**0**	
CT	Sprague Paperboard - Sprague Mill	54657	1	77	107	98	98	0	9	
CT	Sprague Paperboard - Sprague Mill	54657	OVERDF	0	0		0	0	0	
CT	Torrington Terminal	565	10	1	2	1	1	0	1	
CT	Torrington Terminal	565	OVERDF	0	0		0	0	0	
CT	Tunnel	557	10	2	2	0	0	0	2	
CT	Tunnel	557	OVERDF	0	0		0	0	0	
CT	Wallingford Energy	55517	CT01	1	1	1	1	0	0	
CT	Wallingford Energy	55517	CT02	0	1	1	1	0	0	
CT	Wallingford Energy	55517	CT03	0	1	1	1	0	0	
CT	Wallingford Energy	55517	CT04	0	1	1	1	0	0	
CT	Wallingford Energy	55517	CT05	0	1	1	1	0	0	
CT	Wallingford Energy	55517	OVERDF	0	1		0	0	1	
CT	Waterside Power	880069	1	0	0	0	0	0	0	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
CT	Waterside Power	880069	2	1	1	1	1	0	0	
CT	Waterside Power	880069	3	1	1	2	1	0	0	
CT	Waterside Power	880069	OVERDF	0	1		1	0	0	
DC	Benning	603	15	80	101	21	21	0	80	
DC	Benning	603	16	117	151	34	34	0	117	
DC	Benning	603	OVERDF	0	0		0	0	0	
DC	GSA Central Heating	880004	3	0	25	18	18	0	7	
DC	GSA Central Heating	880004	4	0	0	0	0	0	0	
DC	GSA Central Heating	880004	OVERDF	0	0		0	0	0	
DE	Christiana Substation	591	11	5	5	3	3	0	2	
DE	Christiana Substation	591	14	6	6	2	2	0	4	
DE	Christiana Substation	591	OVERDF	0	0		0	0	0	
DE	Delaware City	592	10	5	5	2	2	0	3	
DE	Delaware City	592	OVERDF	0	0		0	0	0	
DE	Delaware City Refinery (Motiva)	52193	37H1	116	0	27	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	41H1	119	0	0	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	DCPP1	160	0	91	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	DCPP2	159	0	104	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	DCPP3	162	0	107	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	DCPP4	144	0	117	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	21H701	97	0	39	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	42H123	145	0	60	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	CATCOB	146	50	510	50	0	0	
DE	Delaware City Refinery (Motiva)	52193	COKCOB	123	39	236	39	0	0	
DE	Delaware City Refinery (Motiva)	52193	MECCU1	0	0	17	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	MECCU2	0	0	48	0	0	0	
DE	Delaware City Refinery (Motiva)	52193	OVERDF	89	1,389		1,261	0	128	
DE	Edge Moor	593	3	234	186	166	166	0	20	
DE	Edge Moor	593	4	400	448	433	433	0	15	
DE	Edge Moor	593	5	601	951	716	716	0	235	
DE	Edge Moor	593	10	4	4	1	1	0	3	
DE	Edge Moor	593	OVERDF	0	0		0	0	0	
DE	Hay Road	7153	1	229	139	26	26	0	113	
DE	Hay Road	7153	2	218	148	37	37	0	111	
DE	Hay Road	7153	5	1	71	32	32	0	39	
DE	Hay Road	7153	6	2	92	51	51	0	41	
DE	Hay Road	7153	7	4	44	21	21	0	23	
DE	Hay Road	7153	**3	189	149	36	36	0	113	
DE	Hay Road	7153	OVERDF	0	0		0	0	0	
DE	Indian River	594	1	187	196	336	196	0	0	
DE	Indian River	594	2	193	193	380	193	0	0	
DE	Indian River	594	3	368	368	421	368	0	0	
DE	Indian River	594	4	727	789	1,028	789	0	0	
DE	Indian River	594	10	14	8	6	6	0	2	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
DE	Indian River	594	OVERDF	48	670		619	0	51	
DE	Madison Street	596	10	4	4	0	0	0	4	
DE	Madison Street	596	OVERDF	0	0		0	0	0	
DE	McKee Run	599	1	20	20	9	9	0	11	
DE	McKee Run	599	2	53	45	8	8	0	37	
DE	McKee Run	599	3	119	127	127	127	0	0	
DE	McKee Run	599	OVERDF	13	13		0	0	13	
DE	NRG Energy Center Dover	880002	1	259	223	215	215	0	8	
DE	NRG Energy Center Dover	880002	2	0	4	1	1	0	3	
DE	NRG Energy Center Dover	880002	3	0	7	3	3	0	4	
DE	NRG Energy Center Dover	880002	OVERDF	0	100		0	0	100	
DE	Van Sant	7318	**11	7	7	3	3	0	4	
DE	Van Sant	7318	OVERDF	0	0		0	0	0	
DE	Warren F. Sam Beasley Pwr Station	7962	1	0	3	2	2	0	1	
DE	Warren F. Sam Beasley Pwr Station	7962	OVERDF	0	0		0	0	0	
DE	West Substation	597	10	7	7	1	1	0	6	
DE	West Substation	597	OVERDF	0	0		0	0	0	
MA	ANP Bellingham Energy Project	55211	1	0	0	17	0	0	0	
MA	ANP Bellingham Energy Project	55211	2	0	0	13	0	0	0	
MA	ANP Bellingham Energy Project	55211	OVERDF	62	62		31	0	31	
MA	ANP Blackstone Energy Company	55212	1	0	0	17	0	0	0	
MA	ANP Blackstone Energy Company	55212	2	0	0	20	0	0	0	
MA	ANP Blackstone Energy Company	55212	OVERDF	78	78		37	0	41	
MA	Bellingham	10307	CS1 (1, 2)			371				
MA	Bellingham	10307	1	0	0		0	0	0	
MA	Bellingham	10307	2	0	0		0	0	0	
MA	Bellingham	10307	OVERDF	683	663		371	0	292	
MA	Berkshire Power	55041	1	33	32	21	21	0	11	
MA	Berkshire Power	55041	OVERDF	0	0		0	0	0	
MA	Blackstone	1594	CS2 (11, 12)			20				
MA	Blackstone	1594	11	0	3		3	0	0	
MA	Blackstone	1594	12	0	0		0	0	0	
MA	Blackstone	1594	OVERDF	26	23		17	0	6	
MA	Brayton Point	1619	1	0	0	777	0	0	0	
MA	Brayton Point	1619	2	0	0	757	0	0	0	
MA	Brayton Point	1619	3	0	0	2,361	0	0	0	
MA	Brayton Point	1619	4	0	0	30	0	0	0	
MA	Brayton Point	1619	OVERDF	2,536	4,022		3,925	0	97	
MA	Canal Station	1599	1	0	0	561	0	0	0	
MA	Canal Station	1599	2	0	0	560	0	0	0	
MA	Canal Station	1599	OVERDF	1,606	1,606		1,121	0	485	
MA	Cleary Flood	1682	8	0	0	2	0	0	0	
MA	Cleary Flood	1682	9	0	0	31	0	0	0	
MA	Cleary Flood	1682	OVERDF	105	105		33	0	72	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
MA	Dartmouth Power	52026	1	157	157	6	6	0	151	
MA	Dartmouth Power	52026	OVERDF	0	0		0	0	0	
MA	Deer Island Treatment	10823	S42	0	0	2	0	0	0	
MA	Deer Island Treatment	10823	S43	0	0	2	0	0	0	
MA	Deer Island Treatment	10823	OVERDF	37	37		4	0	33	
MA	Dighton	55026	1	16	12	12	12	0	0	
MA	Dighton	55026	OVERDF	0	0		0	0	0	
MA	Doreen	1631	10	1	5	3	3	0	2	
MA	Doreen	1631	OVERDF	0	0		0	0	0	
MA	Fore River Station	55317	11	0	0	123	0	0	0	
MA	Fore River Station	55317	12	0	0	110	0	0	0	
MA	Fore River Station	55317	OVERDF	86	246		233	0	13	
MA	Framingham Station	1586	FJ-1	0	0	1	0	0	0	
MA	Framingham Station	1586	FJ-2	0	0	2	0	0	0	
MA	Framingham Station	1586	FJ-3	0	0	4	0	0	0	
MA	Framingham Station	1586	OVERDF	1	13		7	0	6	
MA	GE Aircraft Engines Lynn	10029	3	0	0	23	0	0	0	
MA	GE Aircraft Engines Lynn	10029	5	0	0	2	0	0	0	
MA	GE Aircraft Engines Lynn	10029	OVERDF	60	60		25	0	35	
MA	Indeck-Pepperell	10522	CC1	84	3	2	2	0	1	
MA	Indeck-Pepperell	10522	OVERDF	0	0		0	0	0	
MA	Kendall Square	1595	CS12 (1, 2)			62				
MA	Kendall Square	1595	1	0	0		0	0	0	
MA	Kendall Square	1595	2	0	0		0	0	0	
MA	Kendall Square	1595	3	0	0	25	0	0	0	
MA	Kendall Square	1595	4	0	0	9	0	0	0	
MA	Kendall Square	1595	S6	0	0	11	0	0	0	
MA	Kendall Square	1595	S7	0	0	2	0	0	0	
MA	Kendall Square	1595	OVERDF	167	167		109	0	58	
MA	Kneeland Station	880023	K1	0	0	48	0	0	0	
MA	Kneeland Station	880023	K2	0	0	31	0	0	0	
MA	Kneeland Station	880023	K3	0	0	47	0	0	0	
MA	Kneeland Station	880023	K4	0	0	13	0	0	0	
MA	Kneeland Station	880023	OVERDF	232	150		139	0	11	
MA	Lowell Cogeneration Company	10802	001	71	6	1	1	0	5	
MA	Lowell Cogeneration Company	10802	OVERDF	0	0		0	0	0	
MA	Lowell Power, LLC	54586	1	195	2	0	0	0	2	
MA	Lowell Power, LLC	54586	OVERDF	0	0		0	0	0	
MA	Masspower	10726	1	0	0	35	0	0	0	
MA	Masspower	10726	2	0	0	31	0	0	0	
MA	Masspower	10726	OVERDF	493	67		66	0	1	
MA	Medway Station	1592	J1T1	0	0	1	0	0	0	
MA	Medway Station	1592	J1T2	0	0	1	0	0	0	
MA	Medway Station	1592	J2T1	0	0	1	0	0	0	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
MA	Medway Station	1592	J2T2	0	0	2	0	0	0	
MA	Medway Station	1592	J3T1	0	0	2	0	0	0	
MA	Medway Station	1592	J3T2	0	0	1	0	0	0	
MA	Medway Station	1592	OVERDF	5	15		8	0	7	
MA	Milford Power (54805)	54805	1	292	92	21	21	0	71	
MA	Milford Power (54805)	54805	OVERDF	0	0		0	0	0	
MA	Millennium Power Partners	55079	1	47	47	29	29	0	18	
MA	Millennium Power Partners	55079	OVERDF	0	0		0	0	0	
MA	MIT Central Utility	54907	1	96	26	23	23	0	3	
MA	MIT Central Utility	54907	OVERDF	0	0		0	0	0	
MA	Mount Tom	1606	1	302	617	608	608	0	9	
MA	Mount Tom	1606	OVERDF	0	0		0	0	0	
MA	Mystic	1588	4	0	0	9	0	0	0	
MA	Mystic	1588	5	0	0	3	0	0	0	
MA	Mystic	1588	6	0	0	3	0	0	0	
MA	Mystic	1588	7	0	192	386	192	0	0	
MA	Mystic	1588	81	0	0	23	0	0	0	
MA	Mystic	1588	82	0	0	22	0	0	0	
MA	Mystic	1588	93	0	0	76	0	0	0	
MA	Mystic	1588	94	0	0	67	0	0	0	
MA	Mystic	1588	MJ-1	0	0	0	0	0	0	
MA	Mystic	1588	OVERDF	1,660	958		397	0	561	
MA	New Boston	1589	1	0	50	45	45	0	5	
MA	New Boston	1589	2	0	0	0	0	0	0	
MA	New Boston	1589	NBJ-1	0	0	1	0	0	0	
MA	New Boston	1589	OVERDF	1,303	131		1	0	130	
MA	Pittsfield Generating	50002	1	0	0	16	0	0	0	
MA	Pittsfield Generating	50002	2	0	0	14	0	0	0	
MA	Pittsfield Generating	50002	3	0	0	13	0	0	0	
MA	Pittsfield Generating	50002	OVERDF	356	46		43	0	3	
MA	Potter	1660	3	90	90	15	15	0	75	
MA	Potter	1660	OVERDF	0	0		0	0	0	
MA	Salem Harbor	1626	1	0	0	298	0	0	0	
MA	Salem Harbor	1626	2	0	0	318	0	0	0	
MA	Salem Harbor	1626	3	0	0	451	0	0	0	
MA	Salem Harbor	1626	4	0	0	144	0	0	0	
MA	Salem Harbor	1626	OVERDF	1,094	1,242		1,211	0	31	
MA	Somerset	1613	8	0	0	318	0	0	0	
MA	Somerset	1613	11	0	0	3	0	0	0	
MA	Somerset	1613	OVERDF	221	637		321	0	316	
MA	South Boston Combustion Turbines	10176	A	6	0	1	0	0	0	
MA	South Boston Combustion Turbines	10176	B	0	0	1	0	0	0	
MA	South Boston Combustion Turbines	10176	OVERDF	0	6		2	0	4	
MA	Stony Brook	6081	001	0	0	60	0	0	0	

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
MA	Stony Brook	6081	002	0	0	30	0	0	0	
MA	Stony Brook	6081	003	0	0	57	0	0	0	
MA	Stony Brook	6081	004	0	0	5	0	0	0	
MA	Stony Brook	6081	005	0	0	5	0	0	0	
MA	Stony Brook	6081	OVERDF	355	160		157	0	3	
MA	Waters River	1678	2	20	20	2	2	0	18	
MA	Waters River	1678	OVERDF	0	0		0	0	0	
MA	West Springfield	1642	3	2	12	11	11	0	1	
MA	West Springfield	1642	10	0	6	5	5	0	1	
MA	West Springfield	1642	CTG1	0	0	1	0	0	0	
MA	West Springfield	1642	CTG2	0	0	1	0	0	0	
MA	West Springfield	1642	OVERDF	118	44		2	0	42	
MA	Woodland Road	1643	10	1	5	3	3	0	2	
MA	Woodland Road	1643	OVERDF	0	0		0	0	0	
MD	AES Warrior Run	10678	001	378	148	146	146	0	2	
MD	AES Warrior Run	10678	OVERDF	0	0		0	0	0	
MD	Brandon Shores	602	1	1,850	0	1,026	0	0	0	
MD	Brandon Shores	602	2	1,819	0	847	0	0	0	
MD	Brandon Shores	602	OVERDF	1,696	1,873		1,873	0	0	
MD	C P Crane	1552	1	461	0	902	0	0	0	
MD	C P Crane	1552	2	435	0	1,142	0	0	0	
MD	C P Crane	1552	OVERDF	0	2,044		2,044	0	0	
MD	Chalk Point	1571	CSE12 (1, 2)			3,118				
MD	Chalk Point	1571	1	793	793		793	0	0	
MD	Chalk Point	1571	2	818	818		818	0	0	
MD	Chalk Point	1571	3	339	818	957	818	0	0	
MD	Chalk Point	1571	4	408	308	527	308	0	0	
MD	Chalk Point	1571	GT2	1	1	3	1	0	0	
MD	Chalk Point	1571	SMECO	43	16	16	16	0	0	
MD	Chalk Point	1571	**GT3	32	14	14	14	0	0	
MD	Chalk Point	1571	**GT4	32	15	15	15	0	0	
MD	Chalk Point	1571	**GT5	54	16	16	16	0	0	
MD	Chalk Point	1571	**GT6	31	24	24	24	0	0	
MD	Chalk Point	1571	OVERDF	440	1,989		1,867	0	122	
MD	Dickerson	1572	XS123 (1, 2, 3)			1,933				
MD	Dickerson	1572	1	452	452		452	0	0	
MD	Dickerson	1572	2	441	441		441	0	0	
MD	Dickerson	1572	3	461	461		461	0	0	
MD	Dickerson	1572	GT2	77	46	46	46	0	0	
MD	Dickerson	1572	GT3	89	45	45	45	0	0	
MD	Dickerson	1572	OVERDF	0	680		629	0	51	
MD	Gould Street	1553	3	50	0	0	0	0	0	
MD	Gould Street	1553	OVERDF	0	0		0	0	0	
MD	Herbert a Wagner	1554	1	74	0	85	0	0	0	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
MD	Herbert a Wagner	1554	2	367	0	772	0	0	0	
MD	Herbert a Wagner	1554	3	669	0	265	0	0	0	
MD	Herbert a Wagner	1554	4	156	0	415	0	0	0	
MD	Herbert a Wagner	1554	OVERDF	0	1,537		1,537	0	0	
MD	Meadwestvaco Luke Mill	50282	CSPR06 (PR003, PR004, PR005)			946				
MD	Meadwestvaco Luke Mill	50282	PR003	500	418		418	0	0	
MD	Meadwestvaco Luke Mill	50282	PR004	440	440		440	0	0	
MD	Meadwestvaco Luke Mill	50282	PR005	7	7		7	0	0	
MD	Meadwestvaco Luke Mill	50282	OVERDF	81	81		81	0	0	
MD	Morgantown	1573	1	1,231	793	2,897	793	0	0	
MD	Morgantown	1573	2	1,316	816	2,442	816	0	0	
MD	Morgantown	1573	GT3	11	11	9	9	0	2	
MD	Morgantown	1573	GT4	13	9	9	9	0	0	
MD	Morgantown	1573	GT5	13	13	11	11	0	2	
MD	Morgantown	1573	GT6	12	12	10	10	0	2	
MD	Morgantown	1573	OVERDF	0	3,837		3,730	0	107	
MD	Panda Brandywine	54832	1	109	10	9	9	0	1	
MD	Panda Brandywine	54832	2	109	16	15	15	0	1	
MD	Panda Brandywine	54832	OVERDF	0	0		0	0	0	
MD	Perryman	1556	CT1	7	0	11	0	0	0	
MD	Perryman	1556	CT2	7	0	16	0	0	0	
MD	Perryman	1556	CT3	5	0	15	0	0	0	
MD	Perryman	1556	CT4	7	0	8	0	0	0	
MD	**Perryman[2]**	**1556**	****51**	**312**	**0**	**32**	**0**	**0**	**0**	
MD	Perryman	1556	OVERDF	0	50		50	0	0	
MD	R. Paul Smith Power Station	1570	9	7	52	52	52	0	0	
MD	R. Paul Smith Power Station	1570	11	119	379	379	379	0	0	
MD	R. Paul Smith Power Station	1570	OVERDF	0	43		0	0	43	
MD	Riverside	1559	4	26	0	19	0	0	0	
MD	Riverside	1559	CT6	9	0	9	0	0	0	
MD	Riverside	1559	OVERDF	0	28		28	0	0	
MD	Rock Springs Generating Facility	7835	1	0	12	11	11	0	1	
MD	Rock Springs Generating Facility	7835	2	0	10	10	10	0	0	
MD	Rock Springs Generating Facility	7835	3	0	9	9	9	0	0	
MD	Rock Springs Generating Facility	7835	4	0	8	8	8	0	0	
MD	Rock Springs Generating Facility	7835	5	0	0		0	0	0	
MD	Rock Springs Generating Facility	7835	6	0	0		0	0	0	
MD	Rock Springs Generating Facility	7835	OVERDF	0	0		0	0	0	
MD	Vienna	1564	8	129	59	58	58	0	1	
MD	Vienna	1564	OVERDF	0	0		0	0	0	
MD	Westport	1560	CT5	21	1	1	1	0	0	
MD	Westport	1560	OVERDF	0	0		0	0	0	
NJ	AES Red Oak	55239	1	12	12	12	12	0	0	
NJ	AES Red Oak	55239	2	11	11	11	11	0	0	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
NJ	AES Red Oak	55239	3	13	13	13	13	0	0	
NJ	AES Red Oak	55239	OVERDF	0	0		0	0	0	
NJ	B L England	2378	1	273	718	692	692	0	26	
NJ	B L England	2378	2	348	723	704	704	0	19	
NJ	B L England	2378	3	104	134	108	108	0	26	
NJ	B L England	2378	OVERDF	0	0		0	0	0	
NJ	Bayonne Generating Station	2397	A01001	1	3	2	2	0	1	
NJ	Bayonne Generating Station	2397	A02001	2	2	1	1	0	1	
NJ	Bayonne Generating Station	2397	OVERDF	0	0		0	0	0	
NJ	Bayonne Plant Holding, LLC	50497	001001	27	21	8	8	0	13	
NJ	Bayonne Plant Holding, LLC	50497	002001	28	21	2	2	0	19	
NJ	Bayonne Plant Holding, LLC	50497	004001	27	21	7	7	0	14	
NJ	Bayonne Plant Holding, LLC	50497	OVERDF	0	0		0	0	0	
NJ	Bayway Refinery	880016	010001	173	257	251	251	0	6	
NJ	Bayway Refinery	880016	010003	143	49	42	42	0	7	
NJ	Bayway Refinery	880016	OVERDF	0	0		0	0	0	
NJ	Bergen	2398	1101	43	22	20	20	0	2	
NJ	Bergen	2398	1201	54	33	32	32	0	1	
NJ	Bergen	2398	1301	44	28	26	26	0	2	
NJ	Bergen	2398	1401	42	30	29	29	0	1	
NJ	Bergen	2398	2101	22	19	19	19	0	0	
NJ	Bergen	2398	2201	19	17	17	17	0	0	
NJ	Bergen	2398	3001	1	6	5	5	0	1	
NJ	Bergen	2398	OVERDF	0	0		0	0	0	
NJ	Burlington Generating Station	2399	101	60	4	4	4	0	0	
NJ	Burlington Generating Station	2399	102	6	4	3	3	0	1	
NJ	Burlington Generating Station	2399	103	5	5	4	4	0	1	
NJ	Burlington Generating Station	2399	104	6	4	4	4	0	0	
NJ	Burlington Generating Station	2399	121	12	8	8	8	0	0	
NJ	Burlington Generating Station	2399	122	10	6	6	6	0	0	
NJ	Burlington Generating Station	2399	123	12	8	8	8	0	0	
NJ	Burlington Generating Station	2399	124	12	8	8	8	0	0	
NJ	Burlington Generating Station	2399	4001	2	2	1	1	0	1	
NJ	Burlington Generating Station	2399	12001	4	3	2	2	0	1	
NJ	Burlington Generating Station	2399	14001	4	3	1	1	0	2	
NJ	Burlington Generating Station	2399	16001	3	3	1	1	0	2	
NJ	Burlington Generating Station	2399	18001	3	3	2	2	0	1	
NJ	Burlington Generating Station	2399	28001	3	4	4	4	0	0	
NJ	Burlington Generating Station	2399	30001	3	8	7	7	0	1	
NJ	Burlington Generating Station	2399	32001	7	2	1	1	0	1	
NJ	Burlington Generating Station	2399	34001	2	6	6	6	0	0	
NJ	Burlington Generating Station	2399	OVERDF	0	0		0	0	0	
NJ	Calpine Parlin	50799	001001	22	6	3	3	0	3	
NJ	Calpine Parlin	50799	003001	20	5	2	4	0	1	

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NJ	Calpine Parlin	50799	OVERDF	0	0		0	0	0	
NJ	Camden Plant Holding, LLC	10751	002001	67	31	14	14	0	17	
NJ	Camden Plant Holding, LLC	10751	OVERDF	0	0		0	0	0	
NJ	Carlls Corner Station	2379	002001	5	35	15	15	0	20	
NJ	Carlls Corner Station	2379	003001	11	31	23	23	0	8	
NJ	Carlls Corner Station	2379	OVERDF	0	0		0	0	0	
NJ	Carneys Point	10566	1001	306	306	304	304	0	2	
NJ	Carneys Point	10566	1002	272	272	270	270	0	2	
NJ	Carneys Point	10566	OVERDF	0	0		0	0	0	
NJ	Cedar Station	2380	002001	1	26	19	19	0	7	
NJ	Cedar Station	2380	003001	1	26	20	20	0	6	
NJ	Cedar Station	2380	004001	3	23	6	6	0	17	
NJ	Cedar Station	2380	OVERDF	0	0		0	0	0	
NJ	Coastal Oil	55113	034101	1	3	1	1	0	2	
NJ	Coastal Oil	55113	034201	1	3	1	1	0	2	
NJ	Coastal Oil	55113	034301	1	3	1	1	0	2	
NJ	Coastal Oil	55113	034401	1	3	1	1	0	2	
NJ	Coastal Oil	55113	088001	58	88	37	37	0	51	
NJ	Coastal Oil	55113	OVERDF	0	0		0	0	0	
NJ	Cumberland	5083	004001	8	18	7	7	0	11	
NJ	Cumberland	5083	OVERDF	0	0		0	0	0	
NJ	Deepwater	2384	1	40	40	22	22	0	18	
NJ	Deepwater	2384	4	4	4	0	0	0	4	
NJ	Deepwater	2384	6	1	1	0	0	0	1	
NJ	Deepwater	2384	8	175	405	401	401	0	4	
NJ	Deepwater	2384	009001	5	5	0	0	0	5	
NJ	Deepwater	2384	OVERDF	0	0		0	0	0	
NJ	DSM Nutritional Products, Inc	54416	189003	41	123	32	32	0	91	
NJ	DSM Nutritional Products, Inc	54416	OVERDF	0	0		0	0	0	
NJ	E F Kenilworth, Inc.	10805	002001	63	63	33	33	0	30	
NJ	E F Kenilworth, Inc.	10805	OVERDF	0	0		0	0	0	
NJ	Eagle Point Cogen Partnership	50561	0001	185	48	8	8	0	40	
NJ	Eagle Point Cogen Partnership	50561	0002	185	48	1	1	0	47	
NJ	Eagle Point Cogen Partnership	50561	OVERDF	0	0		0	0	0	
NJ	Edison	2400	1001	7	4	3	3	0	1	
NJ	Edison	2400	3001	6	6	4	4	0	2	
NJ	Edison	2400	5001	6	9	8	8	0	1	
NJ	Edison	2400	7001	6	8	8	8	0	0	
NJ	Edison	2400	9001	8	5	1	1	0	4	
NJ	Edison	2400	11001	8	2	1	1	0	1	
NJ	Edison	2400	13001	8	2	2	2	0	0	
NJ	Edison	2400	15001	8	2	2	2	0	0	
NJ	Edison	2400	17001	9	3	2	2	0	1	
NJ	Edison	2400	19001	9	4	4	4	0	0	

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
NJ	Edison	2400	21001	8	4	3	3	0	1	
NJ	Edison	2400	23001	7	7	4	4	0	3	
NJ	Edison	2400	OVERDF	0	0		0	0	0	
NJ	Essex	2401	2001	10	10	6	6	0	4	
NJ	Essex	2401	4001	10	10	8	8	0	2	
NJ	Essex	2401	10001	10	10	7	7	0	3	
NJ	Essex	2401	12001	9	9	8	8	0	1	
NJ	Essex	2401	14001	7	16	15	15	0	1	
NJ	Essex	2401	16001	6	6	6	6	0	0	
NJ	Essex	2401	18001	6	14	14	14	0	0	
NJ	Essex	2401	20001	6	14	14	14	0	0	
NJ	Essex	2401	22001	10	15	15	15	0	0	
NJ	Essex	2401	24001	12	12	8	8	0	4	
NJ	Essex	2401	26001	12	15	14	14	0	1	
NJ	Essex	2401	28001	11	13	13	13	0	0	
NJ	Essex	2401	35001	30	10	8	8	0	2	
NJ	Essex	2401	OVERDF	0	0		0	0	0	
NJ	Forked River	7138	002001	12	12	10	10	0	2	
NJ	Forked River	7138	003001	13	13	9	9	0	4	
NJ	Forked River	7138	OVERDF	0	0		0	0	0	
NJ	Gilbert Generating Station	2393	04	53	11	10	10	0	1	
NJ	Gilbert Generating Station	2393	05	48	12	11	11	0	1	
NJ	Gilbert Generating Station	2393	06	51	11	10	10	0	1	
NJ	Gilbert Generating Station	2393	07	52	11	10	10	0	1	
NJ	Gilbert Generating Station	2393	9	36	10	8	8	0	2	
NJ	Gilbert Generating Station	2393	015001	2	2	1	1	0	1	
NJ	Gilbert Generating Station	2393	016001	2	2	1	1	0	1	
NJ	Gilbert Generating Station	2393	017001	2	1	0	0	0	1	
NJ	Gilbert Generating Station	2393	018001	3	1	0	0	0	1	
NJ	Gilbert Generating Station	2393	OVERDF	0	0		0	0	0	
NJ	Glen Gardner	8227	003001	4	2	1	1	0	1	
NJ	Glen Gardner	8227	004001	4	2	1	1	0	1	
NJ	Glen Gardner	8227	005001	4	2	1	1	0	1	
NJ	Glen Gardner	8227	006001	4	2	1	1	0	1	
NJ	Glen Gardner	8227	007001	5	2	1	1	0	1	
NJ	Glen Gardner	8227	008001	5	2	1	1	0	1	
NJ	Glen Gardner	8227	009001	4	2	1	1	0	1	
NJ	Glen Gardner	8227	010001	4	2	1	1	0	1	
NJ	Glen Gardner	8227	OVERDF	0	0		0	0	0	
NJ	Howard M	2434	005001	22	22	6	6	0	16	
NJ	Howard M	2434	006001	55	135	97	97	0	38	
NJ	Howard M	2434	OVERDF	0	0		0	0	0	
NJ	Hudson Generating Station	2403	1	242	89	89	89	0	0	
NJ	Hudson Generating Station	2403	2	758	2,789	2,783	2,783	0	6	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
NJ	Hudson Generating Station	2403	8001	5	0	0	0	0	0	
NJ	Hudson Generating Station	2403	OVERDF	0	0		0	0	0	
NJ	Kearny Generating Station	2404	7	32	10	10	10	0	0	
NJ	Kearny Generating Station	2404	8	16	10	10	10	0	0	
NJ	Kearny Generating Station	2404	121	17	14	14	14	0	0	
NJ	Kearny Generating Station	2404	122	16	13	13	13	0	0	
NJ	Kearny Generating Station	2404	123	15	12	12	12	0	0	
NJ	Kearny Generating Station	2404	124	14	11	11	11	0	0	
NJ	Kearny Generating Station	2404	15001	3	4	3	3	0	1	
NJ	Kearny Generating Station	2404	16001	10	26	25	25	0	1	
NJ	Kearny Generating Station	2404	17001	16	30	29	29	0	1	
NJ	Kearny Generating Station	2404	OVERDF	0	0		0	0	0	
NJ	Lakewood Cogeneration	54640	001001	18	18	9	9	0	9	
NJ	Lakewood Cogeneration	54640	002001	25	25	8	8	0	17	
NJ	Lakewood Cogeneration	54640	OVERDF	0	0		0	0	0	
NJ	Linden Cogeneration Facility	50006	004001	13	13	13	13	0	0	
NJ	Linden Cogeneration Facility	50006	005001	40	40	38	38	0	2	
NJ	Linden Cogeneration Facility	50006	006001	39	39	38	38	0	1	
NJ	Linden Cogeneration Facility	50006	007001	40	40	37	37	0	3	
NJ	Linden Cogeneration Facility	50006	008001	41	41	39	39	0	2	
NJ	Linden Cogeneration Facility	50006	009001	40	40	36	36	0	4	
NJ	Linden Cogeneration Facility	50006	OVERDF	0	0		0	0	0	
NJ	Linden Generating Station	2406	2	39	1	0	0	0	1	
NJ	Linden Generating Station	2406	5	10	12	6	6	0	6	
NJ	Linden Generating Station	2406	6	9	12	6	6	0	6	
NJ	Linden Generating Station	2406	7	15	9	6	6	0	3	
NJ	Linden Generating Station	2406	8	19	11	6	6	0	5	
NJ	Linden Generating Station	2406	11	0	0	0	0	0	0	
NJ	Linden Generating Station	2406	12	5	0	0	0	0	0	
NJ	Linden Generating Station	2406	13	8	0	0	0	0	0	
NJ	Linden Generating Station	2406	7001	3	0	0	0	0	0	
NJ	Linden Generating Station	2406	OVERDF	0	0		0	0	0	
NJ	Logan Generating Plant	10043	1001	446	446	433	433	0	13	
NJ	Logan Generating Plant	10043	OVERDF	0	0		0	0	0	
NJ	Mercer Generating Station	2408	1	592	1,288	1,254	1,254	0	34	
NJ	Mercer Generating Station	2408	2	517	1,376	1,370	1,370	0	6	
NJ	Mercer Generating Station	2408	7001	3	4	4	4	0	0	
NJ	Mercer Generating Station	2408	OVERDF	0	0		0	0	0	
NJ	Mickleton	8008	001001	10	10	5	5	0	5	
NJ	Mickleton	8008	OVERDF	0	0		0	0	0	
NJ	Middle Street	2382	003001	3	16	4	4	0	12	
NJ	Middle Street	2382	004001	2	12	5	5	0	7	
NJ	Middle Street	2382	005001	4	19	8	8	0	11	
NJ	Middle Street	2382	OVERDF	0	0		0	0	0	

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NJ	Milford Power (10616)	10616	4001	98	13	0	0	0	13	
NJ	Milford Power (10616)	10616	OVERDF	0	0		0	0	0	
NJ	Missouri	2383	010001	2	10	4	4	0	6	
NJ	Missouri	2383	011001	2	5	2	2	0	3	
NJ	Missouri	2383	012001	2	5	3	3	0	2	
NJ	Missouri	2383	OVERDF	0	0		0	0	0	
NJ	National Park	2409	1001	0	1	0	0	0	1	
NJ	National Park	2409	OVERDF	0	0		0	0	0	
NJ	Newark Bay Cogen	50385	1001	21	15	3	3	0	12	
NJ	Newark Bay Cogen	50385	2001	31	20	4	4	0	16	
NJ	Newark Bay Cogen	50385	3001	5	10	5	5	0	5	
NJ	Newark Bay Cogen	50385	OVERDF	0	0		0	0	0	
NJ	North Jersey Energy Associates	10308	1001	171	175	166	166	0	9	
NJ	North Jersey Energy Associates	10308	1002	175	170	161	161	0	9	
NJ	North Jersey Energy Associates	10308	OVERDF	0	0		0	0	0	
NJ	**Obrien (Newark) Cogeneration[3]**	**50797**	**001001**	**57**	**23**	**39**	**23**	**0**	**0**	
NJ	Ocean Peaking Power, LP	55938	OPP3	5	5	5	5	0	0	
NJ	Ocean Peaking Power, LP	55938	OPP4	4	4	4	4	0	0	
NJ	Ocean Peaking Power, LP	55938	OVERDF	0	0		0	0	0	
NJ	Pedricktown Cogeneration Plant	10099	001001	278	24	14	14	0	10	
NJ	Pedricktown Cogeneration Plant	10099	OVERDF	0	0		0	0	0	
NJ	Prime Energy	50852	002001	108	108	75	75	0	33	
NJ	Prime Energy	50852	OVERDF	0	0		0	0	0	
NJ	Salem	2410	2001	3	1	0	0	0	1	
NJ	Salem	2410	OVERDF	0	0		0	0	0	
NJ	Sayreville	2390	07	20	20	17	17	0	3	
NJ	Sayreville	2390	08	27	36	30	30	0	6	
NJ	Sayreville	2390	012001	12	4	3	3	0	1	
NJ	Sayreville	2390	014001	8	4	3	3	0	1	
NJ	Sayreville	2390	015001	8	5	4	4	0	1	
NJ	Sayreville	2390	016001	14	4	3	3	0	1	
NJ	Sayreville	2390	OVERDF	0	0		0	0	0	
NJ	Sewaren Generating Station	2411	1	36	39	38	38	0	1	
NJ	Sewaren Generating Station	2411	2	33	48	47	47	0	1	
NJ	Sewaren Generating Station	2411	3	39	86	85	85	0	1	
NJ	Sewaren Generating Station	2411	4	76	59	56	56	0	3	
NJ	Sewaren Generating Station	2411	12001	4	7	7	7	0	0	
NJ	Sewaren Generating Station	2411	OVERDF	0	0		0	0	0	
NJ	Sherman Avenue	7288	1	25	16	14	14	0	2	
NJ	Sherman Avenue	7288	OVERDF	0	0		0	0	0	
NJ	Valero Refining (NJ)	50628	748001	44	29	23	23	0	6	
NJ	Valero Refining (NJ)	50628	749001	127	127	109	109	0	18	
NJ	Valero Refining (NJ)	50628	751001	65	80	56	56	0	24	
NJ	Valero Refining (NJ)	50628	752001	46	46	38	38	0	8	

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NJ	Valero Refining (NJ)	50628	OVERDF	0	0		0	0	0	
NJ	Vineland Cogeneration	54807	001001	9	9	4	4	0	5	
NJ	Vineland Cogeneration	54807	OVERDF	0	0		0	0	0	
NJ	Werner	2385	009001	7	3	2	2	0	1	
NJ	Werner	2385	010001	7	4	3	3	0	1	
NJ	Werner	2385	011001	7	3	2	2	0	1	
NJ	Werner	2385	012001	6	4	3	3	0	1	
NJ	Werner	2385	OVERDF	0	0		0	0	0	
NJ	West Station	6776	002001	20	20	6	6	0	14	
NJ	West Station	6776	OVERDF	0	0		0	0	0	
NY	23rd and 3rd	7910	2301	6	6	2	2	0	4	
NY	23rd and 3rd	7910	2302	6	6	2	2	0	4	
NY	23rd and 3rd	7910	OVERDF	0	0		0	0	0	
NY	59th Street	2503	CS0001 (BLR114,BLR115, BLR116, BLR117, BLR118)			166				
NY	59th Street	2503	BLR114	48	33		33	0	0	
NY	59th Street	2503	BLR115	52	41		33	0	8	
NY	59th Street	2503	BLR116	15	33		33	0	0	
NY	59th Street	2503	BLR117	16	33		33	0	0	
NY	59th Street	2503	BLR118	16	34		34	0	0	
NY	59th Street	2503	CT0001	3	3	2	2	0	1	
NY	59th Street	2503	OVERDF	49	92		0	0	92	
NY	74th Street	2504	CS0002 (120, 121, 122)			189				
NY	74th Street	2504	120	92	72		63	0	9	
NY	74th Street	2504	121	91	63		63	0	0	
NY	74th Street	2504	122	82	63		63	0	0	
NY	74th Street	2504	CT0001	0	5	4	4	0	1	
NY	74th Street	2504	CT0002	0	3	2	2	0	1	
NY	74th Street	2504	OVERDF	38	97		0	0	97	
NY	AES Cayuga (Milliken)	2535	XS12 (1, 2)			964				
NY	AES Cayuga (Milliken)	2535	1	336	205		205	0	0	
NY	AES Cayuga (Milliken)	2535	2	325	758		758	0	0	
NY	AES Cayuga (Milliken)	2535	OVERDF	0	1		1	0	0	
NY	AES Greenidge	2527	CSG003 (4, 5)			406				
NY	AES Greenidge	2527	4	24	0		0	0	0	
NY	AES Greenidge	2527	5	30	406		406	0	0	
NY	AES Greenidge	2527	6	226	497	497	497	0	0	
NY	AES Greenidge	2527	OVERDF	0	11		0	0	11	
NY	AES Hickling	2529	CSH001 (1, 2)			0				
NY	AES Hickling	2529	1	37	1		0	0	1	
NY	AES Hickling	2529	2	20	1		0	0	1	
NY	AES Hickling	2529	CSH002 (3, 4)			0				
NY	AES Hickling	2529	3	52	2		0	0	2	
NY	AES Hickling	2529	4	56	2		0	0	2	

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NY	AES Hickling	2529	OVERDF	0	0		0	0	0	
NY	AES Jennison	2531	CSJ001 (1, 2)			0				
NY	AES Jennison	2531	1	24	1		0	0	1	
NY	AES Jennison	2531	2	27	1		0	0	1	
NY	AES Jennison	2531	CSJ002 (3, 4)			0				
NY	AES Jennison	2531	3	24	1		0	0	1	
NY	AES Jennison	2531	4	27	1		0	0	1	
NY	AES Jennison	2531	OVERDF	0	0		0	0	0	
NY	AES Somerset (Kintigh)	6082	1	1,369	1,227	1,175	1,175	0	52	
NY	AES Somerset (Kintigh)	6082	OVERDF	0	0		0	0	0	
NY	AES Westover (Goudey)	2526	CSW003 (11, 12, 13)			691				
NY	AES Westover (Goudey)	2526	11	61	0		0	0	0	
NY	AES Westover (Goudey)	2526	12	62	0		0	0	0	
NY	AES Westover (Goudey)	2526	13	202	691		691	0	0	
NY	AES Westover (Goudey)	2526	OVERDF	0	12		0	0	12	
NY	AG - Energy	10803	1	32	11	9	9	0	2	
NY	AG - Energy	10803	2	17	4	3	3	0	1	
NY	AG - Energy	10803	OVERDF	0	0		0	0	0	
NY	Allegany Station No. 133	10619	00001	32	8	8	8	0	0	
NY	Allegany Station No. 133	10619	OVERDF	0	0		0	0	0	
NY	American Ref-Fuel Niagara	50472	R1B01	102	15	1	1	0	14	
NY	American Ref-Fuel Niagara	50472	OVERDF	0	0		0	0	0	
NY	Arthur Kill	2490	CS0002 (20, 30)			251				
NY	Arthur Kill	2490	20	594	117		117	0	0	
NY	Arthur Kill	2490	30	456	456		125	0	331	
NY	Arthur Kill	2490	CT0001	4	4	2	2	0	2	
NY	Arthur Kill	2490	OVERDF	95	572		9	0	563	
NY	Astoria Gas Turbine Power	55243	CT0005	5	5	7	5	0	0	
NY	Astoria Gas Turbine Power	55243	CT0007	6	6	6	6	0	0	
NY	Astoria Gas Turbine Power	55243	CT0008	6	6	8	6	0	0	
NY	Astoria Gas Turbine Power	55243	CT0009	6	0	0	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT0010	11	11	28	11	0	0	
NY	Astoria Gas Turbine Power	55243	CT0011	10	10	20	10	0	0	
NY	Astoria Gas Turbine Power	55243	CT0012	9	9	22	9	0	0	
NY	Astoria Gas Turbine Power	55243	CT0013	8	8	21	8	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-1A	10	10	22	10	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-1B	0	12	22	12	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-2A	1	1	20	1	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-2B	0	0	20	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-3A	10	10	15	10	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-3B	0	0	15	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-4A	10	10	14	10	0	0	
NY	Astoria Gas Turbine Power	55243	CT2-4B	0	0	14	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-1A	10	0	5	0	0	0	

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NY	Astoria Gas Turbine Power	55243	CT3-1B	0	0	5	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-2A	10	0	7	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-2B	0	0	7	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-3A	10	0	7	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-3B	0	0	7	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-4A	10	0	6	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT3-4B	0	0	6	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-1A	10	0	9	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-1B	0	0	9	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-2A	10	10	13	10	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-2B	0	0	13	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-3A	10	0	4	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-3B	0	0	4	0	0	0	
NY	Astoria Gas Turbine Power	55243	CT4-4A	10	10	5	5	0	5	
NY	Astoria Gas Turbine Power	55243	CT4-4B	0	0	5	0	0	0	
NY	Astoria Gas Turbine Power	55243	OVERDF	12	289		253	0	36	
NY	Astoria Generating Station	8906	20	0	57	57	57	0	0	
NY	Astoria Generating Station	8906	30	631	458	458	458	0	0	
NY	Astoria Generating Station	8906	40	534	330	330	330	0	0	
NY	Astoria Generating Station	8906	50	640	462	462	462	0	0	
NY	Astoria Generating Station	8906	CT0001	5	0	0	0	0	0	
NY	Astoria Generating Station	8906	OVERDF	7	20		0	0	20	
NY	Athens Generating Company	55405	1	59	59	50	50	0	9	
NY	Athens Generating Company	55405	2	59	59	56	56	0	3	
NY	Athens Generating Company	55405	3	59	59	50	50	0	9	
NY	Athens Generating Company	55405	OVERDF	0	0		0	0	0	
NY	Batavia Energy	54593	1	103	9	8	8	0	1	
NY	Batavia Energy	54593	OVERDF	0	0		0	0	0	
NY	Bayswater Peaking Facility	55699	1	9	12	9	9	0	3	
NY	Bayswater Peaking Facility	55699	2	15	12	7	7	0	5	
NY	Bayswater Peaking Facility	55699	OVERDF	0	0		0	0	0	
NY	Bethlehem Energy Center (Albany)	2539	1	124	15	14	14	0	1	
NY	Bethlehem Energy Center (Albany)	2539	2	104	26	24	24	0	2	
NY	Bethlehem Energy Center (Albany)	2539	3	160	16	15	15	0	1	
NY	Bethlehem Energy Center (Albany)	2539	4	135	36	35	35	0	1	
NY	Bethlehem Energy Center (Albany)	2539	OVERDF	0	5		0	0	5	
NY	Binghamton Cogen Plant	55600	1	70	70	4	4	0	66	
NY	Binghamton Cogen Plant	55600	OVERDF	0	0		0	0	0	
NY	Black River Power Generation	10464	CS-1 (E0001, E0002, E0003)			152				
NY	Black River Power Generation	10464	E0001	45	46		46	0	0	
NY	Black River Power Generation	10464	E0002	45	45		45	0	0	
NY	Black River Power Generation	10464	E0003	45	45		45	0	0	
NY	Black River Power Generation	10464	OVERDF	1	23		16	0	7	
NY	Bowline Generating Station	2625	1	861	361	655	361	0	0	

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NY	Bowline Generating Station	2625	2	698	248	180	180	0	68	
NY	Bowline Generating Station	2625	OVERDF	225	475		294	0	181	
NY	Brentwood	7912	BW01	9	9	1	1	0	8	
NY	Brentwood	7912	OVERDF	0	0		0	0	0	
NY	Brooklyn Navy Yard Cogeneration	54914	1	30	16	15	15	0	1	
NY	Brooklyn Navy Yard Cogeneration	54914	2	30	19	14	14	0	5	
NY	Brooklyn Navy Yard Cogeneration	54914	OVERDF	0	0		0	0	0	
NY	Carr Street Generating Station	50978	A	16	2	2	2	0	0	
NY	Carr Street Generating Station	50978	B	16	2	2	2	0	0	
NY	Carr Street Generating Station	50978	OVERDF	2	4		0	0	4	
NY	Carthage Energy	10620	1	80	15	8	8	0	7	
NY	Carthage Energy	10620	OVERDF	0	0		0	0	0	
NY	Castleton	10190	1	126	36	29	29	0	7	
NY	Castleton	10190	OVERDF	0	0		0	0	0	
NY	Charles Poletti	2491	001	962	701	701	701	0	0	
NY	Charles Poletti	2491	OVERDF	0	0		0	0	0	
NY	Cpn Bethpage 3rd Turbine, Inc.	50292	GT1	54	45	45	45	0	0	
NY	Cpn Bethpage 3rd Turbine, Inc.	50292	GT2	54	44	44	44	0	0	
NY	Cpn Bethpage 3rd Turbine, Inc.	50292	GT3	7	5	5	5	0	0	
NY	Cpn Bethpage 3rd Turbine, Inc.	50292	OVERDF	0	0		0	0	0	
NY	Dunkirk	2554	CS0003 (3, 4)			1,223				
NY	Dunkirk	2554	1	222	0	389	0	0	0	
NY	Dunkirk	2554	2	199	0	352	0	0	0	
NY	Dunkirk	2554	3	368	217		217	0	0	
NY	Dunkirk	2554	4	390	24		24	0	0	
NY	Dunkirk	2554	OVERDF	217	1,773		1,723	0	50	
NY	Dynegy Danskammer	2480	1	38	6	5	5	0	1	
NY	Dynegy Danskammer	2480	2	51	12	10	10	0	2	
NY	Dynegy Danskammer	2480	3	247	442	433	433	0	9	
NY	Dynegy Danskammer	2480	4	512	730	710	710	0	20	
NY	Dynegy Danskammer	2480	OVERDF	69	52		0	0	52	
NY	Dynegy Roseton	8006	1	675	833	808	808	0	25	
NY	Dynegy Roseton	8006	2	683	901	876	876	0	25	
NY	Dynegy Roseton	8006	OVERDF	19	53		0	0	53	
NY	E F Barrett	2511	10	323	269	269	269	0	0	
NY	E F Barrett	2511	20	310	118	119	118	0	0	
NY	E F Barrett	2511	U00004	7	0	4	0	0	0	
NY	E F Barrett	2511	U00005	7	0	3	0	0	0	
NY	E F Barrett	2511	U00006	7	0	2	0	0	0	
NY	E F Barrett	2511	U00007	7	0	2	0	0	0	
NY	E F Barrett	2511	U00008	7	0	4	0	0	0	
NY	E F Barrett	2511	U00009	7	0	3	0	0	0	
NY	E F Barrett	2511	U00010	7	0	3	0	0	0	
NY	E F Barrett	2511	U00011	7	0	3	0	0	0	

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NY	E F Barrett	2511	U00012	13	22	24	22	0	0	
NY	E F Barrett	2511	U00013	13	13	24	13	0	0	
NY	E F Barrett	2511	U00014	13	13	28	13	0	0	
NY	E F Barrett	2511	U00015	13	13	28	13	0	0	
NY	E F Barrett	2511	U00016	13	13	16	13	0	0	
NY	E F Barrett	2511	U00017	13	13	16	13	0	0	
NY	E F Barrett	2511	U00018	13	11	12	11	0	0	
NY	E F Barrett	2511	U00019	13	11	12	11	0	0	
NY	E F Barrett	2511	OVERDF	9	109		76	0	33	
NY	East Hampton Facility	2512	UGT001	28	83	81	81	0	2	
NY	East Hampton Facility	2512	OVERDF	0	0		0	0	0	
NY	East River	2493	60	407	307	278	278	0	29	
NY	East River	2493	70	135	223	223	223	0	0	
NY	East River	2493	OVERDF	64	76		0	0	76	
NY	Eastman Kodak - Kodak Park	10025	CS1E1F (1E, 1F)			183				
NY	Eastman Kodak - Kodak Park	10025	1E	164	132		91	0	41	
NY	Eastman Kodak - Kodak Park	10025	1F	164	133		92	0	41	
NY	Eastman Kodak - Kodak Park	10025	2C	401	496	451	451	0	45	
NY	Eastman Kodak - Kodak Park	10025	2D	50	23	1	1	0	22	
NY	Eastman Kodak - Kodak Park	10025	3A	337	250	205	205	0	45	
NY	Eastman Kodak - Kodak Park	10025	3B	335	317	277	277	0	40	
NY	Eastman Kodak - Kodak Park	10025	4A	424	327	287	287	0	40	
NY	Eastman Kodak - Kodak Park	10025	4B	316	383	339	339	0	44	
NY	Eastman Kodak - Kodak Park	10025	OVERDF	0	0		0	0	0	
NY	Far Rockaway	2513	40	164	55	46	46	0	9	
NY	Far Rockaway	2513	OVERDF	0	0		0	0	0	
NY	Fortistar North Tonawanda Inc	54131	NTCT1	97	58	44	44	0	14	
NY	Fortistar North Tonawanda Inc	54131	OVERDF	0	0		0	0	0	
NY	Fulton Cogeneration Associates	54138	01GTDB	93	69	5	5	0	64	
NY	Fulton Cogeneration Associates	54138	OVERDF	0	0		0	0	0	
NY	General Electric - Waterford	880024	U28006	64	39	32	32	0	7	
NY	General Electric - Waterford	880024	OVERDF	0	0		0	0	0	
NY	Glens Falls Lehigh Cement Company	880052	01070	684	334	180	180	0	154	
NY	Glens Falls Lehigh Cement Company	880052	OVERDF	0	0		0	0	0	
NY	Glenwood	2514	40	171	71	73	71	0	0	
NY	Glenwood	2514	50	146	71	72	71	0	0	
NY	Glenwood	2514	U00020	2	2	20	2	0	0	
NY	Glenwood	2514	U00021	2	2	19	2	0	0	
NY	Glenwood	2514	OVERDF	0	55		38	0	17	
NY	Glenwood Landing Energy Center	7869	UGT011	2	2	4	2	0	0	
NY	Glenwood Landing Energy Center	7869	UGT012	9	0	2	0	0	0	
NY	Glenwood Landing Energy Center	7869	UGT013	9	0	2	0	0	0	
NY	Glenwood Landing Energy Center	7869	OVERDF	0	8		6	0	2	
NY	Global Common Greenport, LLC	55969	U-01	22	22	4	4	0	18	

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NY	Global Common Greenport, LLC	55969	OVERDF	0	0		0	0	0	
NY	Gowanus	2494	CT01-1	8	14	14	14	0	0	
NY	Gowanus	2494	CT01-2	9	14	14	14	0	0	
NY	Gowanus	2494	CT01-3	9	15	15	15	0	0	
NY	Gowanus	2494	CT01-4	8	17	17	17	0	0	
NY	Gowanus	2494	CT01-5	8	15	15	15	0	0	
NY	Gowanus	2494	CT01-6	8	14	14	14	0	0	
NY	Gowanus	2494	CT01-7	8	11	11	11	0	0	
NY	Gowanus	2494	CT01-8	8	13	13	13	0	0	
NY	Gowanus	2494	CT02-1	23	13	13	13	0	0	
NY	Gowanus	2494	CT02-2	12	11	11	11	0	0	
NY	Gowanus	2494	CT02-3	12	10	10	10	0	0	
NY	Gowanus	2494	CT02-4	17	15	15	15	0	0	
NY	Gowanus	2494	CT02-5	17	12	12	12	0	0	
NY	Gowanus	2494	CT02-6	14	14	14	14	0	0	
NY	Gowanus	2494	CT02-7	11	12	12	12	0	0	
NY	Gowanus	2494	CT02-8	13	13	13	13	0	0	
NY	Gowanus	2494	CT03-1	16	10	10	10	0	0	
NY	Gowanus	2494	CT03-2	16	9	9	9	0	0	
NY	Gowanus	2494	CT03-3	14	8	8	8	0	0	
NY	Gowanus	2494	CT03-4	16	11	11	11	0	0	
NY	Gowanus	2494	CT03-5	14	8	8	8	0	0	
NY	Gowanus	2494	CT03-6	18	9	9	9	0	0	
NY	Gowanus	2494	CT03-7	14	8	8	8	0	0	
NY	Gowanus	2494	CT03-8	17	5	5	5	0	0	
NY	Gowanus	2494	CT04-1	10	10	10	10	0	0	
NY	Gowanus	2494	CT04-2	12	5	5	5	0	0	
NY	Gowanus	2494	CT04-3	11	10	10	10	0	0	
NY	Gowanus	2494	CT04-4	10	10	10	10	0	0	
NY	Gowanus	2494	CT04-5	8	10	10	10	0	0	
NY	Gowanus	2494	CT04-6	11	9	9	9	0	0	
NY	Gowanus	2494	CT04-7	12	9	9	9	0	0	
NY	Gowanus	2494	CT04-8	11	10	10	10	0	0	
NY	Gowanus	2494	OVERDF	22	32		0	0	32	
NY	Harlem River Yard	7914	HR01	6	6	3	3	0	3	
NY	Harlem River Yard	7914	HR02	6	6	2	2	0	4	
NY	Harlem River Yard	7914	OVERDF	0	0		0	0	0	
NY	Hell Gate	7913	HG01	6	6	3	3	0	3	
NY	Hell Gate	7913	HG02	6	6	3	3	0	3	
NY	Hell Gate	7913	OVERDF	0	0		0	0	0	
NY	Hillburn	2628	001	12	21	4	4	0	17	
NY	Hillburn	2628	OVERDF	0	0		0	0	0	
NY	Holtsville Facility	8007	U00001	8	11	24	11	0	0	
NY	Holtsville Facility	8007	U00002	8	8	24	8	0	0	

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NY	Holtsville Facility	8007	U00003	8	8	39	8	0	0	
NY	Holtsville Facility	8007	U00004	8	8	39	8	0	0	
NY	Holtsville Facility	8007	U00005	8	8	53	8	0	0	
NY	Holtsville Facility	8007	U00006	8	8	53	8	0	0	
NY	Holtsville Facility	8007	U00007	8	8	15	8	0	0	
NY	Holtsville Facility	8007	U00008	8	8	15	8	0	0	
NY	Holtsville Facility	8007	U00009	8	8	26	8	0	0	
NY	Holtsville Facility	8007	U00010	8	8	26	8	0	0	
NY	Holtsville Facility	8007	U00011	8	8	13	8	0	0	
NY	Holtsville Facility	8007	U00012	8	8	13	8	0	0	
NY	Holtsville Facility	8007	U00013	8	8	45	8	0	0	
NY	Holtsville Facility	8007	U00014	8	8	45	8	0	0	
NY	Holtsville Facility	8007	U00015	8	8	23	8	0	0	
NY	Holtsville Facility	8007	U00016	8	8	23	8	0	0	
NY	Holtsville Facility	8007	U00017	8	8	34	8	0	0	
NY	Holtsville Facility	8007	U00018	8	8	34	8	0	0	
NY	Holtsville Facility	8007	U00019	8	8	18	8	0	0	
NY	Holtsville Facility	8007	U00020	8	8	18	8	0	0	
NY	Holtsville Facility	8007	OVERDF	3	450		417	0	33	
NY	Hudson Avenue	2496	CS0004 (BLR071, BLR072, BLR081, BLR082)			244				
NY	Hudson Avenue	2496	BLR071	46	61		61	0	0	
NY	Hudson Avenue	2496	BLR072	45	61		61	0	0	
NY	Hudson Avenue	2496	BLR081	52	61		61	0	0	
NY	Hudson Avenue	2496	BLR082	45	68		61	0	7	
NY	Hudson Avenue	2496	BLR100	0	23	23	23	0	0	
NY	Hudson Avenue	2496	CT0003	4	4	4	4	0	0	
NY	Hudson Avenue	2496	CT0004	5	5	2	2	0	3	
NY	Hudson Avenue	2496	CT0005	4	4	3	3	0	1	
NY	Hudson Avenue	2496	OVERDF	51	72		0	0	72	
NY	Huntley Power	2549	CS0002 (63, 64, 65, 66)			830				
NY	Huntley Power	2549	63	159	0		0	0	0	
NY	Huntley Power	2549	64	189	0		0	0	0	
NY	Huntley Power	2549	65	183	0		0	0	0	
NY	Huntley Power	2549	66	191	0		0	0	0	
NY	Huntley Power	2549	CS0001 (67, 68)			1,296				
NY	Huntley Power	2549	67	422	320		320	0	0	
NY	Huntley Power	2549	68	462	0		0	0	0	
NY	Huntley Power	2549	OVERDF	320	1,859		1,806	0	53	
NY	Ilion Energy Center	50459	1	225	7	3	3	0	4	
NY	Ilion Energy Center	50459	OVERDF	0	0		0	0	0	
NY	Indeck-Corinth Energy Center	50458	1	82	45	45	45	0	0	
NY	Indeck-Corinth Energy Center	50458	OVERDF	0	0		0	0	0	
NY	Indeck-Olean Energy Center	54076	1	53	7	6	6	0	1	

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
NY	Indeck-Olean Energy Center	54076	OVERDF	0	0		0	0	0	
NY	Indeck-Oswego Energy Center	50450	1	101	11	10	10	0	1	
NY	Indeck-Oswego Energy Center	50450	OVERDF	0	0		0	0	0	
NY	Indeck-Silver Springs Energy Center	50449	1	108	40	40	40	0	0	
NY	Indeck-Silver Springs Energy Center	50449	OVERDF	0	0		0	0	0	
NY	Indeck-Yerkes Energy Center	50451	1	51	12	11	11	0	1	
NY	Indeck-Yerkes Energy Center	50451	OVERDF	0	0		0	0	0	
NY	Independence	54547	1	62	19	19	19	0	0	
NY	Independence	54547	2	62	17	17	17	0	0	
NY	Independence	54547	3	62	19	19	19	0	0	
NY	Independence	54547	4	62	19	19	19	0	0	
NY	Independence	54547	OVERDF	0	0		0	0	0	
NY	International Paper-Hudson River	54088	N01PB	147	23	0	0	0	23	
NY	International Paper-Hudson River	54088	OVERDF	0	0		0	0	0	
NY	KIAC Cogeneration	54114	GT1	43	25	24	24	0	1	
NY	KIAC Cogeneration	54114	GT2	43	20	19	19	0	1	
NY	KIAC Cogeneration	54114	OVERDF	0	0		0	0	0	
NY	Lafarge Building Materials, Inc.	880044	41000	5,216	3,066	2,460	2,460	0	606	
NY	Lafarge Building Materials, Inc.	880044	OVERDF	0	0		0	0	0	
NY	Lockport	54041	011854	113	113	108	108	0	5	
NY	Lockport	54041	011855	115	114	107	107	0	7	
NY	Lockport	54041	011856	115	115	110	110	0	5	
NY	Lockport	54041	OVERDF	0	0		0	0	0	
NY	Lovett Generating Station	2629	3	93	23	6	6	0	17	
NY	Lovett Generating Station	2629	4	321	321	795	321	0	0	
NY	Lovett Generating Station	2629	5	408	408	781	408	0	0	
NY	Lovett Generating Station	2629	OVERDF	369	939		847	0	92	
NY	Massena Energy Facility	54592	001	65	10	2	2	0	8	
NY	Massena Energy Facility	54592	OVERDF	0	0		0	0	0	
NY	Narrows	2499	CT01-1	24	34	34	34	0	0	
NY	Narrows	2499	CT01-2	24	34	34	34	0	0	
NY	Narrows	2499	CT01-3	19	30	30	30	0	0	
NY	Narrows	2499	CT01-4	23	33	33	33	0	0	
NY	Narrows	2499	CT01-5	19	34	34	34	0	0	
NY	Narrows	2499	CT01-6	25	36	36	36	0	0	
NY	Narrows	2499	CT01-7	22	35	35	35	0	0	
NY	Narrows	2499	CT01-8	23	32	32	32	0	0	
NY	Narrows	2499	CT02-1	20	36	36	36	0	0	
NY	Narrows	2499	CT02-2	21	27	27	27	0	0	
NY	Narrows	2499	CT02-3	22	18	18	18	0	0	
NY	Narrows	2499	CT02-4	19	33	33	33	0	0	
NY	Narrows	2499	CT02-5	22	27	27	27	0	0	
NY	Narrows	2499	CT02-6	19	30	30	30	0	0	
NY	Narrows	2499	CT02-7	20	35	35	35	0	0	

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NY	Narrows	2499	CT02-8	19	35	35	35	0	0	
NY	Narrows	2499	OVERDF	16	16		0	0	16	
NY	Nissequogue Cogen	54149	1	94	69	64	64	0	5	
NY	Nissequogue Cogen	54149	OVERDF	0	0		0	0	0	
NY	North 1st	7915	NO1	9	9	2	2	0	7	
NY	North 1st	7915	OVERDF	0	0		0	0	0	
NY	Northport	2516	1	422	426	644	426	0	0	
NY	Northport	2516	2	588	788	913	788	0	0	
NY	Northport	2516	3	491	485	759	485	0	0	
NY	Northport	2516	4	654	654	788	654	0	0	
NY	Northport	2516	UGT001	1	1	0	0	0	1	
NY	Northport	2516	OVERDF	4	980		751	0	229	
NY	Onondaga Cogeneration	50855	1	48	48	3	3	0	45	
NY	Onondaga Cogeneration	50855	2	25	25	2	2	0	23	
NY	Onondaga Cogeneration	50855	OVERDF	0	0		0	0	0	
NY	Oswego Harbor Power	2594	3	0	0	0	0	0	0	
NY	Oswego Harbor Power	2594	5	279	92	92	92	0	0	
NY	Oswego Harbor Power	2594	6	325	30	33	30	0	0	
NY	Oswego Harbor Power	2594	OVERDF	122	253		3	0	250	
NY	Port Jefferson Energy Center	2517	3	311	255	256	255	0	0	
NY	Port Jefferson Energy Center	2517	4	304	271	272	271	0	0	
NY	Port Jefferson Energy Center	2517	UGT001	1	3	3	3	0	0	
NY	Port Jefferson Energy Center	2517	UGT002	9	0	2	0	0	0	
NY	Port Jefferson Energy Center	2517	UGT003	9	0	2	0	0	0	
NY	Port Jefferson Energy Center	2517	OVERDF	2	42		6	0	36	
NY	Pouch Terminal	7911	PT01	9	9	2	2	0	7	
NY	Pouch Terminal	7911	OVERDF	0	0		0	0	0	
NY	PPL Edgewood Energy	55786	CT01	7	7	2	2	0	5	
NY	PPL Edgewood Energy	55786	CT02	7	7	2	2	0	5	
NY	PPL Edgewood Energy	55786	OVERDF	0	0		0	0	0	
NY	PPL Shoreham Energy	55787	CT01	11	11	2	2	0	9	
NY	PPL Shoreham Energy	55787	CT02	11	11	2	2	0	9	
NY	PPL Shoreham Energy	55787	OVERDF	0	0		0	0	0	
NY	Project Orange Facility	54425	001	102	10	10	10	0	0	
NY	Project Orange Facility	54425	002	111	9	9	9	0	0	
NY	Project Orange Facility	54425	OVERDF	0	4		0	0	4	
NY	Ravenswood Generating Station	2500	10	324	337	362	337	0	0	
NY	Ravenswood Generating Station	2500	20	390	331	331	331	0	0	
NY	Ravenswood Generating Station	2500	30	1,580	899	899	899	0	0	
NY	Ravenswood Generating Station	2500	CS0001 (BLR001, BLR003)			24				
NY	Ravenswood Generating Station	2500	BLR001	20	0		0	0	0	
NY	Ravenswood Generating Station	2500	CS0002 (BLR002, BLR004)			54				
NY	Ravenswood Generating Station	2500	BLR002	20	0		0	0	0	
NY	Ravenswood Generating Station	2500	BLR003	20	0		0	0	0	

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NY	Ravenswood Generating Station	2500	BLR004	20	0		0	0	0	
NY	Ravenswood Generating Station	2500	CT0001	1	1	2	1	0	0	
NY	Ravenswood Generating Station	2500	CT0004	5	1	1	1	0	0	
NY	Ravenswood Generating Station	2500	CT0005	5	0	1	0	0	0	
NY	Ravenswood Generating Station	2500	CT0006	7	0	2	0	0	0	
NY	Ravenswood Generating Station	2500	CT0007	7	0	1	0	0	0	
NY	Ravenswood Generating Station	2500	CT0008	6	6	8	6	0	0	
NY	Ravenswood Generating Station	2500	CT0009	5	5	10	5	0	0	
NY	Ravenswood Generating Station	2500	CT0010	5	5	8	5	0	0	
NY	Ravenswood Generating Station	2500	CT0011	5	5	7	5	0	0	
NY	Ravenswood Generating Station	2500	CT02-1	4	4	12	4	0	0	
NY	Ravenswood Generating Station	2500	CT02-2	4	4	12	4	0	0	
NY	Ravenswood Generating Station	2500	CT02-3	4	4	10	4	0	0	
NY	Ravenswood Generating Station	2500	CT02-4	4	4	10	4	0	0	
NY	Ravenswood Generating Station	2500	CT03-1	5	5	7	5	0	0	
NY	Ravenswood Generating Station	2500	CT03-2	5	5	6	5	0	0	
NY	Ravenswood Generating Station	2500	CT03-3	5	5	10	5	0	0	
NY	Ravenswood Generating Station	2500	CT03-4	5	5	10	5	0	0	
NY	Ravenswood Generating Station	2500	OVERDF	13	488		161	0	327	
NY	Rensselaer Cogen	54034	1GTDBS	65	25	4	4	0	21	
NY	Rensselaer Cogen	54034	OVERDF	0	0		0	0	0	
NY	Richard M Flynn (Holtsville)	7314	001	143	104	60	60	0	44	
NY	Richard M Flynn (Holtsville)	7314	OVERDF	0	0		0	0	0	
NY	Rochester 7 - Russell Station	2642	CS1 (1, 2)			487				
NY	Rochester 7 - Russell Station	2642	1	83	10		10	0	0	
NY	Rochester 7 - Russell Station	2642	2	129	4		4	0	0	
NY	Rochester 7 - Russell Station	2642	CS2 (3, 4)			521				
NY	Rochester 7 - Russell Station	2642	3	113	4		4	0	0	
NY	Rochester 7 - Russell Station	2642	4	146	6		6	0	0	
NY	Rochester 7 - Russell Station	2642	OVERDF	7	1,028		984	0	44	
NY	S A Carlson	2682	CS0001(9, 12)			136				
NY	S A Carlson	2682	9	9	87		85	0	2	
NY	S A Carlson	2682	CS0002 (10, 11)			34				
NY	S A Carlson	2682	10	10	35		34	0	1	
NY	S A Carlson	2682	11	0	0		0	0	0	
NY	S A Carlson	2682	12	199	52		51	0	1	
NY	S A Carlson	2682	20	17	17	8	8	0	9	
NY	S A Carlson	2682	OVERDF	0	19		0	0	19	
NY	Saranac Cogeneration	54574	00001	81	48	48	48	0	0	
NY	Saranac Cogeneration	54574	00002	81	56	56	56	0	0	
NY	Saranac Cogeneration	54574	OVERDF	0	0		0	0	0	
NY	Selkirk Cogen Partners	10725	CTG101	160	6	105	6	0	0	
NY	Selkirk Cogen Partners	10725	CTG201	85	0	21	0	0	0	
NY	Selkirk Cogen Partners	10725	CTG301	85	0	19	0	0	0	

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NY	Selkirk Cogen Partners	10725	OVERDF	1	200		139	0	61	
NY	Shoemaker	2632	1	27	18	5	5	0	13	
NY	Shoemaker	2632	OVERDF	0	0		0	0	0	
NY	South Glens Falls Energy	10618	1	82	32	22	22	0	10	
NY	South Glens Falls Energy	10618	OVERDF	0	0		0	0	0	
NY	St. Lawrence Cement	880043	1	1,942	1,367	1,339	1,339	0	28	
NY	St. Lawrence Cement	880043	OVERDF	0	0		0	0	0	
NY	Sterling Energy Facility	50744	00001	98	10	8	8	0	2	
NY	Sterling Energy Facility	50744	OVERDF	0	0		0	0	0	
NY	Ticonderoga Mill	54099	000044	270	220	189	189	0	31	
NY	Ticonderoga Mill	54099	OVERDF	0	0		0	0	0	
NY	Trigen Energy - Nassau Energy	52056	00004	111	142	80	80	0	62	
NY	Trigen Energy - Nassau Energy	52056	OVERDF	0	0		0	0	0	
NY	Trigen Energy - Syracuse	50651	CS0001 (BLR1, BLR2, BLR3, BLR4, BLR5)			493				
NY	Trigen Energy - Syracuse	50651	BLR1	55	99		99	0	0	
NY	Trigen Energy - Syracuse	50651	BLR2	55	103		99	0	4	
NY	Trigen Energy - Syracuse	50651	BLR3	55	93		93	0	0	
NY	Trigen Energy - Syracuse	50651	BLR4	55	99		99	0	0	
NY	Trigen Energy - Syracuse	50651	BLR5	55	99		97	0	2	
NY	Trigen Energy - Syracuse	50651	OVERDF	0	83		6	0	77	
NY	Vernon Boulevard	7909	VB01	6	6	1	1	0	5	
NY	Vernon Boulevard	7909	VB02	6	6	1	1	0	5	
NY	Vernon Boulevard	7909	OVERDF	0	0		0	0	0	
NY	Wading River Facility	7146	UGT007	17	20	107	20	0	0	
NY	Wading River Facility	7146	UGT008	17	17	97	17	0	0	
NY	Wading River Facility	7146	UGT009	17	17	106	17	0	0	
NY	Wading River Facility	7146	UGT013	3	3	17	3	0	0	
NY	Wading River Facility	7146	UGT014	1	1	3	1	0	0	
NY	Wading River Facility	7146	OVERDF	3	278		272	0	6	
NY	Waterside	2502	CS0002 (61, 62)			106				
NY	Waterside	2502	61	95	60		53	0	7	
NY	Waterside	2502	62	107	53		53	0	0	
NY	Waterside	2502	CS0003 (80, 90)			124				
NY	Waterside	2502	80	234	127		62	0	65	
NY	Waterside	2502	90	227	62		62	0	0	
NY	Waterside	2502	OVERDF	39	223		0	0	223	
NY	West Babylon Facility	2521	UGT001	8	24	20	20	0	4	
NY	West Babylon Facility	2521	OVERDF	0	0		0	0	0	
NY	WPS Beaver Falls Generation, LLC	10617	1	47	47	4	4	0	43	
NY	WPS Beaver Falls Generation, LLC	10617	OVERDF	0	0		0	0	0	
NY	WPS Empire State, Inc-Syracuse	10621	1	8	8	2	2	0	6	
NY	WPS Empire State, Inc-Syracuse	10621	OVERDF	0	0		0	0	0	
NY	WPS Niagara Generation, LLC	50202	1	136	135	87	87	0	48	

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NY	WPS Niagara Generation, LLC	50202	OVERDF	0	0		0	0	0	
PA	AES Beaver Valley Partners	10676	032	144	308	308	308	0	0	
PA	AES Beaver Valley Partners	10676	033	131	260	260	260	0	0	
PA	AES Beaver Valley Partners	10676	034	133	267	267	267	0	0	
PA	AES Beaver Valley Partners	10676	035	67	129	129	129	0	0	
PA	AES Beaver Valley Partners	10676	OVERDF	0	2		0	0	2	
PA	AES Ironwood	55337	0001	141	71	18	18	53	0	
PA	AES Ironwood	55337	0002	71	71	18	18	53	0	
PA	AES Ironwood	55337	OVERDF	0	0		0	0	0	
PA	Allegheny Energy Unit 1 and Unit 2	55196	1	34	32	4	4	27	1	
PA	Allegheny Energy Unit 1 and Unit 2	55196	2	32	32	5	5	26	1	
PA	Allegheny Energy Unit 1 and Unit 2	55196	OVERDF	0	0		0	0	0	
PA	Allegheny Energy Unit 8 and Unit 9	55377	8	41	39	2	2	36	1	
PA	Allegheny Energy Unit 8 and Unit 9	55377	9	39	39	2	2	36	1	
PA	Allegheny Energy Unit 8 and Unit 9	55377	OVERDF	0	0		0	0	0	
PA	**Allegheny Energy Units 3, 4 & 5[4]**	**55710**	**3**	**29**	**29**	**4**	**2**	**27**	**0**	
PA	**Allegheny Energy Units 3, 4 & 5[4]**	**55710**	**4**	**29**	**29**	**4**	**2**	**27**	**0**	
PA	Allegheny Energy Units 3, 4 & 5	55710	OVERDF	0	0		0	0	0	
PA	Armagh Compressor Station	880071	31301	40	40	0	0	40	0	
PA	Armagh Compressor Station	880071	OVERDF	0	0		0	0	0	
PA	Armstrong Energy Ltd Part	55347	1	54	54	10	10	43	1	
PA	Armstrong Energy Ltd Part	55347	2	54	54	3	3	51	0	
PA	Armstrong Energy Ltd Part	55347	3	54	54	8	8	42	4	
PA	Armstrong Energy Ltd Part	55347	4	54	54	8	8	44	2	
PA	Armstrong Energy Ltd Part	55347	OVERDF	396	0		0	0	0	
PA	Armstrong Power Station	3178	1	363	584	584	584	0	0	
PA	Armstrong Power Station	3178	2	383	492	492	492	0	0	
PA	Armstrong Power Station	3178	OVERDF	55	75		0	0	75	
PA	Bernville Station	880049	32001	98	0	0	0	0	0	
PA	Bernville Station	880049	OVERDF	0	0		0	0	0	
PA	Bethlehem Power Plant	55690	1	20	20	8	4	16	0	
PA	Bethlehem Power Plant	55690	2	20	20	7	4	16	0	
PA	Bethlehem Power Plant	55690	3	20	20	6	3	17	0	
PA	Bethlehem Power Plant	55690	4	0	0	0	0	0	0	
PA	Bethlehem Power Plant	55690	5	74	49	8	0	49	0	
PA	**Bethlehem Power Plant[5]**	**55690**	**6**	**74**	**49**	**6**	**0**	**49**	**0**	
PA	**Bethlehem Power Plant[5]**	**55690**	**7**	**74**	**49**	**6**	**0**	**49**	**0**	
PA	Bethlehem Power Plant	55690	OVERDF	0	75		21	54	0	
PA	Bruce Mansfield	6094	1	1,953	296	884	296	0	0	
PA	Bruce Mansfield	6094	2	1,672	0	986	0	0	0	
PA	Bruce Mansfield	6094	3	1,636	1,939	4,737	1,939	0	0	
PA	Bruce Mansfield	6094	OVERDF	0	4,765		4,372	0	393	
PA	Brunner Island	3140	CS102 (1, 2)			2,364				
PA	Brunner Island	3140	1	2,422	1,085		1,085	0	0	

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PA	Brunner Island	3140	2	718	1,279		1,279	0	0	
PA	Brunner Island	3140	3	1,539	2,238	2,238	2,238	0	0	
PA	Brunner Island	3140	OVERDF	0	3		0	0	3	
PA	Brunot Island Power Station	3096	3	0	2	2	2	0	0	
PA	Brunot Island Power Station	3096	2A	0	4	4	4	0	0	
PA	Brunot Island Power Station	3096	2B	0	1	1	1	0	0	
PA	Brunot Island Power Station	3096	OVERDF	0	9		0	0	9	
PA	Cambria Cogen	10641	1	155	121	96	96	0	25	
PA	Cambria Cogen	10641	2	161	121	93	93	0	28	
PA	Cambria Cogen	10641	OVERDF	0	0		0	0	0	
PA	Chambersburg Units 12 and 13	55654	12	40	38	6	6	31	1	
PA	Chambersburg Units 12 and 13	55654	13	38	38	6	6	31	1	
PA	Chambersburg Units 12 and 13	55654	OVERDF	0	0		0	0	0	
PA	Cheswick	8226	1	1,253	758	431	431	0	327	
PA	Cheswick	8226	OVERDF	0	0		0	0	0	
PA	Colver Power Project	10143	AAB01	2,188	255	249	249	0	6	
PA	Colver Power Project	10143	OVERDF	0	0		0	0	0	
PA	Conemaugh	3118	1	2,167	3,931	3,931	3,931	0	0	
PA	Conemaugh	3118	2	1,995	3,636	3,636	3,636	0	0	
PA	Conemaugh	3118	OVERDF	0	91		0	0	91	
PA	ConocoPhillips Co., Trainer Refinery	880025	032	114	104	103	103	0	1	
PA	ConocoPhillips Co., Trainer Refinery	880025	033	80	96	96	96	0	0	
PA	ConocoPhillips Co., Trainer Refinery	880025	OVERDF	0	4		0	0	4	
PA	Cromby	3159	1	824	487	479	479	0	8	
PA	Cromby	3159	2	201	140	135	135	0	5	
PA	Cromby	3159	OVERDF	0	0		0	0	0	
PA	Croydon Generating Station	8012	11	11	5	0	0	0	5	
PA	Croydon Generating Station	8012	12	9	10	6	6	0	4	
PA	Croydon Generating Station	8012	21	5	10	7	7	0	3	
PA	Croydon Generating Station	8012	22	11	15	8	8	0	7	
PA	Croydon Generating Station	8012	31	13	10	6	6	0	4	
PA	Croydon Generating Station	8012	32	6	15	11	11	0	4	
PA	Croydon Generating Station	8012	41	11	10	5	5	0	5	
PA	Croydon Generating Station	8012	42	9	15	8	8	0	7	
PA	Croydon Generating Station	8012	OVERDF	0	0		0	0	0	
PA	Delaware	3160	71	61	70	66	66	0	4	
PA	Delaware	3160	81	56	85	81	81	0	4	
PA	Delaware	3160	OVERDF	0	0		0	0	0	
PA	Ebensburg Power Company	10603	031	275	100	83	83	0	17	
PA	Ebensburg Power Company	10603	OVERDF	0	0		0	0	0	
PA	Eddystone	3161	CS034 (3, 4)			319				
PA	Eddystone	3161	1	584	879	868	868	0	11	
PA	Eddystone	3161	2	636	710	706	706	0	4	
PA	Eddystone	3161	3	207	200		191	0	9	

APPENDIX A: 2003 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
PA	Eddystone	3161	4	237	135		128	0	7	
PA	Eddystone	3161	OVERDF	0	0		0	0	0	
PA	Elrama	3098	CS001 (1, 2, 3, 4)			1,913				
PA	Elrama	3098	1	348	389		389	0	0	
PA	Elrama	3098	2	209	372		372	0	0	
PA	Elrama	3098	3	208	326		326	0	0	
PA	Elrama	3098	4	428	826		824	0	2	
PA	Elrama	3098	OVERDF	0	20		0	0	20	
PA	Entriken Compressor Station	880072	31601	41	41	0	0	41	0	
PA	Entriken Compressor Station	880072	OVERDF	0	0		0	0	0	
PA	Fairless Hills Generating Station	7701	PHBLR3	25	10	1	1	0	9	
PA	Fairless Hills Generating Station	7701	PHBLR4	32	20	15	15	0	5	
PA	Fairless Hills Generating Station	7701	PHBLR5	77	15	12	12	0	3	
PA	Fairless Hills Generating Station	7701	OVERDF	0	0		0	0	0	
PA	Fayette Energy Facility	55516	CTG1	0	0	4	0	0	0	
PA	Fayette Energy Facility	55516	CTG2	0	0	3	0	0	0	
PA	Fayette Energy Facility	55516	OVERDF	0	9		7	0	2	
PA	FPL Energy Marcus Hook, LP	55801	0004	0	0		0	0	0	
PA	FPL Energy Marcus Hook, LP	55801	0005	0	0		0	0	0	
PA	FPL Energy Marcus Hook, LP	55801	0006	0	0		0	0	0	
PA	FPL Energy Marcus Hook, LP	55801	0007	0	0		0	0	0	
PA	FPL Energy Marcus Hook, LP	55801	OVERDF	0	0		0	0	0	
PA	FPL Energy MH50	50074	001	163	23	19	19	0	4	
PA	FPL Energy MH50	50074	OVERDF	0	0		0	0	0	
PA	G F Weaton	50130	34	176	214	215	214	0	0	
PA	G F Weaton	50130	35	180	256	260	256	0	0	
PA	G F Weaton	50130	OVERDF	0	10		5	0	5	
PA	Gilberton Power Company	10113	CS001 (031, 032)			78				
PA	Gilberton Power Company	10113	031	137	39		39	0	0	
PA	Gilberton Power Company	10113	032	136	39		39	0	0	
PA	Gilberton Power Company	10113	OVERDF	0	0		0	0	0	
PA	Grays Ferry Cogen Partnership	54785	2	114	114	46	46	43	25	
PA	Grays Ferry Cogen Partnership	54785	25	62	62	21	21	28	13	
PA	Grays Ferry Cogen Partnership	54785	OVERDF	0	0		0	0	0	
PA	Handsome Lake Energy	55233	EU-1A	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-1B	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-2A	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-2B	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-3A	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-3B	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-4A	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-4B	0	0	0	0	0	0	
PA	Handsome Lake Energy	55233	EU-5A	0	0	1	0	0	0	
PA	Handsome Lake Energy	55233	EU-5B	0	0	1	0	0	0	

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
PA	Handsome Lake Energy	55233	OVERDF	0	2		2	0	0	
PA	Hatfields Ferry Power Station	3179	XS123 (1, 2, 3)			5,142				
PA	Hatfields Ferry Power Station	3179	1	2,257	1,964		1,964	0	0	
PA	Hatfields Ferry Power Station	3179	2	1,029	1,228		1,228	0	0	
PA	Hatfields Ferry Power Station	3179	3	1,087	1,950		1,950	0	0	
PA	Hatfields Ferry Power Station	3179	OVERDF	0	363		0	0	363	
PA	Homer City	3122	1	1,879	1,107	1,101	1,101	0	6	
PA	Homer City	3122	2	1,553	1,375	1,369	1,369	0	6	
PA	Homer City	3122	3	1,437	1,182	1,175	1,175	0	7	
PA	Homer City	3122	OVERDF	0	45		0	0	45	
PA	Hunlock Power Station	3176	4	29	29	9	9	19	1	
PA	Hunlock Power Station	3176	6	183	131	121	121	0	10	
PA	Hunlock Power Station	3176	OVERDF	0	0		0	0	0	
PA	Hunterstown	3110	CT101	40	94	58	58	36	0	
PA	Hunterstown	3110	CT201	40	127	92	92	35	0	
PA	Hunterstown	3110	CT301	40	121	85	85	36	0	
PA	Hunterstown	3110	OVERDF	0	15		0	0	15	
PA	Keystone	3136	1	2,157	582	582	582	0	0	
PA	Keystone	3136	2	2,133	576	576	576	0	0	
PA	Keystone	3136	OVERDF	0	10		0	0	10	
PA	Kimberly-Clark Tissue Company	50410	034	1	1	0	0	0	1	
PA	Kimberly-Clark Tissue Company	50410	035	345	65	60	60	0	5	
PA	Kimberly-Clark Tissue Company	50410	OVERDF	0	0		0	0	0	
PA	Liberty Electric Power Plant	55231	0001	191	59	8	8	48	3	
PA	Liberty Electric Power Plant	55231	0002	59	59	8	8	48	3	
PA	Liberty Electric Power Plant	55231	OVERDF	0	0		0	0	0	
PA	LTV Steel Company-Pittsburgh Works	880036	B008	25	0		0	0	0	
PA	LTV Steel Company-Pittsburgh Works	880036	B009	15	0		0	0	0	
PA	LTV Steel Company-Pittsburgh Works	880036	B010	29	0		0	0	0	
PA	LTV Steel Company-Pittsburgh Works	880036	B011	55	0		0	0	0	
PA	LTV Steel Company-Pittsburgh Works	880036	OVERDF	0	0		0	0	0	
PA	Martins Creek	3148	CS102 (1, 2)			738				
PA	Martins Creek	3148	1	314	440		440	0	0	
PA	Martins Creek	3148	2	293	298		298	0	0	
PA	Martins Creek	3148	3	543	792	792	792	0	0	
PA	Martins Creek	3148	4	500	464	464	464	0	0	
PA	Martins Creek	3148	AUX4B	0	0	0	0	0	0	
PA	Martins Creek	3148	OVERDF	0	4		0	0	4	
PA	Merck & Company - West Point	52149	039	126	38	38	38	0	0	
PA	Merck & Company - West Point	52149	040	26	26	24	24	0	2	
PA	Merck & Company - West Point	52149	OVERDF	0	13		0	0	13	
PA	Mitchell Power Station	3181	1	429	7	7	7	0	0	
PA	Mitchell Power Station	3181	2	6	9	9	9	0	0	
PA	Mitchell Power Station	3181	3	9	0	0	0	0	0	

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2003 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS AS OF 11/30/2003 (INCLUDES 2003)	2003 NOx EMISSIONS (TONS)	ALLOWANCES DEDUCTED FOR EMISSIONS	ALLOWANCES DEDUCTED FOR NEW UNIT TAKEBACK	REMAINING ALLOWANCES (INCLUDES 2003)	
PA	Mitchell Power Station	3181	33	556	600	600	600	0	0	
PA	Mitchell Power Station	3181	OVERDF	0	62		0	0	62	
PA	Montour	3149	1	3,144	465	465	465	0	0	
PA	Montour	3149	2	1,673	430	430	430	0	0	
PA	Montour	3149	AUX1	0	2	2	2	0	0	
PA	Montour	3149	AUX2	0	3	3	3	0	0	
PA	Montour	3149	OVERDF	0	4		0	0	4	
PA	Mountain	3111	031	6	6	6	6	0	0	
PA	Mountain	3111	032	5	4	4	4	0	0	
PA	Mountain	3111	OVERDF	0	2		0	0	2	
PA	Mt. Carmel Cogeneration	10343	SG-101	152	96	96	96	0	0	
PA	Mt. Carmel Cogeneration	10343	OVERDF	0	0		0	0	0	
PA	New Castle	3138	3	190	324	324	324	0	0	
PA	New Castle	3138	4	904	315	315	315	0	0	
PA	New Castle	3138	5	245	379	379	379	0	0	
PA	New Castle	3138	OVERDF	0	15		0	0	15	
PA	North East Cogeneration Plant	54571	001	103	3	2	2	0	1	
PA	North East Cogeneration Plant	54571	002	109	9	2	2	0	7	
PA	North East Cogeneration Plant	54571	OVERDF	0	0		0	0	0	
PA	Northampton Generating Plant	50888	NGC01	291	113	110	110	0	3	
PA	Northampton Generating Plant	50888	OVERDF	0	0		0	0	0	
PA	Northeastern Power Company	50039	031	188	75	65	65	0	10	
PA	Northeastern Power Company	50039	OVERDF	0	0		0	0	0	
PA	Ontelaunee Energy Center	55193	CT1	21	21	8	8	12	1	
PA	Ontelaunee Energy Center	55193	CT2	21	21	8	8	12	1	
PA	Ontelaunee Energy Center	55193	OVERDF	0	0		0	0	0	
PA	P H Glatfelter Company	50397	034	112	323	323	323	0	0	
PA	P H Glatfelter Company	50397	035	137	251	251	251	0	0	
PA	P H Glatfelter Company	50397	036	211	264	264	264	0	0	
PA	P H Glatfelter Company	50397	OVERDF	7	4		0	0	4	
PA	Panther Creek Energy Facility	50776	1	134	119	118	118	0	1	
PA	Panther Creek Energy Facility	50776	2	130	120	119	119	0	1	
PA	Panther Creek Energy Facility	50776	OVERDF	0	0		0	0	0	
PA	PEI Power Power Corporation	50279	2	65	65	7	7	55	3	
PA	PEI Power Power Corporation	50279	OVERDF	0	0		0	0	0	
PA	Philadelphia Refinery	52106	CS0001 (150137, 150138, 150139, 150140)			400				
PA	Philadelphia Refinery	52106	150137	119	119		100	0	19	
PA	Philadelphia Refinery	52106	150138	83	83		80	0	3	
PA	Philadelphia Refinery	52106	150139	105	105		100	0	5	
PA	Philadelphia Refinery	52106	150140	127	127		120	0	7	
PA	Philadelphia Refinery	52106	OVERDF	0	0		0	0	0	
PA	Piney Creek Power Plant	54144	031	102	62	50	50	0	12	
PA	Piney Creek Power Plant	54144	OVERDF	0	0		0	0	0	

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PA	Portland	3113	1	269	412	412	412	0	0	
PA	Portland	3113	2	412	598	598	597	0	1	
PA	Portland	3113	5	48	26	26	26	0	0	
PA	Portland	3113	OVERDF	0	15		0	0	15	
PA	Procter & Gamble Paper Products	50463	328001	205	124	119	119	0	5	
PA	Procter & Gamble Paper Products	50463	OVERDF	0	0		0	0	0	
PA	Richmond	3168	91	10	5	1	1	0	4	
PA	Richmond	3168	92	9	5	3	3	0	2	
PA	Richmond	3168	OVERDF	0	0		0	0	0	
PA	Schuylkill	3169	1	89	45	40	40	0	5	
PA	Schuylkill	3169	OVERDF	0	0		0	0	0	
PA	Scrubgrass Generating Plant	50974	1	124	0	44	0	0	0	
PA	Scrubgrass Generating Plant	50974	2	123	0	67	0	0	0	
PA	Scrubgrass Generating Plant	50974	OVERDF	0	117		111	0	6	
PA	Seward	3130	CS2 (12, 14, 15)			566				
PA	Seward	3130	12	4,403	26		26	0	0	
PA	Seward	3130	14	72	0		0	0	0	
PA	Seward	3130	15	355	540		540	0	0	
PA	Seward	3130	OVERDF	0	15		0	0	15	
PA	Shawville	3131	CS1 (3, 4)			1,238				
PA	Shawville	3131	1	300	660	660	660	0	0	
PA	Shawville	3131	2	294	634	634	634	0	0	
PA	Shawville	3131	3	380	562		562	0	0	
PA	Shawville	3131	4	392	676		676	0	0	
PA	Shawville	3131	OVERDF	0	20		0	0	20	
PA	Shenango Incorporated	54532	6	59	65	47	47	0	18	
PA	**Shenango Incorporated[6]**	**54532**	**9**	**11**	**11**	**21**	**11**	**0**	**0**	
PA	Shenango Incorporated	54532	OVERDF	0	0		0	0	0	
PA	Shermans Dale Station	880050	31801	0	0	0	0	0	0	
PA	Shermans Dale Station	880050	OVERDF	0	0		0	0	0	
PA	St. Nicholas Cogeneration Project	54634	1	289	103	102	102	0	1	
PA	St. Nicholas Cogeneration Project	54634	OVERDF	0	0		0	0	0	
PA	Sunbury	3152	3	268	181	181	181	0	0	
PA	Sunbury	3152	4	302	472	472	472	0	0	
PA	Sunbury	3152	CS1 (1A, 1B)			290				
PA	Sunbury	3152	1A	134	141		141	0	0	
PA	Sunbury	3152	1B	122	149		149	0	0	
PA	Sunbury	3152	CS2 (2A, 2B)			188				
PA	Sunbury	3152	2A	130	84		84	0	0	
PA	Sunbury	3152	2B	134	104		104	0	0	
PA	Sunbury	3152	OVERDF	0	200		0	0	200	
PA	Sunoco (R&M) - Marcus Hook	880020	088	0	24	0	0	0	24	
PA	Sunoco (R&M) - Marcus Hook	880020	089	115	55	52	52	0	3	
PA	Sunoco (R&M) - Marcus Hook	880020	OVERDF	0	0		0	0	0	

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PA	**Sunoco Chemicals Frankford Plant[7]**	**880007**	**052**	**90**	**105**	**106**	**105**	**0**	**0**	
PA	Titus	3115	1	165	215	215	215	0	0	
PA	Titus	3115	2	152	207	207	207	0	0	
PA	Titus	3115	3	151	188	188	188	0	0	
PA	Titus	3115	OVERDF	0	15		0	0	15	
PA	Tolna	3116	031	3	19	19	19	0	0	
PA	Tolna	3116	032	5	12	12	12	0	0	
PA	Tolna	3116	OVERDF	0	4		0	0	4	
PA	Trigen Energy - Schuykill	50607	23	233	0	0	0	0	0	
PA	Trigen Energy - Schuykill	50607	24	234	0	0	0	0	0	
PA	Trigen Energy - Schuykill	50607	26	234	3	3	3	0	0	
PA	Trigen Energy - Schuykill	50607	OVERDF	0	0		0	0	0	
PA	Trigen Energy Corporation-Edison St	880006	1	12	6	5	5	0	1	
PA	Trigen Energy Corporation-Edison St	880006	2	10	7	7	7	0	0	
PA	Trigen Energy Corporation-Edison St	880006	3	5	22	22	22	0	0	
PA	Trigen Energy Corporation-Edison St	880006	4	6	24	24	24	0	0	
PA	Trigen Energy Corporation-Edison St	880006	OVERDF	0	0		0	0	0	
PA	US Steel (Clariton Coke)	50729	CLBLR1	191	99	96	96	0	3	
PA	US Steel (Clariton Coke)	50729	CLBLR2	118	88	84	84	0	4	
PA	US Steel (Clariton Coke)	50729	OVERDF	0	0		0	0	0	
PA	US Steel (Edgar Thompson)	50732	ETBLR1	142	17	16	16	0	1	
PA	US Steel (Edgar Thompson)	50732	ETBLR2	157	17	16	16	0	1	
PA	US Steel (Edgar Thompson)	50732	ETBLR3	151	18	18	18	0	0	
PA	US Steel (Edgar Thompson)	50732	OVERDF	0	0		0	0	0	
PA	Warren	3132	005	14	8	6	6	0	2	
PA	Warren	3132	OVERDF	0	0		0	0	0	
PA	Wayne	3134	031	8	2	1	1	0	1	
PA	Wayne	3134	OVERDF	0	0		0	0	0	
PA	Westwood	50611	031	391	151	118	118	0	33	
PA	Westwood	50611	OVERDF	0	0		0	0	0	
PA	Wheelabrator - Frackville	50879	GEN1	189	109	107	107	0	2	
PA	Wheelabrator - Frackville	50879	OVERDF	0	0		0	0	0	
PA	Willamette Industries	54638	CS1 (041, 042)			277				
PA	Willamette Industries	54638	040	90	139		138	0	1	
PA	Willamette Industries	54638	041	89	139		139	0	0	
PA	Willamette Industries	54638	OVERDF	0	1		0	0	1	
PA	Williams Generation Co (Hazleton)	10870	TURB2	30	30	1	1	29	0	
PA	Williams Generation Co (Hazleton)	10870	TURB3	30	30	2	2	28	0	
PA	Williams Generation Co (Hazleton)	10870	TURB4	30	30	2	2	28	0	
PA	Williams Generation Co (Hazleton)	10870	TURBIN	141	20	2	2	0	18	
PA	Williams Generation Co (Hazleton)	10870	OVERDF	0	0		0	0	0	
RI	Manchester Street	3236	9	87	87	27	27	0	60	
RI	Manchester Street	3236	10	87	87	24	24	0	63	
RI	Manchester Street	3236	11	88	88	33	33	0	55	

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RI	Manchester Street	3236	OVERDF	0	0		0	0	0	
RI	Ocean State Power	51030	1	68	19	19	19	0	0	
RI	Ocean State Power	51030	2	69	24	24	24	0	0	
RI	Ocean State Power	51030	OVERDF	0	0		0	0	0	
RI	Ocean State Power II	54324	3	69	20	19	19	0	1	
RI	Ocean State Power II	54324	4	69	22	18	18	0	4	
RI	Ocean State Power II	54324	OVERDF	0	0		0	0	0	
RI	Pawtucket Power Associates, LP	54056	1	42	28	1	1	0	27	
RI	Pawtucket Power Associates, LP	54056	OVERDF	0	0		0	0	0	
RI	Rhode Island State Energy Partners	55107	RISEP1	26	23	15	15	0	8	
RI	Rhode Island State Energy Partners	55107	RISEP2	26	26	14	14	0	12	
RI	Rhode Island State Energy Partners	55107	OVERDF	0	0		0	0	0	
RI	Tiverton Power Associates	55048	1	46	31	16	16	0	15	
RI	Tiverton Power Associates	55048	OVERDF	0	0		0	0	0	

[1] South Norwalk Electric & Water unit U7 had 9 year 2004 allowances deducted as a penalty for being 3 allowances short of covering its emissions.

[2] Perryman unit **51 had 96 year 2004 allowances deducted as a penalty for being 32 allowances short of covering its emissions.

[3] Obrien (Newark) Cogeneration unit 1001 had 48 year 2004 allowances deducted as a penalty for being 16 allowances short of covering its emissions.

[4] Allegheny Energy Units 3, 4 & 5 had 12 year 2004 allowances deducted as a penalty for being 4 allowances short of covering its emissions.

[5] Bethlehem Power Plant units 6 and 7 had 27 year 2004 allowances deducted as a penalty for being 9 allowances short of covering its emissions.

[6] Shenango unit 9 had 11 year 2004, 11 year 2005, and 8 2006 allowances deducted as a penalty for being 10 allowances short of covering its emissions.

[7] Sunoco Chemicals Frankford Plant unit 52 had 3 year 2004 allowances deducted as a penalty for being 1 allowance short of covering its emissions.

* CS stands for Common Stack, which includes emissions from more than one unit. XS stands for Complex Stack, which includes emissions from one or more Common Stacks and/or Multiple Stacks (MS).

United States
Environmental Protection Agency
Office of Air and Radiation (6204J)
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