

# NO<sub>x</sub> Budget Trading Program

Compliance and Environmental Results



2007





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Office of Atmospheric Programs  
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1200 Pennsylvania Ave., NW  
Washington, DC 20460

EPA-430-R-08-008  
December 2008



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# Executive Summary

The NO<sub>x</sub> Budget Trading Program (NBP) is a market-based cap and trade program created to reduce the regional transport of emissions of nitrogen oxides (NO<sub>x</sub>) from power plants and other large combustion sources that contribute to ozone nonattainment in the eastern United States. NO<sub>x</sub> is a major precursor to the formation of ground-level ozone, a pervasive air pollution problem in

many areas in the East. The NBP was designed to reduce NO<sub>x</sub> emissions during the warm summer months, referred to as the ozone season, when ground-level ozone concentrations are highest. This report evaluates progress under the NBP in 2007 by examining emission reductions, reviewing compliance results and market activity, and comparing changes in emissions to changes in ozone concentrations.

## Key Components of the NBP

The NBP is an ozone season (May 1 to September 30) cap and trade program for electric generating units (EGUs) and large industrial combustion sources, primarily boilers and turbines. The program has several important features:

- The NBP establishes a region-wide cap for ozone season NO<sub>x</sub> emissions. The cap is the sum of the state emission budgets established by the United States Environmental Protection Agency (EPA) under the NO<sub>x</sub> State Implementation Plan (SIP) Call to help states meet their air quality goals to protect human health and the environment.
- Authorizations to emit, known as allowances, are allocated to affected sources based on state trading budgets. The NO<sub>x</sub> allowance market enables sources to trade (buy and sell) allowances throughout the year.
- Sources can choose among several options to reduce NO<sub>x</sub> emissions. Options include adding emission control technologies, replacing existing controls with more advanced technologies, optimizing existing controls, or switching fuels.
- At the end of every ozone season, each source must surrender sufficient allowances to cover its ozone season NO<sub>x</sub> emissions (each allowance represents one ton of NO<sub>x</sub> emissions). This process is called annual reconciliation.
- If a source does not have enough allowances to cover its emissions, EPA automatically deducts allowances from the following year's allocation at a 3:1 ratio.
- If a source has excess allowances because it reduced emissions beyond required levels, it can sell the unused allowances or bank (save) them for use in a future ozone season.
- To accurately monitor and report emissions, sources use continuous emission monitoring systems (CEMS) or other approved monitoring methods under EPA's stringent monitoring requirements (Title 40 of the Code of Federal Regulations [CFR], Part 75).

For more information on the NBP, see <[www.epa.gov/airmarkets/progsregs/nox/sip.html](http://www.epa.gov/airmarkets/progsregs/nox/sip.html)>.

## 2007 Key Results

### Emissions

- Since the program began in 2003, the NBP has successfully reduced ozone season NO<sub>x</sub> emissions throughout the region. In 2007, NBP ozone season NO<sub>x</sub> emissions\* totaled approximately 506,000 tons and were:
  - 5 percent below the emission cap, despite a 3 percent increase in heat input.
  - 60 percent lower than in 2000 (before implementation of the NBP).
  - 74 percent lower than in 1990 (before implementation of the Clean Air Act Amendments).

### Compliance

- Through a wide range of pollution control strategies, sources achieved over 99 percent compliance:
  - There were 2,594 units affected under the NBP in 2007. Twelve units at 11 separate NBP sources did not hold sufficient allowances to cover their emissions. Only one unit was more than 10 allowances short.
  - 2007 is the fifth year of the NBP, and the fourth year in which sources achieved more emission reductions than required under the program.

### Allowance Market

- There was an active allowance market in 2007:
  - Overall, allowance prices appear to be leveling out as prices approach the operating costs of selective catalytic reduction (SCR), a NO<sub>x</sub> control technology.
  - Trading has slowed but the allowance bank continues to grow.

### Ozone

- Ground-level ozone has decreased since implementation of the NBP in 2003:
  - Meteorologically-adjusted seasonal 8-hour ozone levels in the NBP region have fallen by 10 percent between 2002 (before the NBP) and 2007.
  - Additional analyses using different metrics have reported similar results, with average ozone reductions ranging from 8 to 11 percent in the NBP region since implementation of the program.
  - A case study highlighting research by the Maryland Department of the Environment shows how ozone air quality in Maryland has improved dramatically since implementation of the NBP.

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\* Comparisons include several counties in eastern Missouri, which first became subject to the NBP in 2007.



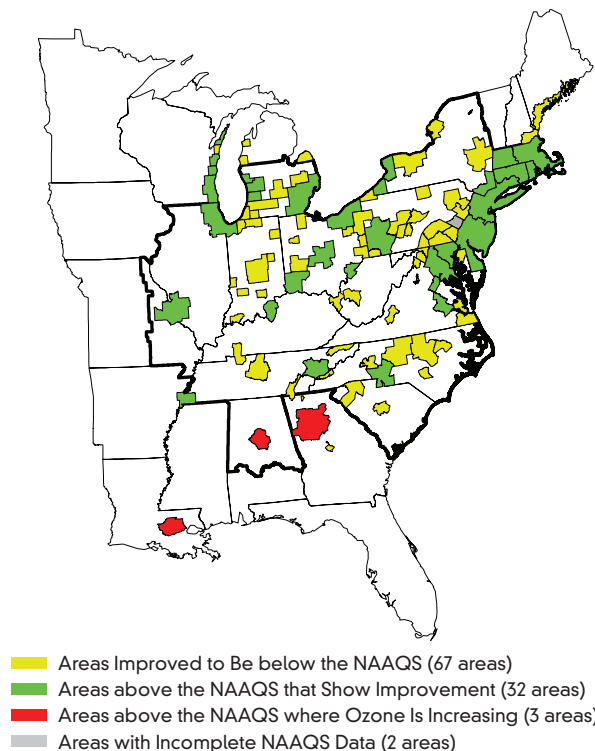
### Nonattainment Areas

- Based on 2005–2007 air monitoring data, ozone air quality improved in almost all of the 104 areas in the eastern United States designated to be in nonattainment for the 1997 8-hour National Ambient Air Quality Standard (NAAQS) (see map).\*
- Furthermore, 64 percent of these areas (67 areas) now have air quality that is better than the level of the standard. The NBP is the most significant contributor to these improvements.
- There is a strong association between areas with the greatest reductions in NO<sub>x</sub> emissions and downwind sites exhibiting the greatest improvements in ozone.

### Clean Air Interstate Rule (CAIR)

- Federal and state efforts to reduce ozone are ongoing in the East.
  - Several federal mobile source programs will continue the progress demonstrated by the NBP. CAIR would further control emissions to reduce both ozone and fine particles in 28 eastern states and the District of Columbia.
  - On July 11, 2008, the U.S. Court of Appeals for the District of Columbia Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition. In the meantime, EPA is working with states to continue the NBP if the CAIR program is not in effect in May 2009.

### Changes in 8-Hour Ozone Nonattainment Areas in the East, 2001–2003 (Original Designations) versus 2005–2007



Note: States in the NBP region are shown inside the black boundary line.

Source: EPA, 2008.

\* States will make recommendations to EPA no later than March 2009 for areas to be designated in attainment, nonattainment, or unclassifiable under a new, more stringent ozone NAAQS promulgated in 2008.

The NO<sub>x</sub> State Implementation Plan (SIP) Call was designed to **reduce the regional transport of ozone and ozone-forming pollutants** in the East.





# Introduction

Ozone in the Earth's upper atmosphere (the stratosphere) shields the planet from the sun's harmful ultraviolet rays. However, at ground level (the troposphere), ozone contributes to a number of serious health and ecological effects. The U.S. Environmental Protection Agency (EPA) has worked with state, local, and tribal representatives for more than three decades to reduce emissions that contribute to the formation of ozone. From 1980–2007, average U.S. ambient ozone concentration levels decreased substantially, by 21 percent nationally (see ozone trends at [www.epa.gov/air/airtrends/ozone.html](http://www.epa.gov/air/airtrends/ozone.html)).

In the 1970s, EPA established the National Ambient Air Quality Standard (NAAQS) for ozone. A 1-hour standard of 0.08 parts per million (ppm) was set in 1971 and revised to 0.12 in 1979. In 1997, a new, more stringent 8-hour ozone standard of 0.08 ppm was promulgated, revising the 1979 standard.

EPA responded by developing programs to reduce NO<sub>x</sub> emissions, including the NO<sub>x</sub> State Implementation Plan (SIP) Call rule in 1998. This rule was designed to reduce the regional transport of ozone and ozone-forming pollutants in the East. All 20 affected states and the District of Columbia (DC) chose to meet mandatory NO<sub>x</sub> SIP Call reductions, primarily through participation in the NO<sub>x</sub> Budget Trading Program (NBP), a market-based cap and trade program for electric generating units (EGUs) and large industrial units.

In March 2008, EPA again strengthened the 8-hour ozone standard to 0.075 ppm. The new standard will result in significant human health benefits in addition to protecting vegetation and ecosystems.

This report examines continued progress in 2007 under the NBP and builds on previous analyses in the following areas:

- Discussion of ozone effects on human health and the environment, including the introduction of the new 2008 ozone standard.
- Effectiveness of the NBP in 2007, including emission reductions and corresponding changes in ozone concentrations.
- Progress and compliance under the NBP, including market activity and compliance options.
- Transition to the broader Clean Air Interstate Rule (CAIR)\* trading programs in 2009.

Appendix A to this year's report provides a list of acronyms, while Appendix B includes a table describing emission trends, by state, from EGUs. Appendix C includes a table of annual state budgets over the history of the NBP. Appendix D contains all of the emission and allowance data for each unit affected under the NBP and is available only online. To view this report and Appendices A through D, see <http://www.epa.gov/airmarkets/progress/progress-reports.html>.

Finally, many of the maps presented in this report are available in an interactive file format, viewable using Google Earth or a similar three-dimensional platform. To download these maps, go to [www.epa.gov/airmarkets/progress/interactivemapping.html](http://www.epa.gov/airmarkets/progress/interactivemapping.html).

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\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.

Federal, state, and local programs have significantly reduced **NO<sub>x</sub>** and **VOC emissions** in the eastern United States.



# SECTION 1

## Background: Ozone and Major Emission Control Programs

This section provides background on ozone formation and effects, as well as information on manmade sources and emissions of ozone precursor pollutants—NO<sub>x</sub> and volatile organic compounds (VOCs). EPA's major NO<sub>x</sub> and VOC reduction programs are discussed, with a focus on the power sector.

### Ozone Formation

Ozone pollution forms when NO<sub>x</sub> and VOCs react in the presence of sunlight. Ozone itself is rarely emitted directly into the air. Major sources of NO<sub>x</sub> and VOC emissions include motor vehicles, solvents, industrial facilities, and electric power plants.

Meteorology plays a significant role in ozone formation. Dry, hot, sunny days are most favorable for

ozone production. In general, ozone concentrations increase during the daylight hours, peak in the afternoon when the temperature and sunlight intensity are highest, and drop in the evening. Because ground-level ozone concentrations are highest when sunlight is most intense, the warm summer months (May 1 to September 30) are known as the ozone season.

Weather also affects ozone concentrations and how quickly ozone is transported or dispersed. Very light winds or no wind can allow ozone (and ozone precursors) to build up in an area, providing a favorable environment for the chemical reactions necessary to generate more ozone. Winds can also bring more pollution to an area, sometimes from hundreds of miles away. Ozone levels are typically

### Climate Change and Ozone Studies

EPA's Global Change Research Program recently finalized a draft scenario-based assessment of the potential consequences of global climate change on regional air quality. This report considered direct meteorological impacts on atmospheric chemistry and transport, as well as the effect of temperature changes on various air pollution emissions. The assessment focused on a 2050 scenario and summarized key recent studies that indicate ground-level ozone concentrations will rise with increases in temperature due to climate change.<sup>1</sup> The projected rise in ozone concentrations would be a result of faster atmospheric reactions, increases in biogenic (natural) precursor emissions, and more numerous stagnation events. This rise in ozone con-

centrations is projected to increase the number of high ozone days and ozone NAAQS nonattainment areas, especially in the Northeast and Midwest. Nevertheless, the projected increases in ozone concentrations due to climate change are less than the projected decreases in ozone concentrations from current pollutant reduction strategies (such as CAIR\* and the mobile source rules). The draft assessment was published in the *Federal Register* on July 10, 2008, and was open for public comment until August 25, 2008. EPA is currently reviewing public and external peer review comments and plans to release a final report in 2009. To access the draft of the report, see <<http://cfpub.epa.gov/ncea/cfm/recordisplay.cfm?deid=181744>>.

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.

higher in urban and suburban areas where there are concentrated local sources of NO<sub>x</sub> and VOCs. However, ozone levels can be elevated in some rural areas with few local emission sources due to transport of ozone and ozone precursors.

### Ozone Impacts on Human Health and Ecosystems

Exposure to ozone has been linked to a variety of health effects, the severity of which depends on concentration, length of exposure, and breathing rate. At levels found in many urban areas, ozone can aggravate respiratory diseases such as asthma, emphysema, and bronchitis, and can increase susceptibility to respiratory infections. These health impacts result in increased medication use and emergency department visits. When developing the more stringent 8-hour ozone standards in 2008, EPA evaluated hundreds of new scientific studies and found increasingly convincing evidence of health impacts, including: school absenteeism, breathing difficulty, respiratory symptoms, increased medication use, and doctor visits for people with asthma. More serious effects include emergency department visits, hospital admissions, and premature mortality. At-risk groups include people with asthma or other lung diseases, older adults, and children and adults who are active outdoors.<sup>2</sup>

Scientific evidence also continues to show that repeated exposure to ozone damages sensitive vegetation, including some tree, crop, and native plant species. Such effects can include reduced growth and productivity, damaged foliage, and increased susceptibility to disease, insect pests, and other stresses (e.g., harsh weather). Ozone-related damage can lead to ecosystem-level changes such as loss of diversity. Ozone damage can also reduce the aesthetic value of the landscape in city parks, national parks, forests, and recreation areas.

For more information on the health and environmental effects of ground-level ozone, visit [www.epa.gov/ozonepollution](http://www.epa.gov/ozonepollution).

### The New Ozone Standard

On March 12, 2008, EPA strengthened its NAAQS for ground-level ozone, the primary component of smog. The new standard will improve public health and help protect sensitive trees and plants.

EPA revised both the primary ozone standard, designed to protect public health, and the secondary standard, designed to protect public welfare, from 0.08 to 0.075 ppm. In addition, EPA changed its Air Quality Index (AQI) to reflect the new primary standard. The AQI is a color-coded tool or health index that can be used by state and local authorities to inform the public about daily air pollution levels in their communities.



## Overview of Control Programs for NO<sub>x</sub> and VOCs

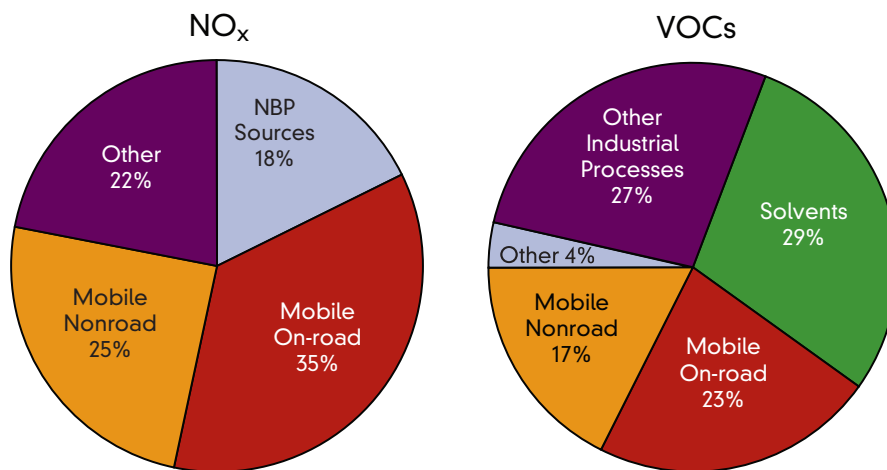
The majority of NO<sub>x</sub> and VOC emissions in the eastern United States come from mobile sources, industrial processes, and the electric power industry. In 2007, mobile on-road and nonroad sources (60 percent of emissions) and EGUs and large industrial sources (18 percent of emissions) were responsible for the majority of ozone season NO<sub>x</sub> emissions in the East (see Figure 1).

VOC emissions come from a variety of sources, both biogenic (natural) and anthropogenic (man-made). While a significant portion of total VOC emissions come from biogenic sources (such as trees), especially during the ozone season, the

figures shown in this report only assess anthropogenic VOC emissions. Figure 1 shows that mobile sources accounted for 40 percent of the anthropogenic VOC emissions in the 2007 ozone season. For more information on biogenic VOC emissions, visit <[www.epa.gov/appcdwww/apb/biogenic.htm](http://www.epa.gov/appcdwww/apb/biogenic.htm)>.

While this report focuses on the NBP, which reduces emissions from EGUs and large industrial boilers and turbines, EPA has developed more than a dozen programs to reduce NO<sub>x</sub> and VOCs since 1990. Through these programs, improvements in ozone air quality are achieved by reducing emissions of NO<sub>x</sub> and VOCs from major mobile, industrial, and power sector sources. These programs complement state and local efforts to improve ozone air quality and meet national standards. Together,

Figure 1: Manmade Sources of NO<sub>x</sub> and VOC Ozone Season Emissions in the Eastern United States in 2007



Notes:

- Emissions are from Minnesota, Iowa, Missouri, Arkansas, Louisiana, and states east.
- “NBP Sources” refer to EGUs and large industrial sources subject to the emission reduction requirements of the NBP.
- The “Other” category for NO<sub>x</sub> emissions includes some large (≥ 250 millions of British thermal units/hour [mmBtu/hr]) industrial sources outside the NBP, small industrial sources, and other smaller sources such as residential fuel combustion. The “Other” category for VOC emissions includes miscellaneous sources.
- The emission data presented in this figure are measured or estimated values from EPA’s National Emissions Inventory (NEI) (see <<http://www.epa.gov/ttn/chief/trends>>). The NEI incorporates power industry data measured by continuous emission monitoring systems (CEMS). Emissions for other sources were estimated by interpolating between the 2005 Version 1 NEI data and a projected 2009 emission inventory developed to support the ozone NAAQS (see <http://www.epa.gov/air/criteria.html>>).

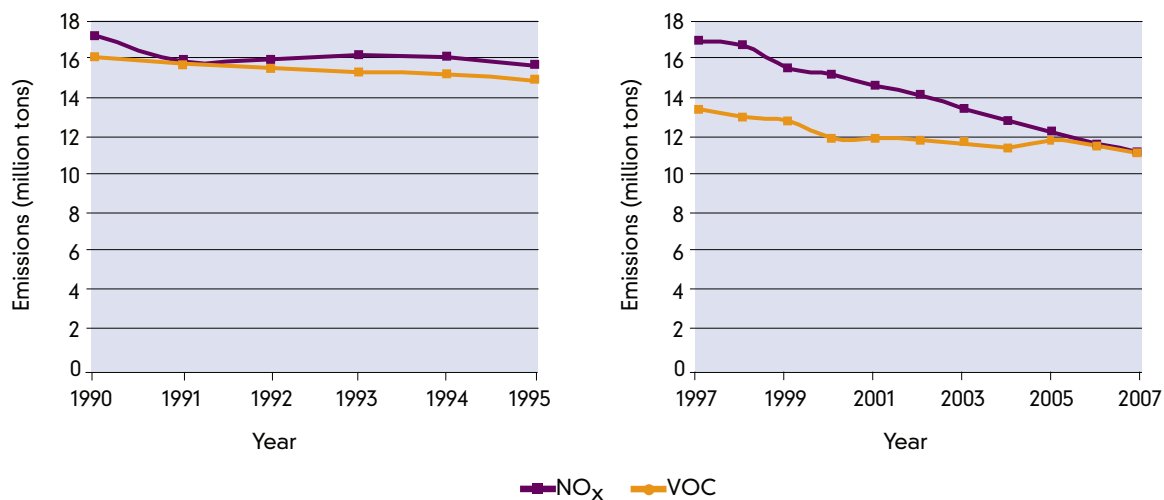
Source: EPA, 2008.

these programs have achieved significant emission reductions across the eastern United States. Figure 2 shows that total NO<sub>x</sub> and VOC annual emissions have decreased since 1990, with the largest reductions occurring since 1997.

Moreover, several current and recently implemented air quality programs will further reduce NO<sub>x</sub> and VOC emissions in the coming years (see Table 1). The Clean Air Nonroad Diesel Rule, the 2007 Heavy Duty Highway Rule (also known as the Clean Air Diesel Trucks and Buses Rule), and the recently finalized Locomotive and Marine Diesel Standards are part of a suite of national programs designed to reduce pollution from diesel engines. These rules will reduce NO<sub>x</sub> emissions and particle pollution by more than 90 percent from affected diesel engines by 2030. Reductions in VOCs will occur as part of these programs and, more dramatically, through

the Control of Hazardous Air Pollutants from Mobile Sources (MSAT 2) program, which began in 2007. EPA's Acid Rain Program (ARP) and the NBP (administered as part of EPA's NO<sub>x</sub> SIP Call) will continue to achieve reductions from the power sector. Beginning in 2009, ozone season and annual NO<sub>x</sub> reductions could be required as part of CAIR.\* Finally, additional reductions of NO<sub>x</sub> and VOCs will also result from the industrial sector. Industrial source hazardous air pollutants are regulated through the Maximum Achievable Control Technology (MACT) standards, while criteria pollutants are controlled by the New Source Performance Standards (NSPS) and Emission Guidelines. Regulations on the contents and use of consumer and commercial products will also result in additional reductions of both VOCs and NO<sub>x</sub>.

Figure 2: Annual NO<sub>x</sub> and VOC Emission Trends in the Eastern United States, 1990–2007



Notes:

- 1996 is not represented in the graphs because there was a change in the method used to collect and estimate emissions.
- Emissions are from Minnesota, Iowa, Missouri, Arkansas, Louisiana, and states east.
- The emission data presented in this figure are measured or estimated values from EPA's NEI. From 1990 to 2005, the 2005 Version 1 of the NEI was used. Starting in 1997, the NEI incorporated power industry data measured by CEMS. For this analysis, EPA used CEMS data for the power industry for 2006 and 2007. Emissions for other sources for 2006 and 2007 were estimated by interpolating between the 2005 Version 1 NEI data and a projected 2009 emission inventory developed to support the ozone NAAQS.

Source: EPA, 2008.

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.

Table 1: Major EPA NO<sub>x</sub> and VOC Emission Control Programs

	Regulation	Compliance Date	Affected Sources	Projected/Actual Emission Reductions	Online Resources
Power Sector Sources	Title IV ARP NO <sub>x</sub>	Phase 1: 1996 Phase 2: 2000	Certain coal-fired EGUs (boilers only).	Actual 2007 NO <sub>x</sub> emissions were 4.8 million tons below projected 2000 NO <sub>x</sub> emission levels for all affected units had the ARP not been implemented.	<a href="http://www.epa.gov/airmarkets/progsregs/arp/nnox.html">http://www.epa.gov/airmarkets/progsregs/arp/nnox.html</a>
	NO <sub>x</sub> SIP Call/NBP	2003, 2004, or 2007, depending on the state	EGUs, large industrial boilers, and turbines in 20 eastern states and the District of Columbia.	750,000 tons of NO <sub>x</sub> reduced during the ozone season in 2007.	<a href="http://www.epa.gov/airmarkets/progsregs/nnox/sip.html">http://www.epa.gov/airmarkets/progsregs/nnox/sip.html</a>
	CAIR NO <sub>x</sub> Annual and Ozone Season Trading Programs*	2009	Fossil-fuel fired EGUs in 28 eastern states and the District of Columbia.	2 million tons of NO <sub>x</sub> reduced per year by 2015.	<a href="http://www.epa.gov/airmarkets/progsregs/cair/index.html">http://www.epa.gov/airmarkets/progsregs/cair/index.html</a>
Mobile Sources	Tier 2 Vehicle and Gasoline Sulfur Program	2004: Gasoline sulfur content 2004–2009: Phase-in of new vehicle standards by model year (MY)	Cars, light-duty trucks, and certain size SUVs sold outside California; gasoline sold nationwide.	2.8 million tons of NO <sub>x</sub> reduced per year by 2030. Also reduces VOCs.	<a href="http://www.epa.gov/otaq/regs/ld-hwy/tier-2/index.htm">http://www.epa.gov/otaq/regs/ld-hwy/tier-2/index.htm</a>
	Clean Air Diesel Trucks and Buses (also known as the Heavy-Duty Highway Diesel) Program	2006: Diesel sulfur content 2007 (MY): Begin phase-in of new engine standards	Diesel fuel sold nationwide; heavy-duty highway diesel engines (trucks, buses, etc.) nationwide.	2.6 million tons of NO <sub>x</sub> reduced per year by 2030. Also reduces VOCs.	<a href="http://www.epa.gov/otaq/highway-diesel/index.htm">http://www.epa.gov/otaq/highway-diesel/index.htm</a>
	Clean Air Nonroad Diesel Program	2007: Diesel sulfur content 2008 (MY): Begin phase-in of new engine standards	Nonroad diesel fuel sold nationwide; diesel engines nationwide used in most construction, agricultural, industrial, and airport equipment.	738,000 tons of NO <sub>x</sub> reduced per year by 2030. Also reduces VOCs.	<a href="http://www.epa.gov/nonroad-diesel/2004fr.htm">http://www.epa.gov/nonroad-diesel/2004fr.htm</a>
	Locomotive and Marine Vessel Compression-Engine Standards	2008: Remanufacture of existing engines (locomotive and marine) 2009 (MY): Begin phase-in of new Tier 3 engine standards 2014 (marine) and 2015 (locomotive) (MY): Tier 4 after-treatment standards begin	Locomotives and marine vessel engines nationwide.	800,000 tons of NO <sub>x</sub> reduced per year by 2030. Also reduces VOCs.	<a href="http://www.epa.gov/otaq/locomotv.htm">http://www.epa.gov/otaq/locomotv.htm</a> <a href="http://www.epa.gov/otaq/marine.htm">http://www.epa.gov/otaq/marine.htm</a>
	Control of Hazardous Air Pollution from Mobile Sources Program (MSAT 2)	2009: VOC controls on gas cans 2010 (MY): Begin phase-in of new engine standards 2011: Gasoline benzene content	Gas cans nationwide; gasoline-fueled passenger vehicles nationwide; gasoline sold nationwide.	More than 1 million tons of VOCs reduced per year by 2030.	<a href="http://www.epa.gov/nonroad-diesel/2004fr.htm">http://www.epa.gov/nonroad-diesel/2004fr.htm</a>
Industrial Sources	Maximum Achievable Control Technology (MACT) Standards	2007	Nationwide industrial sources of organic hazardous air pollutant emissions.	2.4 million tons of VOCs reduced per year and 168,000 tons of NO <sub>x</sub> reduced per year from major stationary engines.	<a href="http://www.epa.gov/ttn/atw">http://www.epa.gov/ttn/atw</a>
	New Source Performance Standards (NSPS) Program	2007	Refineries, boilers and turbines, stationary internal combustion engines.	125,000 tons of NO <sub>x</sub> reduced per year by 2015.	<a href="http://www.epa.gov/ttn/atw">http://www.epa.gov/ttn/atw</a>
	NSPS and Emission Guidelines for Waste Combustion	2005	Certain incinerators and municipal waste combustors nationwide.	16,283 tons of NO <sub>x</sub> reduced per year in 2007.	<a href="http://www.epa.gov/ttn/atw/129/hmiwi/rihmiwi.html">http://www.epa.gov/ttn/atw/129/hmiwi/rihmiwi.html</a>
	Consumer and Commercial Product Regulations	2009	Printing, coating, and cleaning operations; consumer products; coatings; and portable fuel containers.	445,000 tons of VOCs reduced per year by 2020.	<a href="http://www.epa.gov/ttn/atw/183e/gen/183epg.html">http://www.epa.gov/ttn/atw/183e/gen/183epg.html</a>

Notes:

- Baselines for reductions are different for each program.
- This chart is not a comprehensive list of all EPA NO<sub>x</sub> and VOC reduction strategies, but highlights the current major programs intended to achieve large NO<sub>x</sub> and VOC emission reductions.

Source: EPA, 2008.

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.

## Snapshot: National and Regional Power Sector NO<sub>x</sub> Programs

**Acid Rain Program (ARP):** Congress established the ARP through Title IV of the Clean Air Act Amendments of 1990. This annual program reduces sulfur dioxide (SO<sub>2</sub>) from EGUs through a cap and trade program across the lower 48 states. The ARP also reduces NO<sub>x</sub> emissions from some of these units, but, unlike the SO<sub>2</sub> portion of the ARP, there is no cap on NO<sub>x</sub> emissions or allowance trading. Instead, the ARP NO<sub>x</sub> provisions apply boiler-specific NO<sub>x</sub> emission limits in pounds per million British thermal units (lb/mmBtu) on certain coal-fired boilers. Companies can use “emission averaging” plans across their units to comply flexibly with rules. Beginning in 1996, NO<sub>x</sub> limits were applied on some of the largest boilers, while a second phase to reduce NO<sub>x</sub> emissions from additional coal-fired generating units began in 2000. For more information, visit <[www.epa.gov/airmarkets/progsregs/arp/index.html](http://www.epa.gov/airmarkets/progsregs/arp/index.html)>.

**Ozone Transport Commission (OTC) NO<sub>x</sub> Reduction Programs:** The OTC was established under the 1990 Clean Air Act Amendments. States in the Northeast and Mid-Atlantic collaborated to help reduce summertime ground-level ozone in the region by achieving ozone season NO<sub>x</sub> reductions in several phases. In 1995, Phase I required sources to reduce their annual NO<sub>x</sub> emission rates to meet Reasonably Available Control Technology (RACT) requirements. In Phase II (1999–2002), states achieved reductions in NO<sub>x</sub> from fossil fuel-fired EGUs and large industrial boilers and turbines through an ozone season cap and trade program known as the OTC NO<sub>x</sub> Budget Program. The third phase of the OTC NO<sub>x</sub> Budget Program was slated to begin on May 1, 2003, but was replaced by EPA’s NO<sub>x</sub> SIP Call. For more information on the OTC NO<sub>x</sub> Budget Program, visit <[www.epa.gov/airmarkets/progsregs/nox/otc.html](http://www.epa.gov/airmarkets/progsregs/nox/otc.html)>. For more information on the OTC, visit <[www.otcair.org](http://www.otcair.org)>.

**NO<sub>x</sub> State Implementation Plan (SIP) Call:** In 1995, EPA and the Environmental Council of the States formed the Ozone Transport Assessment Group to begin addressing the problem of ozone transport across the entire eastern United States. Based on the group’s findings and other technical analyses, EPA issued a regulation in 1998 to reduce the regional transport of ground-level ozone. This

rule, commonly called the NO<sub>x</sub> SIP Call, requires states to reduce ozone season NO<sub>x</sub> emissions that contribute to ozone nonattainment in other states. The NO<sub>x</sub> SIP Call does not mandate which sources must reduce emissions; instead, it requires states to meet emission budgets and gives them flexibility to develop control strategies to meet those budgets.

**NO<sub>x</sub> Budget Trading Program (NBP):** Under the NO<sub>x</sub> SIP Call, EPA developed the NBP to allow states to meet their emission budgets in a cost-effective manner through participation in a region-wide cap and trade program for EGUs and large industrial boilers and turbines. As of the 2007 ozone season, all 20 affected states and the District of Columbia chose to meet most of their NO<sub>x</sub> SIP Call requirements through participation in the NBP. While EPA administers the trading program, states share responsibility with EPA by allocating allowances, inspecting and auditing sources, and enforcing the program. For more information on the NBP, visit <[www.epa.gov/airmarkets/progsregs/nox/sip.html](http://www.epa.gov/airmarkets/progsregs/nox/sip.html)>.

**Clean Air Interstate Rule (CAIR):** On March 10, 2005, EPA promulgated CAIR, a rule that would achieve the largest reduction in air pollution in more than a decade. In addition to helping states address ozone nonattainment, CAIR would assist states in attaining the particulate matter 2.5 (PM<sub>2.5</sub>) NAAQS by reducing transported precursors, SO<sub>2</sub> and NO<sub>x</sub>. CAIR would accomplish this by creating three separate trading programs: an annual NO<sub>x</sub> program, an ozone season NO<sub>x</sub> program, and an annual SO<sub>2</sub> program. Each of these programs would use a two-phase approach, with declining emission caps based on cost-effective controls on power plants. Similar to the NO<sub>x</sub> SIP Call, CAIR would give states the flexibility to reduce emissions using a strategy that best suits their circumstances and would provide an EPA-administered, regional cap and trade program as one option. On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition. For more information on CAIR, visit <[www.epa.gov/airmarkets/progsregs/cair/index.html](http://www.epa.gov/airmarkets/progsregs/cair/index.html)>.





In 2007, NBP sources emitted 506,312 tons of NO<sub>x</sub>, **reducing ozone season emissions by 60 percent** from 2000.



# SECTION 2

## The NO<sub>x</sub> Budget Trading Program: Market-Based Emission Reductions

Over the past five ozone seasons, the NO<sub>x</sub> SIP Call has achieved significant NO<sub>x</sub> emission reductions, contributing to improvements in regional air quality across the Midwest, Northeast, and Mid-Atlantic. The NBP has been the primary mechanism for achieving these reductions.

This section first provides a brief overview of the affected states, affected units, and key attributes of the NBP. It then highlights how NBP sources have reduced ozone season NO<sub>x</sub> emissions since 2003, using two baseline years for measuring progress:

- 1990: This baseline represents emission levels before the implementation of the 1990 Clean Air Act Amendments.
- 2000: This baseline represents emission levels after the implementation of NO<sub>x</sub> regulatory programs under the 1990 Clean Air Act Amendments but before implementation of the NBP.

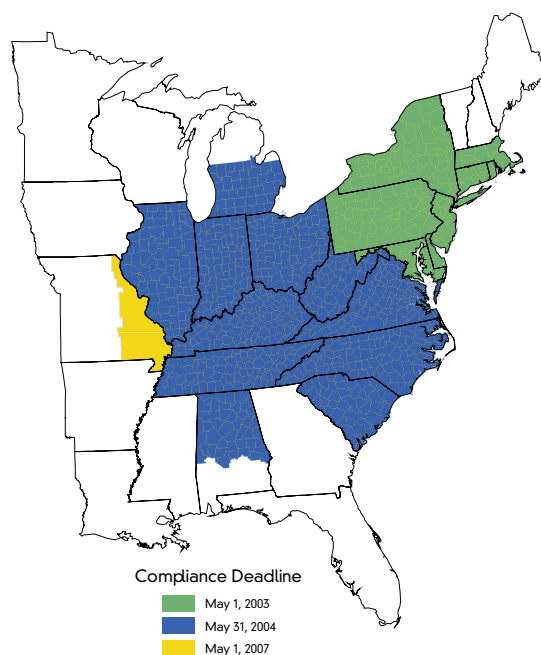
### Overview of the NBP

The NBP is a market-based cap and trade program created to reduce the regional transport of NO<sub>x</sub> emissions from power plants and other large combustion sources that contribute to ozone nonattainment in the eastern United States. The program is a central component of the NO<sub>x</sub> SIP Call, promulgated in 1998. All 20 states covered by the NO<sub>x</sub> SIP Call are in the NBP.

### Affected States and Compliance Dates

Compliance with the NO<sub>x</sub> SIP Call was scheduled to begin on May 1, 2003, for the full ozone season. However, litigation delayed implementation

Figure 3: NO<sub>x</sub> SIP Call Program Implementation



Source: EPA, 2008.

until May 31, 2004, for 11 states. The states previously in the OTC NO<sub>x</sub> Budget Program adopted the original compliance date of May 1, 2003, in transitioning to the NO<sub>x</sub> SIP Call (see Figure 3). These eight states include Connecticut, Delaware, Maryland, Massachusetts, New Jersey, New York, Pennsylvania, and Rhode Island, as well as the District of Columbia.

The 11 states not previously in the OTC NO<sub>x</sub> Budget Program include Alabama, Illinois, Indiana, Kentucky, Michigan, North Carolina, Ohio, South Carolina, Tennessee, Virginia, and West Virginia. These states began compliance on May

31, 2004, one month into the normal ozone season. Missouri's compliance with the program began on May 1, 2007.

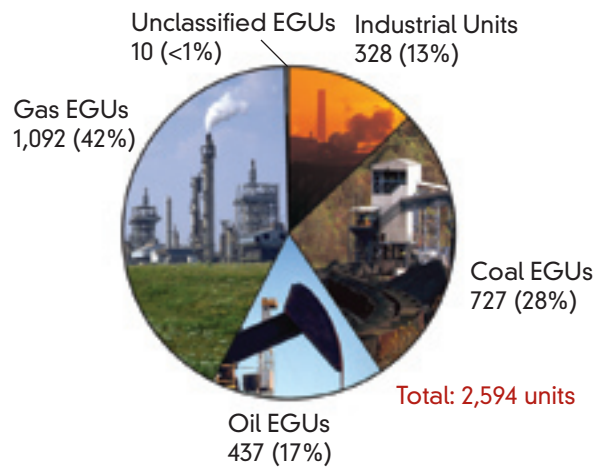
Only portions of Alabama, Michigan, and Missouri are affected by the program. In addition, Georgia was originally slated to begin compliance with the NBP in 2007 along with Missouri. However, on April 16, 2008, EPA finalized a rule to remove the requirements of the NO<sub>x</sub> SIP Call for Georgia in response to a petition. Georgia did not participate in the NBP in 2007 and is no longer required to comply with the NBP in future years.

### Affected Units

There were 2,594 affected units under the NBP in 2007, including some units that may not have operated or had emissions during the 2007 ozone season. For example, some units provide electricity only as needed on peak demand days, and may not operate every year.

Most of the units are EGUs, which are large boilers, turbines, and combined cycle units used to generate electricity for sale. One or more units make up a facility. As shown in Figure 4, EGUs constitute 87 percent of all regulated NBP units. The program also applies to large industrial units that produce electricity or steam primarily for internal use. Examples of these units are boilers and turbines at heavy manufacturing facilities, such as paper mills, petroleum refineries, and iron and steel production facilities. These units also include steam plants at institutional settings, such as large universities or hospitals. Some states include other types of units, such as petroleum refinery process heaters and cement kilns.

Figure 4: Number of Units in the NBP by Type in 2007



**Notes:**

- The 10 “unclassified” units represent units in long-term shutdown or other non-operating status that remain identified as affected units under the NBP and that had not retired prior to the 2007 ozone season.
- Percentages add up to more than 100 due to rounding.

Source: EPA, 2008.

States can choose to allow sources that are not affected by the NBP to opt in to the trading program. Opt-ins are limited to fossil fuel-fired combustion devices that vent all emissions through a stack and are able to meet EPA’s stringent Part 75 emission monitoring requirements. Potential opt-in sources apply for a state NBP opt-in permit. If approved, these sources are issued opt-in allowances, which are in addition to the state’s base budget. In 2007, there were three states with five total opt-in units under the program.

## Cap and Trade: Delivering Environmental Results

Cap and trade programs set a cap on overall regional emissions and allocate each affected source allowances authorizing a certain number of tons of emissions. This approach provides individual sources with flexibility in how they comply with emission limits. Sources may sell or bank (save) excess allowances if they reduce emissions and have more than they need, or purchase allowances if they are unable to keep emissions below their allocated budget. As a group, the participat-

ing sources cannot exceed the cap. The cap level is intended to protect public health and the environment and to sustain that protection into the future, regardless of growth in the affected sector. The cap also lends stability and predictability to the allowance trading market. Cap and trade programs have proven highly effective in reducing emissions from multiple sources, while achieving emission reductions, meeting environmental goals, and improving human health.

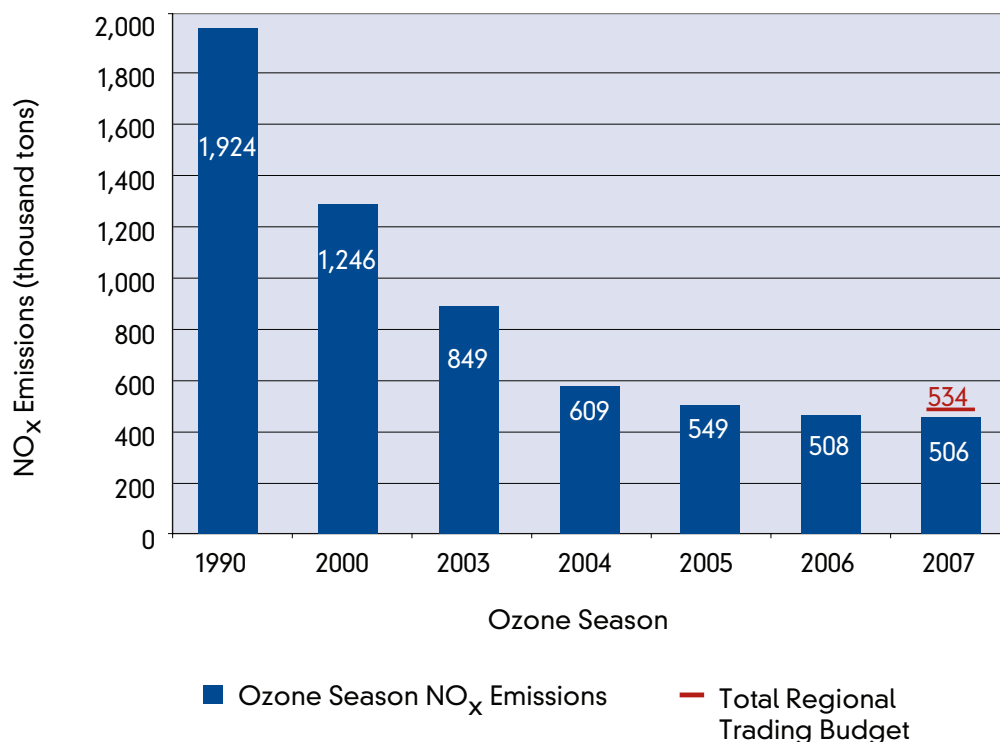
## Ozone Season NO<sub>x</sub> Reductions under the NBP

In 2007, NBP sources emitted approximately 506,000 tons of NO<sub>x</sub>, an overall decrease of about 1,300 tons from 2006. Emissions in 2007 were about 60 percent below 2000 levels, and 74 percent below 1990 levels. Figure 5 shows the total ozone season NO<sub>x</sub> emissions for all affected sources in the NBP region in 2007 compared to

1990, 2000, 2003, 2004, 2005, and 2006. It also presents the allowances allocated for 2007, which comprise the cap (the sum of the state budgets) for the program, including opt-in allowances.\*

Many of the NO<sub>x</sub> reductions since 1990 are a result of programs implemented under the Clean Air Act, such as the Acid Rain NO<sub>x</sub> reduction program and other state, local, and federal programs. The significant decrease in NO<sub>x</sub> emissions

Figure 5: Ozone Season NO<sub>x</sub> Emissions from All NBP Sources



Notes:

- The emissions in all years represent full ozone season emissions for all states that participated in the program through 2007, including 2003 and May 2004 emissions from sources in non-OTC states that did not control emissions during those periods.
- Although Missouri did not participate in the NBP until 2007, its emissions are included for all years on this graph.
- Emissions for prior years reflect emission resubmissions as of July 1, 2008, and may change compared to prior progress reports.

Source: EPA, 2008.

\* All data in this section include ozone season emissions prior to the start date of the NBP for some states. For example, this section includes the 2003 data for units in non-OTC states and the 2003–2006 data for affected units in Missouri, even though those sources were not subject to the NBP emission reduction requirements in those periods. All data for 2003–2007 in this section were gathered from EPA’s data systems as of July 1, 2008.

## Key Components of the NBP

The NBP is an ozone season (May 1 to September 30) cap and trade program for EGUs and large industrial combustion sources, primarily boilers and turbines. The program has several important features:

- The region-wide cap is the sum of the state emission budgets EPA established under the NO<sub>x</sub> SIP Call to help states meet their air quality goals to protect human health and the environment.
- Authorizations to emit, known as allowances, are allocated to affected sources based on state trading budgets. The NO<sub>x</sub> allowance market enables sources to trade (buy and sell) allowances throughout the year.
- Sources can choose among several options to reduce NO<sub>x</sub> emissions. Options include adding emission control technologies, replacing existing controls with more advanced technologies, optimizing existing controls, or switching fuels.
- At the end of every ozone season, each source must surrender sufficient allowances to cover its ozone season NO<sub>x</sub> emissions (each allowance represents one ton of NO<sub>x</sub> emissions). This process is called annual reconciliation.
- If a source does not have enough allowances to cover its emissions, EPA automatically deducts allowances from the following year's allocation at a 3:1 ratio.
- If a source has excess allowances because it reduced emissions beyond required levels, it can sell the unused allowances or bank (save) them for use in a future ozone season.
- To accurately monitor and report emissions, sources use continuous emission monitoring systems (CEMS) or other approved monitoring methods under EPA's stringent monitoring requirements (40 CFR, Part 75).

For more information on the NBP, see <[www.epa.gov/airmarkets/progsregs/nox/sip.html](http://www.epa.gov/airmarkets/progsregs/nox/sip.html)>.

after 2000 largely reflects reductions achieved by the OTC NO<sub>x</sub> Budget Program, which operated between 1999 and 2002, and the NBP, which began in 2003. The large drop in emissions between 2003 and 2004 is a result of the entry of the non-OTC states into the NBP. The majority of states subject to the NO<sub>x</sub> SIP Call started to participate in the NBP on May 31, 2004.

Although Missouri did not participate in the NBP until 2007, its emissions are included for all years in Figure 5 to more effectively capture and express trends due to the program. Only the 2007 state trading budget is shown because the budgets from prior years do not include Missouri. See Figure 8 and Appendix C for more detailed information on state budgets and emissions subject to compliance.

Ozone season NO<sub>x</sub> emissions decreased substantially between 2003 and 2007, while heat input gradually increased over the same period. As shown in Table 2, increased utilization of coal and gas and a decrease in the use of oil led to an increase in heat input of 530 million mmBtu in 2003–2007. In 2007, the overall average NO<sub>x</sub> emission rate continued to decline under the program, indicating that other factors, such as fuel choice or added NO<sub>x</sub> controls, also contributed to the change in emissions.

As shown in Table 2, between 2006 and 2007, ozone season emissions decreased slightly for oil-fired units and were essentially unchanged for gas-fired and coal-fired units. Overall, emissions were nearly flat, decreasing by about 0.3 percent, while overall heat input increased by about 3 percent.

Table 2: Comparison of Ozone Season NO<sub>x</sub> Emissions, Heat Input, and NO<sub>x</sub> Emission Rates for All NBP Sources, 2003–2007

Units by Fuel Type	Ozone Season NO <sub>x</sub> Mass Emissions (thousand tons)					Ozone Season Heat Input (billion mmBtu)					Ozone Season NO <sub>x</sub> Emission Rate (lb/mmBtu)				
	2003	2004	2005	2006	2007	2003	2004	2005	2006	2007	2003	2004	2005	2006	2007
Coal	800 (94%)	564 (93%)	494 (90%)	475 (94%)	475 (94%)	4.91 (85%)	4.91 (84%)	5.10 (81%)	5.06 (83%)	5.15 (82%)	0.32	0.23	0.19	0.19	0.18
Oil	26 (3%)	25 (4%)	32 (6%)	14 (3%)	13 (2%)	0.27 (5%)	0.25 (4%)	0.31 (5%)	0.17 (3%)	0.17 (3%)	0.19	0.20	0.20	0.16	0.15
Gas	24 (3%)	20 (3%)	23 (4%)	19 (4%)	19 (4%)	0.59 (10%)	0.70 (12%)	0.85 (14%)	0.87 (14%)	0.99 (16%)	0.08	0.06	0.05	0.04	0.04
Total	849 (100%)	609 (100%)	549 (100%)	508 (100%)	506 (100%)	5.77 (100%)	5.86 (100%)	6.27 (100%)	6.10 (100%)	6.30 (100%)	0.29	0.21	0.18	0.17	0.16

Notes:

- Tons are rounded to the nearest 1,000, and the heat input values are rounded to the nearest 10 million mmBtus. Totals in final row may not equal the sum of individual rows due to rounding.
- The average emission rate is based on dividing total reported ozone season NO<sub>x</sub> emissions for each fuel category by the total ozone season heat input reported for that category, and then rounding the emission rate to the nearest 0.01 lb/mmBtu. The average emission rate expressed for the total is the heat input-weighted average for the three fuel categories.
- Fuel type, as shown here, is based on the monitoring plan primary fuel designation submitted to EPA; however, many units burn multiple fuels. Also, one primary wood-fired boiler is classified with the coal-fired units based on its secondary fuel.
- Data for all years represent full ozone season data, including 2003 and May 2004 data from sources in non-OTC states and 2003-2006 ozone season data in affected portions of Missouri that did not control emissions during those periods.

Source: EPA, 2008.

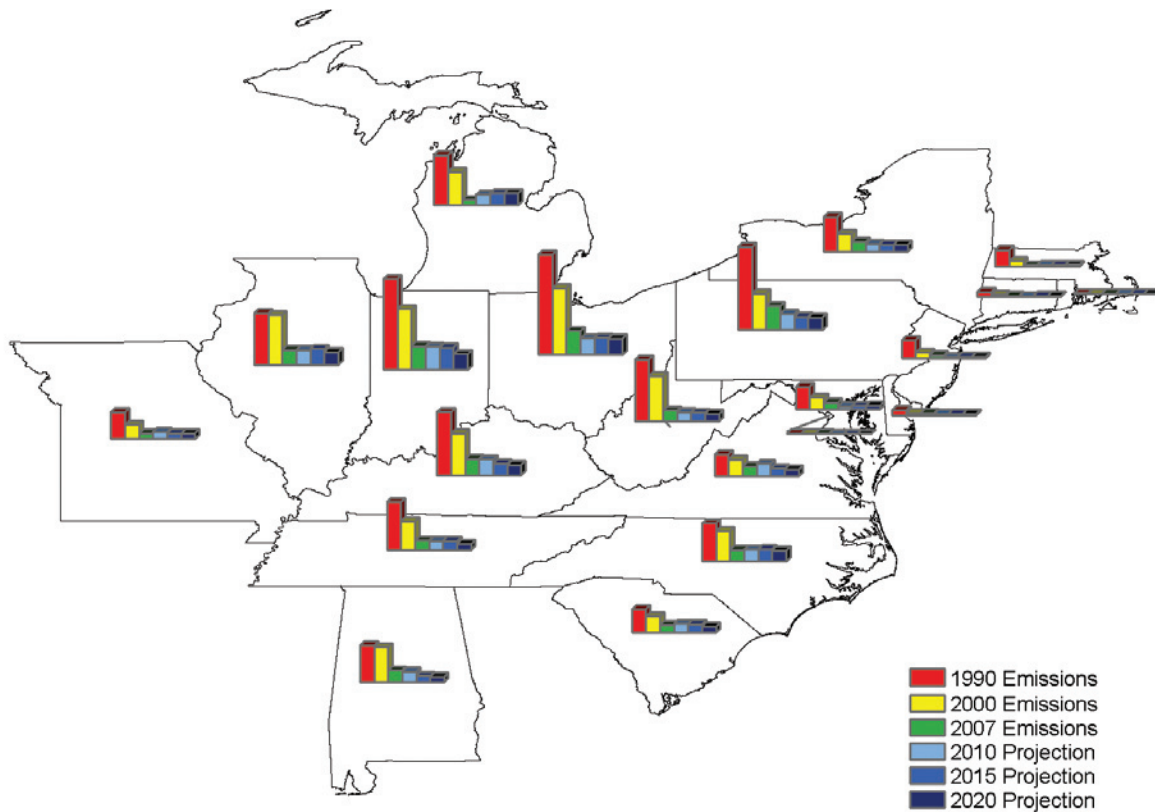


### State-by-State NO<sub>x</sub> Reductions

Ozone season NO<sub>x</sub> emissions have decreased from the baseline years in all states participating in the NBP. The CAIR NO<sub>x</sub> program,\* which could take effect in 2009, would bring a continued decline in emissions across the region through the year 2020 (as shown in Figure 6).

In the 2007 ozone season, the regional total of emissions from NBP sources was about 28,000 tons (5 percent) below the 2007 cap. Ten states and the District of Columbia had emissions below their allowance budgets. Sources within those states banked or sold a total of about 57,000 allowances that were not required for their 2007 compliance. Another 10 states exceeded their

Figure 6: State-level Ozone Season NO<sub>x</sub> Emissions from NBP to CAIR, 1990–2020



Scale: Largest bar equals 241,000 tons of NO<sub>x</sub> emissions in Ohio, 1990.

Note: Projected emissions in 2010, 2015, and 2020 represent estimated reductions due to the implementation of CAIR.\*

Source: EPA, 2008.

### What Is Heat Input?

Heat input, often expressed in mmBtu, is a measure of the energy content of fuel. It is standardized across fuel sources to allow comparisons among them. For example, a cubic foot of natural gas releases a different amount of energy than a gallon of oil when

burned. Heat input also offers an indication of energy demand. For example, high electricity consumption for air conditioning on a hot day will be reflected in high heat input of EGUs.

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.



2007 budgets by a total of about 29,000 allowances, indicating that some sources within those states covered a portion of their emissions with allowances banked from earlier years or purchased from the market. (See Table 3 for state emission totals and 2007 allowance budgets.)

In any given year, emission control programs experience variation in emissions from individual units due to a wide range of conditions, including weather, grid demand, transmission constraints, fuel costs, and compliance strategy. Ten states posted increases in emissions between the 2006 and 2007 ozone seasons. In Virginia, the increase is attributed

**Table 3: Ozone Season NO<sub>x</sub> Emissions (Tons) from NBP Sources, 1990–2007 and 2007 State Trading Budgets**

NBP State	1990 Emissions	2000 Emissions	2003 Emissions	2004 Emissions	2005 Emissions	2006 Emissions	2007 Emissions	2007 Budget
AL	89,758	84,560	50,895	40,564	33,632	27,812	28,744	25,497
CT	11,203	4,697	2,070	2,191	3,022	2,514	2,152	4,477
DC	576	134	72	35	279	115	76	233
DE	13,180	5,256	5,414	5,068	6,538	4,763	5,454	5,227
IL	124,006	119,460	48,917	40,976	37,843	36,343	35,639	35,557
IN	218,333	145,722	100,772	68,375	57,249	55,510	56,374	55,729
KY	153,179	101,601	63,057	40,394	36,730	37,461	40,210	36,109
MA	40,367	14,324	9,265	7,481	8,269	5,464	3,666	12,861
MD	54,375	28,954	19,257	19,944	20,989	18,480	16,521	15,466
MI	120,132	80,425	45,614	39,848	42,157	40,353	34,354	31,247
MO	64,272	34,058	29,407	16,190	18,809	15,917	12,961	19,089
NC	92,059	73,082	51,943	39,821	32,888	30,387	28,390	34,713
NJ	44,359	14,630	11,003	10,807	11,277	8,692	7,773	13,022
NY	84,485	43,583	34,815	34,157	36,633	26,339	24,728	41,397
OH	240,768	159,578	133,043	67,304	54,335	52,817	57,865	49,974
PA	199,137	87,329	51,530	52,140	51,125	52,806	57,615	50,843
RI	1,099	288	209	177	253	181	187	936
SC	56,153	39,674	34,624	25,377	18,193	18,376	18,418	19,678
TN	115,348	69,641	55,376	31,399	25,718	23,930	23,261	31,480
VA	51,866	40,043	32,766	25,448	22,309	20,491	22,957	21,195
WV	149,176	109,198	69,171	41,333	30,401	28,852	28,967	29,507
All NBP: w/o Missouri	1,859,559	1,222,179	819,813	592,839	529,840	491,686	493,351	515,148
All NBP: w/ Missouri	1,923,831	1,256,237	849,220	609,029	548,649	507,603	506,312	534,237

Note: Emissions for Alabama, Michigan, and Missouri are for units in the portion of the state that became subject to the NBP in 2004 (Alabama and Michigan) and 2007 (Missouri). The 2007 Budget values include base budget, compliance supplement pool (Missouri only), and opt-in allowances.

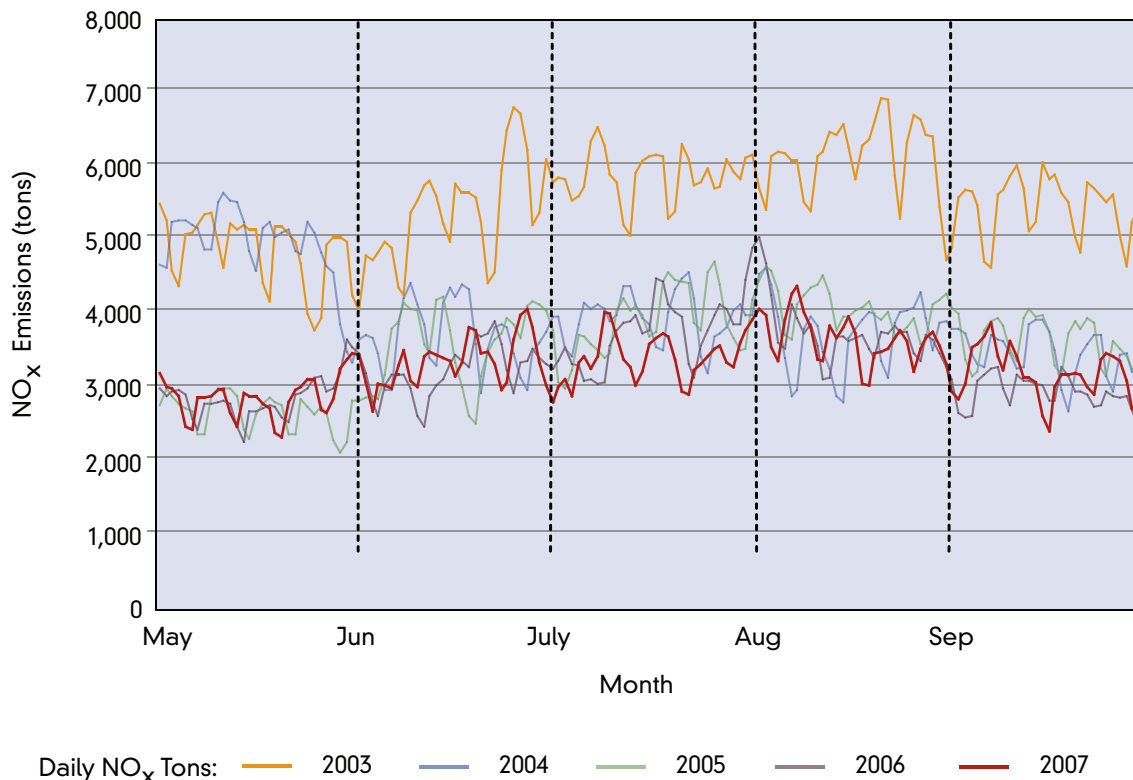
Source: EPA, 2008.

to an 11 percent rise in heat input. In Kentucky, heat input was level, but a unit with selective catalytic reduction (SCR) equipment that operated through the 2006 season underwent maintenance in 2007. The primary driver for most of the emission increases during the 2007 ozone season, however, was the low price of NO<sub>x</sub> allowances in the NBP market. When allowance prices fall, sources can be expected to optimize both combustion and control decisions accordingly. For example, in Pennsylvania the seasonal NO<sub>x</sub> emission rate for coal-fired units with SCRs rose 19 percent (from 0.079 lb/mmBtu in 2006 to 0.094 lb/mmBtu in 2007), indicating that sources in the state may have scaled back operation of SCR control technology to meet a new cost curve. It is important to note, however, that while some states exceeded their budget, total emissions were below the NBP cap, ensuring regional public health and environmental protection.

### High Electric Demand Days

NBP emission reduction requirements have led EGUs to install pollution control equipment to reduce seasonal NO<sub>x</sub> emissions. Since the inception of the NBP in 2003, overall emissions have decreased each year, although there would have been a slight increase in 2007 had Missouri not joined the program. Periods of hot weather and related high electricity demand often drive peak NO<sub>x</sub> emissions on a given calendar day. During the 2007 ozone season, emission levels on peak demand days were lower than those seen in previous years. For example, Figure 7 shows that in contrast to late July/early August 2006, late July 2005, and mid-July 2004, when NO<sub>x</sub> levels peaked for their respective years, the emission peak in early August 2007 was noticeably lower.

Figure 7: Comparison of Daily NO<sub>x</sub> Emission Levels in NBP States, 2003–2007



Note: This figure includes Missouri data for all years.

Source: EPA, 2008.

Further EPA analysis found that the average NO<sub>x</sub> emission rate for the 10 highest electric demand days (as measured by megawatt hours of generation) has consistently fallen every year from 0.277 lb/mmBtu in 2003 to 0.154 lb/mmBtu in 2007. This 44 percent drop has occurred despite increased demand in 2007 compared with 2003. High demand for electricity is heavily tied to meteorology and is driven primarily by the use of air conditioning on hot days.

High electric demand days often coincide with NAAQS exceedances. Because of continued non-

attainment in some portions of the NBP region, EPA, states, and others are investigating additional programs and policies that could provide further emission reductions from targeted sources on these days. With the promulgation of a new, tighter ozone NAAQS in March 2008, stakeholders will likely continue to focus on these types of targeted measures, such as demand-side strategies (energy efficiency, demand response, clean distributed energy sources, etc.), fuel switching, selective non-catalytic reduction (SNCR), water injection, and smarter trading.

### Smarter Trading

EPA has been working with regional organizations, eastern states, and academics for decades to investigate approaches to ozone attainment. One promising strategy, termed “smarter trading,” uses a time-variant approach to produce large ozone reductions, as well as lower costs on high ozone days.

With EPA support, the Massachusetts Institute of Technology’s (MIT) Center for Environmental and Energy Policy Research recently investigated the potential of using weather and atmospheric chemistry forecasts to vary the price of NO<sub>x</sub> allowances to more finely control the impacts of NO<sub>x</sub> emissions on ozone formation. The study examined how incorporating time-varying ozone forecasts into a tradable permit system could reduce compliance costs for the electric utility industry while also increase attainment of the ambient ozone standard. Final results show that smarter trading could dramatically reduce NO<sub>x</sub> emissions in high ozone areas on high

ozone days by providing incentives for greater NO<sub>x</sub> emission reductions during those days (or hours).<sup>3</sup>

A 2007 MIT study, done in collaboration with the University of Texas at Austin, used models to simulate air quality impacts on a single, five-day high ozone episode. An analysis of the Pennsylvania-New Jersey-Maryland region has shown there is sufficient flexibility in the electric power system to reduce NO<sub>x</sub> emissions up to 15 percent during peak hours and up to 30 percent in non-peak hours. Preliminary results from this unpublished study show that increasing NO<sub>x</sub> prices during the episode could reduce daily maximum 8-hour average ozone concentrations by 1–9 parts per billion (ppb) and daily maximum 1-hour average ozone concentrations by 2–14 ppb. During the hours of the increased NO<sub>x</sub> allowance prices, generation costs correspondingly increased 10–30 percent.

Through a wide range of pollution control strategies and an active NO<sub>x</sub> allowance market in 2007, sources achieved over 99 percent compliance with the NBP.



# Section 3

## Compliance and Market Activity

In 2007, more than 99 percent of affected units complied with the NBP. This section examines compliance under the NBP in 2007 and reviews allowance trading and pricing trends in this maturing market. In addition, this section reviews the monitoring and control methods employed by sources to meet program requirements.

### 2007 Compliance Results

Under the NBP, affected sources must hold sufficient allowances to cover their ozone season NO<sub>x</sub> emissions each year. Sources can maintain the allowances in compliance accounts (established for each unit) or in an overdraft account (established for each facility with more than one unit). Sources may buy or sell allowances throughout the year, but they have two months at the end of the ozone season to complete their transactions to ensure their emissions do not exceed allowances held. After the two-month period, EPA reconciles

emissions with allowance holdings to determine program compliance.

There were 2,594 units affected under the NBP in 2007. Of those units, only 12 units at 11 separate facilities did not hold sufficient allowances (206 tons total) to cover their emissions. These facilities will automatically surrender next season allowances on a 3:1 basis, or 618 allowances total. Most of these facilities had minor shortfalls in allowances: five facilities were one allowance short while five others were three to seven allowances short. One facility, however, was 179 allowances short of its total emissions for the year, making its allowance deduction penalty 537 allowances from its 2008 ozone season allocation.

Table 4 summarizes the allowance reconciliation process for 2007, and the textbox on page 26 provides details on how reported emissions for the 2007 ozone season translated into allowances deducted for those emissions.

**Table 4: NO<sub>x</sub> Allowance Reconciliation Summary for the NBP in 2007**

<b>Total Allowances Held for Reconciliation (2003–2007 Vintages)</b>	<b>745,389</b>
Allowances Held in Compliance or Overdraft Accounts	671,897
Allowances Held in Other Accounts*	73,492
<b>Allowances Deducted in 2007</b>	<b>508,805</b>
Allowances Deducted for Actual Emissions (see Emissions Summary textbox)	506,179
Additional Allowances Deducted under Progressive Flow Control	2,626
<b>Banked Allowances (Carried into 2008 Ozone Season)</b>	<b>236,584</b>
Allowances Held in Compliance or Overdraft Accounts	156,781
Allowances Held in Other Accounts**	79,803
<b>Penalty Allowances Deducted from 2008 Ozone Season Allocations</b>	<b>618</b>

\* “Other Accounts” refers to general accounts in the NO<sub>x</sub> Allowance Tracking System (NATS) that can be held by any source, individual, or other organization, as well as state accounts.

\*\* Total includes 6,311 unused new unit allowances returned to state holding accounts.

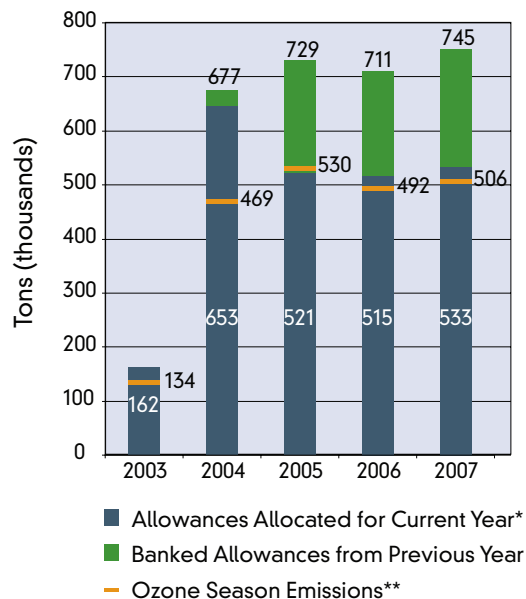
Source: EPA, 2008.

## Banking in 2007 and Flow Control in 2008

In general, under cap and trade programs, banking allows sources that decrease emissions below the number of allowances they are allocated to save the unused allowances for future use. Banking can produce environmental and health benefits earlier than required and provides an available pool of allowances that could be used to address unexpected events or smooth the transition into deeper emission reductions in future years. Figure 8 shows the allowances allocated each year, the allowances banked from the previous year, and the total ozone season emissions subject to allowance holding requirements for NBP sources in 2003–2007. Sources banked over 19,000 additional allowances by the end of the 2007 ozone season, making 236,584 allowances available for program compliance use in 2008 (see Table 4). The 2007 banked allowances are about 9 percent higher than the approximately 217,396 allowances banked by NBP sources at the end of the 2006 ozone season (see Figure 8). Additionally, 2007 marked the fourth of five compliance years in which sources achieved more reductions than required under the NBP and were able to bank allowances for use in future years.

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 overall (regional) budget for the next year. When this occurs, EPA calculates

Figure 8: NO<sub>x</sub> Allowance Allocations and the Allowance Bank, 2003–2007



\* Allowances allocated include those issued by states from base budget, compliance supplement pool, and opt-in allowances.

\*\* The 2003 total ozone season emissions do not include emissions from non-OTC states. The 2004 total represents emissions from non-OTC states during a shortened control period (May 31 to September 30) and OTC states during the full control period (May 1 to September 30). The 2005 and 2006 emissions represent the full ozone season for all participating states, except Missouri. The 2007 data is the first year in which the ozone season emissions represent all NBP states, including Missouri.

Source: EPA, 2008.

the flow control ratio by dividing 10 percent of the total regional NO<sub>x</sub> trading budget by the number of banked allowances (a larger bank will result

## 2007 Ozone Season Reconciliation Emission Summary

Reported ozone season NO<sub>x</sub> emissions by NBP sources totaled 506,312 tons in 2007. Because of variation in rounding conventions and changes due to resubmissions by sources, this number is slightly lower than the number of emissions used for reconciliation purposes and differs by 73 tons. In addition, 12 units did not have enough allowances to cover emissions, accounting for a difference of 206 tons. Therefore, the total number of allowances deducted for actual emissions differs slightly from the number of emissions shown elsewhere in this report.

Reported Emissions (tons):	506,312
Rounding and Report Resubmission Adjustments (tons):	+ 73
Emissions Not Covered by Current/Banked Allowances (tons):	- 206
Total Allowances Deducted for Emissions:	<b>506,179</b>

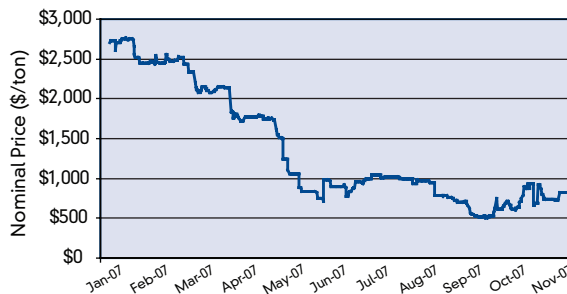
in a smaller flow control ratio). The resulting flow control ratio establishes the percentage of banked allowances that can be deducted from a source's account on a 1:1 ratio of one allowance per ton of emissions. The remaining banked allowances, if used, must be deducted at a 2:1 ratio of two allowances per one ton of emissions. In 2007, the flow control ratio was 0.24, and 2,626 additional allowances were deducted from the allowance bank under the flow control provisions. Flow control will be triggered again in 2008, at a slightly lower ratio of 0.22.

### NO<sub>x</sub> Allowance Trading in 2007

The 2007 NO<sub>x</sub> allowance market experienced an 8 percent price decline – beginning the year around \$900 per ton, fluctuating between \$500 and \$1,000 throughout the year, and settling to a year-end closing price of \$825 per ton (see Figure 9).

In 2007, NBP sources emitted about 506,000 tons of NO<sub>x</sub> during the ozone season, a very slight decrease (<1 percent) from 2006 levels. During the 2006 compliance period, emissions dropped 7 percent compared with 2005 emissions. This decrease in emissions, resulting to some extent from reduced energy demand, partially explains the decrease in allowance price during the 2006 time frame. Accordingly, the relatively flat level of NO<sub>x</sub> emissions between 2006 and 2007 slowed the downward trend of allowance prices. However, NBP sources still emitted almost 28,000 tons less than their total

**Figure 9: NO<sub>x</sub> Allowance Spot Price (Prompt Vintage), January 2006–December 2007**



Note: Prompt vintage is the vintage for the current compliance year. For example, 2006 vintage allowances are considered the prompt vintage until the true-up period closed at the end of November 2006. At that point, the prompt vintage became the 2007 vintage allowances.

Source: CantorCO2e's Market Price Indicator (MPI), 2008. See <[www.emissionstrading.com](http://www.emissionstrading.com)>.

budget, adding to the quantity of 2006 banked allowances, further contributing to low allowance prices. These below-cap emission levels were largely attributable to pending CAIR implementation as sources banked allowances and installed SCRs to prepare for tighter emission targets.

On July 11, 2008, however, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition. Al-

### Flow Control Will Apply in 2008

- 2008 Regional Base Budget: 527,501 allowances.
- Banked Allowances after 2007: 236,584 allowances.
- Flow Control Trigger:  $236,584 / 527,501 = 0.448$  (> than 10 percent), triggering flow control for 2008.

The 2008 flow control ratio = 0.22 (determined by dividing 10 percent of the regional trading base budget by the total number of banked allowances, or  $52,750 / 236,584$ ).

The flow control ratio applies to banked allowances in each source's compliance and overdraft allowance accounts at the time of compliance reconciliation.

For example: If a source holds 1,000 banked allowances at the end of 2008, it can use 220 of those allowances on a 1:1 basis and the remaining 780 allowances on a 2:1 basis. If the source used all 1,000 banked allowances for 2008 compliance, the banked allowances could cover only 610 tons of NO<sub>x</sub> emissions (i.e.,  $220 + 780 / 2$ ).

though more than 20 gigawatts of SCR retrofits have been announced to come online between 2008 and 2010, it is unclear how plant managers will act in response to the court decision vacating CAIR.

The increasing number of retrofits (both existing and planned), a growing allowance bank encouraged by the removal of progressive flow control under CAIR, an NBP region already at below-cap emission levels, and the expectation that annual CAIR emission requirements will drive over-compliance of seasonal requirements have all combined to keep downward pressure on NBP prices in 2007. The current allowance price is below the total expected control cost, and much more in line with the variable costs of operating an SCR.

### Transaction Types and Volumes

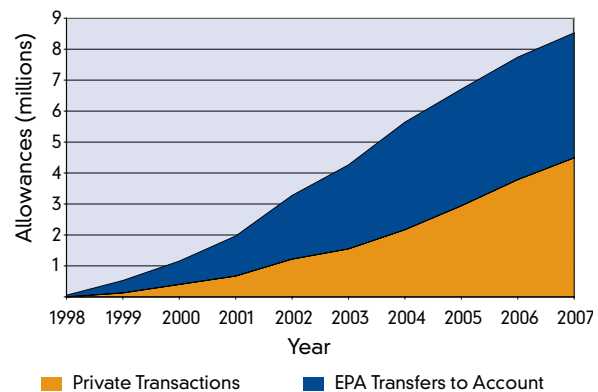
NO<sub>x</sub> allowance transfer activity includes two types of transfers: EPA transfers to accounts and private transactions. EPA transfers to accounts include the initial allocation of allowances by states or EPA, as well as transfers into accounts related to special set-asides. This category does not include transfers due to allowance retirements. Private transactions include all transfers initiated by authorized account representatives for any compliance or general account purposes.

As shown in Figure 10, trends in transfers of allowances by private entities through 2007 continue to suggest a strong market based on a look at overall NO<sub>x</sub> allowance transfer activity.

However, to help better understand the trends in market performance, EPA classifies private transfers of allowance transactions into two categories for further analysis:

- Transfers between separate and distinct economic entities, which may include companies with contractual relationships such as power purchase agreements, but excludes parent-subsidiary types of relationships. These transfers are categorized broadly as “economically significant trades.”

Figure 10: Cumulative NO<sub>x</sub> Allowances Transferred, 1998–2007



Note: Graph combines transfer activity starting with the OTC NO<sub>x</sub> Budget Program, which merged into the larger NBP that resulted from EPA’s NO<sub>x</sub> SIP Call.

Source: EPA, 2008.

- Transfers within a company or between related entities (e.g., holding company transfers between a unit compliance account and any account held by a company with an ownership interest in the unit).

While all transactions represent sources taking advantage of cost-saving opportunities, EPA believes one of the best indicators of the strength of the market is to follow trends in the transfers between economically distinct parties as these transactions represent an actual exchange of assets between unaffiliated participants.

In 2007, economically significant trades represented about 35 percent of the total private trades (up from 28 percent in 2006). There were approximately 247,000 allowances involved in economically significant trades in 2007, an increase in both volume and percentage base from 2006 (see Figure 11). The increase in the percentage of economically significant trades reflects an increasingly liquid and active ozone season allowance market, likely attributable to the growing bank. As SCR installation ramps up in preparation for CAIR\* requirements,

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.



more utilities find themselves at or below current cap levels, thus reducing the need for allowance shifting among related parties.

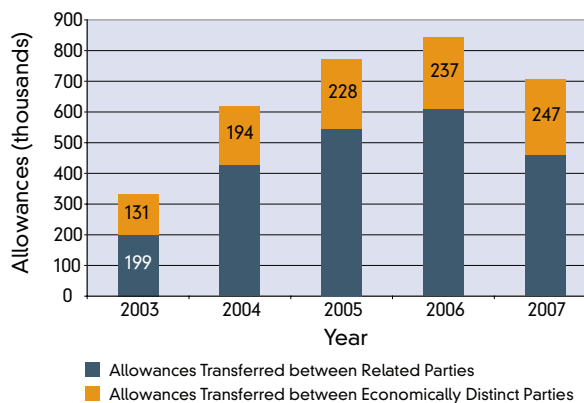
Because the NBP also includes industrial sources, EPA tracks activity from this sector as well. In 2007, industrial sources accounted for about 7.5 percent of the economically significant trade volume, up slightly from 2006 levels. This level of activity is generally proportional to the industrial units' regional emission contribution of slightly less than 7 percent. In 2007, as in 2006, industrial sources transferred far more allowances to others than they received. Most of these trades were between industrial sources and electric generating companies or brokers, with very few trades involving an industrial source as both buyer and seller.

### Role of Brokers and Their Fees

Brokers play an important role in the NO<sub>x</sub> allowance market. Primarily, they facilitate and conduct trades between willing buyers and sellers, undertaking the direct costs of identifying trading partners and transacting sales at a price acceptable to both parties. For firms lacking sufficient credit, a broker serves as a trusted third party and may even administer escrow accounts for transactions. Also, brokers occasionally provide market analysis for their clients, sometimes without an additional fee. In all of these functions, brokers help the market operate efficiently and prevent duplication of effort and costs among market participants.

In the seasonal NO<sub>x</sub> allowance market, brokers' fees for services typically range from 10 to 15 dollars per allowance traded. This amounts to roughly one to two percent of the price of an allowance, a percentage consistent with costs in other fairly large, well-functioning markets. Competition among brokers provides incentive to maintain relationships with clients and keep fees low.

**Figure 11: Breakdown of Private NO<sub>x</sub> Allowance Transfers, 2003–2007**



Note: Because trades are not reported by market participants with respect to whether or not they are economically significant, EPA presents these data as a general estimate only.

Source: EPA, 2008.

### CEMS Results

Accurate and consistent emission monitoring is the foundation of a cap and trade system. EPA has developed detailed procedures (40 CFR Part 75) to ensure that sources monitor and report emissions with a high degree of precision, accuracy, reliability, and consistency. In addition, emission results and other facility and allowance data are publicly available on EPA's Data and Maps Web site at <<http://camddataandmaps.epa.gov/gdm>>.

Coal-fired units are required to use CEMS for NO<sub>x</sub> concentration and stack gas flow rate (and if needed, a diluent carbon dioxide or oxygen gas monitor and stack gas moisture measurement) to calculate and record their NO<sub>x</sub> mass emissions. Alternatively, oil-fired and gas-fired units may use a NO<sub>x</sub> CEMS in conjunction with a fuel flowmeter to determine NO<sub>x</sub> mass emissions. For oil-fired and gas-fired units that are either operated infrequently or that have very low NO<sub>x</sub> emissions, Part 75 provides low-cost alternatives to conservatively

estimate NO<sub>x</sub> mass emissions. As shown in Figures 12 and 13, while many units with low levels of emissions do not have to use CEMS, the vast majority (99 percent) of the NO<sub>x</sub> emissions under the NBP are measured by CEMS.

Sources are required to conduct stringent quality assurance tests of their monitoring systems, such as daily and quarterly calibration tests and a semi-annual or annual relative accuracy test audit. These tests ensure that sources report accurate data and provide assurance to market participants that a ton of emissions measured at one facility is equivalent to a ton measured at a different facility.

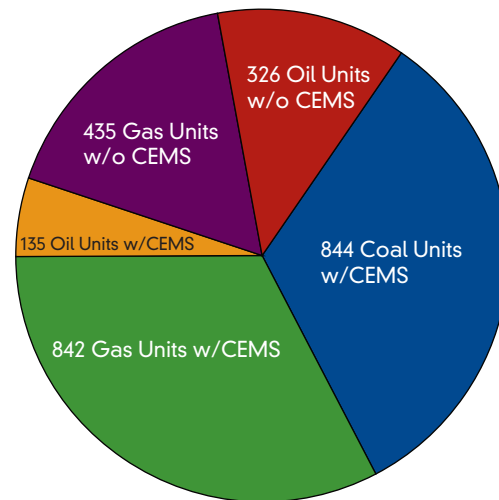
### Compliance Options Used by NBP Sources in 2007

Sources may select from a variety of compliance options to meet the emission reduction targets of the NBP in ways that best fit their own circumstances. Compliance options include:

- Installing NO<sub>x</sub> combustion controls, such as low NO<sub>x</sub> burners.
- Installing add-on emission controls, such as SCR or SNCR.
- Using banked allowances or purchasing additional allowances from other market participants that have reduced emissions below their allocations.
- Decreasing or stopping generation from units with high NO<sub>x</sub> emission rates, or shifting to lower emitting units, during the ozone season.
- Using combinations of the above options.

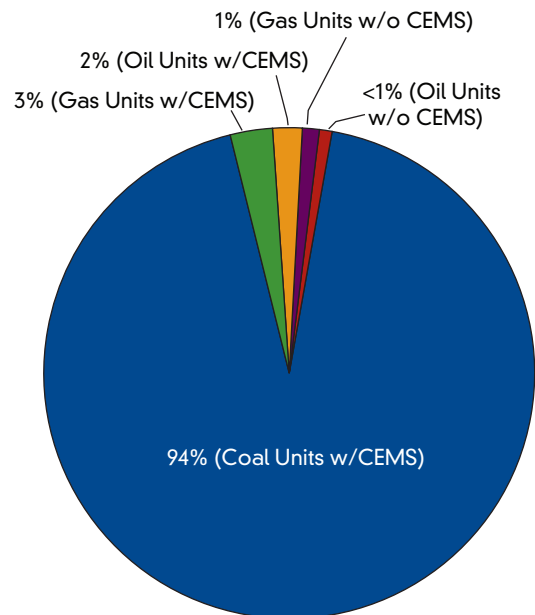
Before implementation of the NBP, a large number of EGUs and some industrial units added combustion controls to meet applicable NO<sub>x</sub> emission limits of either the ARP or state regulations. Add-on control technologies, such as SCR or SNCR, also were frequently installed for NO<sub>x</sub> control. The majority of units that install add-on controls use them in conjunction with combustion controls to achieve greater emission reductions.

Figure 12: Monitoring Methodology for the NBP by Number of Units in 2007



Source: EPA, 2008.

Figure 13: Monitoring Methodology for the NBP by Ozone Season NO<sub>x</sub> Emissions in 2007



Notes:

- The universe of units represented in Figures 12 and 13 are the same as in Figure 4 of this report, excluding the 10 unclassified units (see note on Figure 2 of this report) and two other units, all of which had no emissions in 2007 and no approved Part 75 monitoring.
- Percent totals do not add up to 100 percent due to rounding.

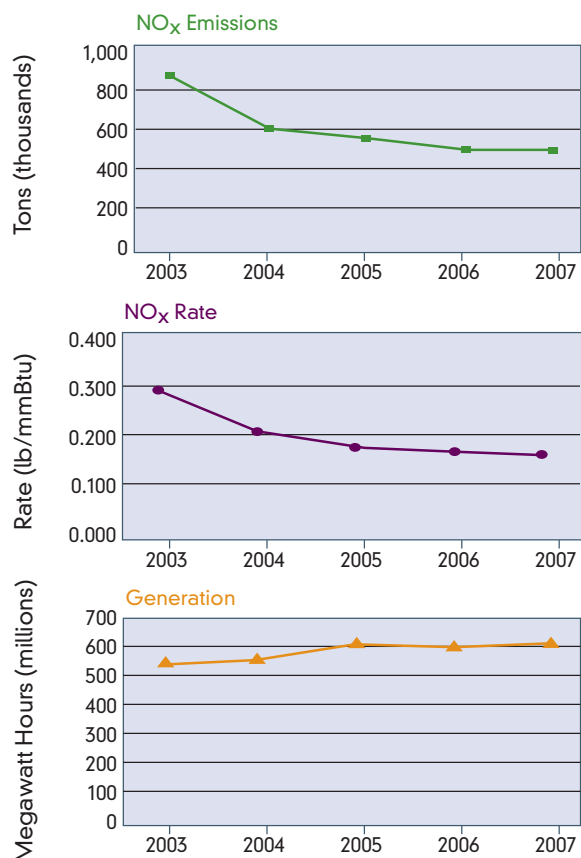
Source: EPA, 2008.

### NO<sub>x</sub> Controls in 2007

While generation increased 2 percent in 2007, NO<sub>x</sub> emissions dropped 0.3 percent due to a continuing improvement in the NO<sub>x</sub> emission rate, a key measure of program effectiveness (see Figure 14). The average NO<sub>x</sub> rate dropped from 0.165 lb/mmBtu in 2006 to 0.159 lb/mmBtu in 2007, driven largely by the increase in the number and operation of controlled units. In 2007, units with controls represented 70 percent of total units and provided 96 percent of generation, while emitting 91 percent of NO<sub>x</sub> emissions (see Figure 15).

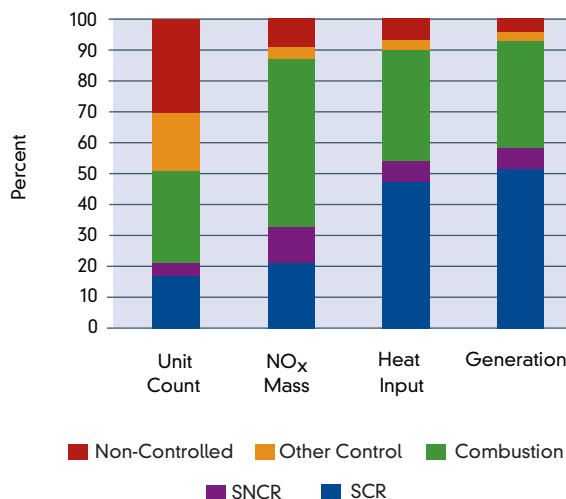
Shifting generation from units with high NO<sub>x</sub> emission rates to units with lower rates is one means of controlling emissions. Gas-fired units generally achieve lower NO<sub>x</sub> emission rates than oil-fired

**Figure 14: Trends in NBP Ozone Season NO<sub>x</sub> Emissions, Emission Rates, and Generation for All Units, 2003–2007**



Source: EPA, 2008.

**Figure 15: Distribution of All Controlled Units and NO<sub>x</sub> Emissions, Heat Input, and Generation in 2007 Ozone Season**



Source: EPA, 2008.

or coal-fired units. Accordingly, the 10 percent increase in gas-fired generation between 2006 and 2007 helped lower the average NO<sub>x</sub> emission rate. The number of gas-fired units reporting emissions in 2007 (1,277) nearly equals that of oil-fired and coal-fired combined (1,305). However, although significant in number, gas-fired units accounted for only 15 percent of generation. The effect of fuel switching on lowering emissions was thus comparatively modest. Coal-fired units, responsible for 94 percent of seasonal NO<sub>x</sub> emissions and 83 percent of generation, were the source of most emission reductions.

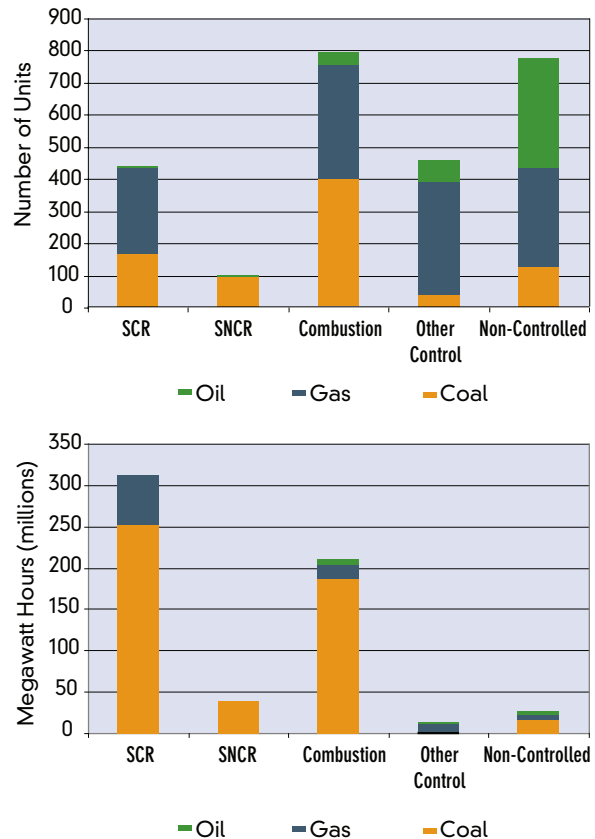
Figure 16 provides a breakdown of units and generation by control category. Because of the frequent use of multiple controls, this report assigns NO<sub>x</sub> control categories in the following order for this analysis:

- SCR - Units that have an SCR by itself or in combination with other controls such as low NO<sub>x</sub> burners, but not an SNCR.
- SNCR - Units that have an SNCR and possibly other controls, but not an SCR.
- Combustion - Units that have a low NO<sub>x</sub> burner or overfire air, and possibly other controls, but not an SCR or SNCR.
- Other Control - Units with a NO<sub>x</sub> control, such as water injection, not in the previous categories.

Coal-fired units with SCRs are responsible for the largest category of generation (see Figure 16). By contrast, the 267 gas-fired SCR units produce only one-fourth of the 2007 seasonal generation of the 168 coal-fired SCR units. Oil-fired units have seen declining output since 2003 and are barely visible in the chart.

The population of units with add-on (SCR and SNCR) and combustion controls both grew in the last year, including the addition of 10 SCRs. This is

Figure 16: Number of Units and Generation by Control and Fuel Type in 2007 Ozone Season



Source: EPA, 2008.

## How Controls Work

- **Combustion Controls** – Low-NO<sub>x</sub> burners and overfire air ports are combustion controls that change the proportion of air to fuel in the combustion zone. This causes combustion to occur in stages, lowering the flame temperature and promoting complete combustion. With a lower flame temperature, less of the nitrogen (N<sub>2</sub>) from air is converted to NO<sub>x</sub>. Minimizing the time of N<sub>2</sub> exposure to high combustion zone temperatures also minimizes NO<sub>x</sub> formation.
- **SCR** – SCR is an add-on post-combustion control that converts NO<sub>x</sub>, created during the combustion process, back to N<sub>2</sub>. With SCR, ammonia (NH<sub>3</sub>)

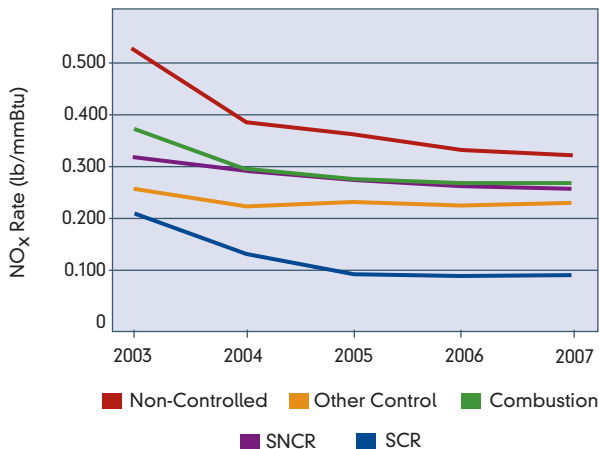
is injected into flue gas before it travels through a fixed bed of catalyst material. The catalyst promotes a reaction between NO<sub>x</sub> and NH<sub>3</sub> to form water vapor and nitrogen. SCR can be applied to a wider range of sources than SNCR (see below) and delivers higher NO<sub>x</sub> removal rates.

- **SNCR** – Similar to SCR, SNCR is an add-on control that is used in boilers to convert NO<sub>x</sub> back to N<sub>2</sub>. It involves injecting a reagent (ammonia or urea) into the furnace just after the combustion zone. In this high temperature zone, a non-catalytic reaction takes place, converting NO<sub>x</sub> to N<sub>2</sub> and water vapor (and carbon dioxide if urea is used).

most likely due to pending NO<sub>x</sub> emission reduction requirements under CAIR,\* scheduled to begin in 2009. Units with SCR controls made up 17 percent of the total number of units but contributed 52 percent of seasonal generation, while emitting only 21 percent of NO<sub>x</sub> emissions. Units with combustion modifications were far less efficient, producing 54 percent of NO<sub>x</sub> emissions while accounting for 35 percent of generation. SNCR units increased in number but still made up only 7 percent of generation. The relative efficiency of control technologies in coal-fired units can be seen in Figure 17, where the average NO<sub>x</sub> emission rates for SCRs are lowest at 0.085 lb/mmBtu, while the combustion category has an average emission rate of 0.271 lb/mmBtu, nearly three times higher than the average SCR emission rate.

The population of non-controlled coal-fired units continues to decline, from 145 in 2006 to 133 in 2007. At the same time, the NO<sub>x</sub> emission rate for this group of units is improving, from 0.344 lb/mmBtu in 2006 to 0.318 lb/mmBtu in 2007. It should be noted that circulating fluidized bed boilers are also listed as non-controlled, but they produce relatively low NO<sub>x</sub> emissions by design. EPA continues to audit monitoring plans to ensure that reported control technology data are accurate. Since the 2006 season, 75 NBP units have submitted updated controls information in response to EPA inquiries.

Figure 17: Ozone Season Average NO<sub>x</sub> Emission Rate by Control Type for Coal-Fired Units, 2003–2007



Source: EPA, 2008.

While non-controlled units amount to nearly one-third of the population by number, they are responsible for only 9 percent of emissions and 4 percent of generation. In a cap and trade program, plant operators install controls where they are most cost-effective, generally on larger base load units. Non-controlled units thus tend to be dispatched during peak capacity to meet electricity demand. On August 8, 2007, both NO<sub>x</sub> emissions and generation reached their seasonal maximum. On that day, generation from non-controlled units was over double their daily seasonal average.

## What Is Emission Rate?

Emission rate is the measure of how much pollutant (NO<sub>x</sub>) is emitted from a combustion unit compared to the amount of energy (heat input) used. In this report, emission rate is expressed as pounds of NO<sub>x</sub> emitted per mmBtu of heat input. Emission rates en-

able comparison of a combustion unit's environmental efficiency given its fuel type and usage. A lower emission rate represents a cleaner operating unit—one that is emitting fewer pounds of NO<sub>x</sub> per unit of energy consumed.

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.

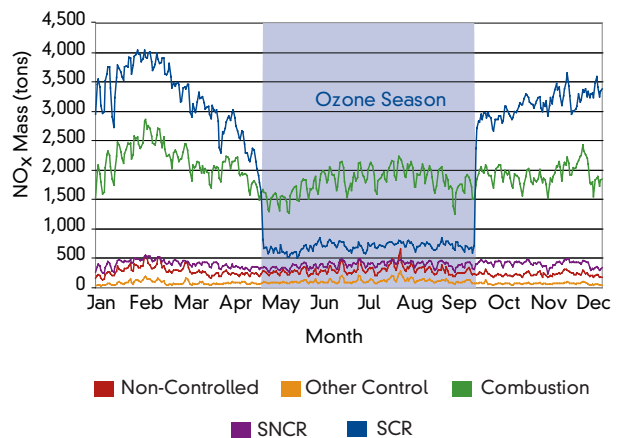
In Figure 18, the start of the ozone season is marked by an 80 percent drop in average daily emissions as SCR controls (primarily on coal-fired units) came online. This drop was not due to a reduction in output; on the contrary, these units as a group reported over 90 percent operating time during the season.

Figure 18 may give the appearance that units with SCR and combustion controls emit more than units without controls. As noted earlier, this is because the large majority of generation (96 percent) is produced by controlled units. A look at NO<sub>x</sub> emission rates helps explain this phenomenon. Figure 17 shows the NO<sub>x</sub> emission rates for coal-fired units by control type.

Units with SCRs have much lower emission rates compared with non-controlled units. This higher efficiency allows gas- and coal-fired SCR units to produce over half the generation in the 2007 ozone season but only one-fifth of the total emissions. By comparison, units without controls were responsible for just 4 percent of generation but 9 percent of seasonal NO<sub>x</sub> emissions. Figure 18 demonstrates the dramatic change in emissions achieved by installing and operating SCRs during the ozone season.

SCRs operate most efficiently at high capacity. As the average heat input rises from 2004 to 2007, the average NO<sub>x</sub> emission rate falls. High grid demand occurs during hot summer weather and coincides with high capacity utilization in base load units. Taking advantage of this demand, operators can over-control SCR units to produce extra emission reductions to be sold as allowances

Figure 18: Daily NO<sub>x</sub> Emissions by Control Type for All Units in 2007



Source: EPA, 2008.

on the market. When NO<sub>x</sub> allowance prices fall below the marginal cost of SCR reduction, there is no economic incentive to over-control. As noted earlier, some states saw increases in NO<sub>x</sub> emission rates at units with SCRs. It is likely that low NO<sub>x</sub> allowance prices played a role. Nevertheless, the continuing deployment and utilization of SCRs is the key driver of these ozone season NO<sub>x</sub> emission reductions. While total generation grew 2 percent, the portion from SCR-controlled units increased 6 percent. Again, the increased utilization of SCR is most likely due to CAIR's\* pending NO<sub>x</sub> emission reduction requirements.

\* On July 11, 2008, the U.S. Court of Appeals for the DC Circuit issued a ruling vacating CAIR in its entirety. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future course of action once the court responds to the petition.



Ozone concentrations have decreased across the East since the implementation of the NBP in 2003, **improving air quality for millions of Americans.**





# Section 4

## Environmental Results

To better understand how the NBP has affected ozone formation in the atmosphere, this section examines changes in ozone concentrations before and after implementation of the NBP in the eastern United States. The section compares regional and geographic trends in ozone concentrations to changes in meteorological conditions (such as temperature) and NO<sub>x</sub> emissions from sources regulated under the NO<sub>x</sub> SIP Call. This section also explores changes in forest ecosystems due to ground-level ozone effects.

### Measuring and Evaluating Changes in Ozone

Two long-term monitoring networks measure ground-level ozone concentrations, meteorological, and other air quality data throughout the United

States. Monitoring sites used for regulatory compliance are located mainly in urban areas and report data to EPA's Air Quality System (AQS). Sites in EPA's Clean Air Status and Trends Network (CASTNET) measure regional trends in ozone from rural sites. The changes in eastern ozone concentrations presented in this report depict data from AQS and CASTNET monitoring sites located within both NBP and adjacent states.

Weather plays an important role in determining ozone levels. EPA often uses a statistical model to account for the weather-related variability in seasonal ozone concentrations to provide a trend that is more representative of changes in emissions. Averaging ozone concentrations across multi-year periods is another way to account for the effects of weather.

### Metrics for Assessing Ozone Concentrations

Two metrics are used to evaluate trends in ozone concentrations in this section of the report. Each metric enhances our understanding of changes in ozone and indicates that ozone has decreased since implementation of the NBP. The two metrics are:

- **Daily maximum 8-hour ozone concentrations:** This metric shows progress toward meeting the primary (health-based) ozone NAAQS. The seasonal average indicates general changes in daily maximum 8-hour concentrations in the NBP region, while the three-year average of the fourth highest daily maximum 8-hour ozone concentration is more indicative of potential changes in nonattainment status in the East and can help identify areas of major concern. According to

this metric, ozone decreased by 10 percent in the NBP region (after adjusting for meteorology) since implementation of the NBP.

- **99th percentile of 1-hour ozone concentration:**\* This metric shows changes in the highest ozone concentrations and provides a broad picture of ozone in the eastern United States. This metric is representative of true, measured ozone concentrations without meteorological adjustments. According to an analysis of the 99th percentile of 1-hour ozone concentration data from AQS and CASTNET sites, ozone levels decreased an average of 8 percent, while data from CASTNET sites alone shows a decline of 11 percent in ozone levels in the NBP region since implementation of the NBP.

\* The 99th percentile is used in this year's report because it is more statistically similar to the 4th highest daily maximum 8-hour ozone metric than the 90th percentile used in last year's report.

All of the analyses presented in this section show substantial overall improvements in ozone in the NBP region during the ozone season since implementation of the program in 2003. These results are further supported by numerous studies investigating the impact of NO<sub>x</sub> emission reductions from NBP sources in the region compared with other emission reduction programs and in a world without the NBP.<sup>4</sup>

### Changes in 1-Hour Ozone Concentrations in the East

Using three-year averages from two different time periods, EPA examined changes in regional 1-hour ozone concentrations, as measured at urban (AQS) and rural (CASTNET) sites. Results indicate how NO<sub>x</sub> emission reduction policies have affected ozone concentrations in the East. Figure 19 shows changes in the 99th percentile of 1-hour ozone concentrations between two time periods: 2000–2002 (before implementation of the NBP) and 2005–2007 (under the NBP). An overall regional reduction in the 99th percentile of ozone concentrations was observed between these two time periods, with an average reduction in ozone concentrations in NBP states of 8 percent.

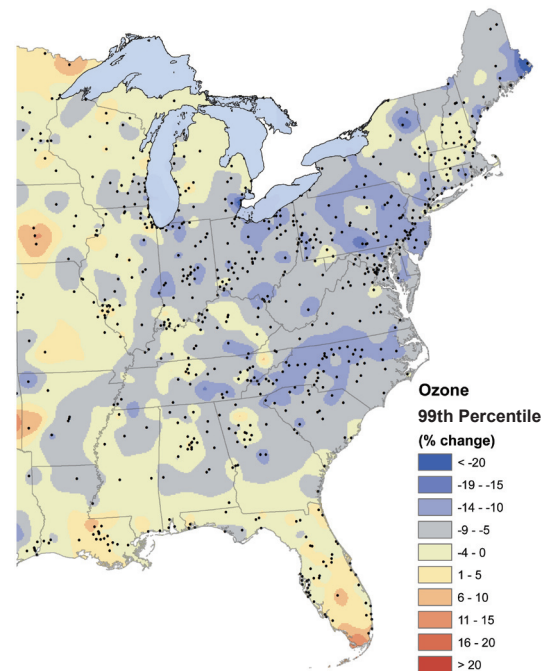
### Chemical Changes in the Atmosphere

EPA assessed the performance of the NBP by monitoring changes in rural ozone and total nitrate concentrations, using data from CASTNET sites in the East.

### Changes in Rural Ozone Concentrations

Rural ozone measurements are useful in assessing the impacts on air quality resulting from regional NO<sub>x</sub> emission reductions because these monitoring sites are typically unaffected by local sources of NO<sub>x</sub> (e.g., industrial, automotive and power generation sources). In addition, rural monitoring sites are located in areas where there is a relatively constant release of VOCs given off from vegetation (e.g., trees, crops, and grass). Consequently, the formation of ozone in these areas is particularly

**Figure 19: Percent Change in Average Ozone Concentrations during the Ozone Season, 2000–2002 versus 2005–2007**



Note: AQS and CASTNET monitoring sites used for this analysis are shown as black dots on this map.

Source: EPA, 2008.

sensitive to changes in levels of NO<sub>x</sub> emissions. Therefore, the majority of reductions in rural ozone concentrations can be attributed to reductions in regional NO<sub>x</sub> emissions and transported ozone.

Global emission sources also contribute to levels of NO<sub>x</sub> and ozone in the atmosphere, further complicating assessments of regional and local NO<sub>x</sub> reduction programs. Over the past several decades, global NO<sub>x</sub> emissions have increased significantly, leading to increased global background NO<sub>x</sub> concentrations. As an ozone precursor, increased background NO<sub>x</sub> concentrations have led to increased background ozone concentrations in the Northern Hemisphere. This has been documented by the International Panel on Climate Change.<sup>5</sup> While determining true background ozone levels is a challenge, changes in the lower statistical distributions of measured ozone concentrations from rural ambient monitoring sites can be used to assess trends in background ozone levels.<sup>6</sup>

CASTNET

CASTNET is a long-term monitoring network designed to assess trends in regional (rural) ozone levels and acidic dry deposition. Sites are equipped with an hourly ozone analyzer and a three-stage filter pack to collect total weekly gaseous (i.e., nitric acid) and particulate (i.e., nitrate) concentrations. Many of the monitoring sites have been running continuously for over 15 years, making the network ideal for long-term trends analyses. Regional trends in ozone concentrations from CASTNET sites have been used to assess emission reduction programs, such as the NBP and ARP. Figure 20 shows the 46 reference CASTNET sites used in the analysis of trends in rural ozone concentrations (Figures 21, 23, and 24). These sites are located in NBP states or within 200 kilometers (km) of an NBP state's border. To be included in these analyses, a site must have at least 75 percent complete and valid data for the year or ozone season. For the analysis in Figure 22, which uses three-year averages, 40 CASTNET sites met the completeness criteria with 75 percent complete and valid data for two out of the three years. These 40 sites are shown in Figure 22.

Figure 20: Location of CASTNET Sites

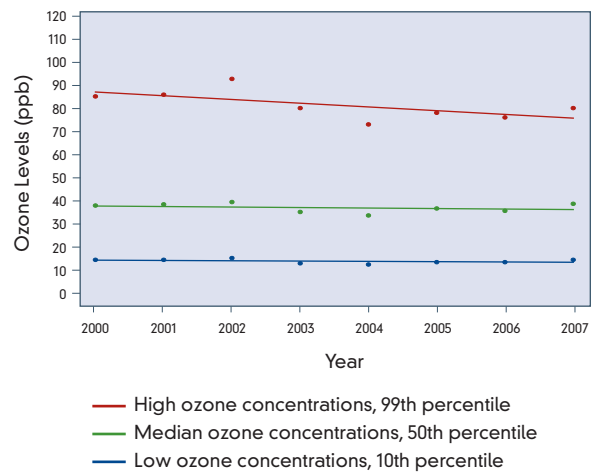


Note: States in the NBP region are shaded green.  
Source: EPA, 2008.

Ozone levels vary by season and location, but regional trends can be discerned. Using CASTNET data, EPA has found that seasonal patterns and concentrations of ozone have changed in the NBP region during the ozone season (see Figure 21). Lower concentrations of ozone (10th percentile of ozone levels) and median ozone concentrations (50th percentile) have remained unchanged since 2000 in spite of increasing global background NO<sub>x</sub> concentrations.<sup>7</sup> On the other hand, higher concentrations of ozone (99th percentile of ozone levels) have decreased by about 5 ppb from 2000 to 2007. This decrease is most likely due to NBP-driven reductions in regional NO<sub>x</sub> emissions as seen by the large drop in ozone between 2002 and 2004. The changes in the 99th percentile are not significant in the months outside the NBP ozone season (October–April).

Similar trends in rural ozone concentrations were observed at individual reference monitoring sites. As expected, there was variation across the region,

Figure 21: Changes in the Distribution of Rural Ozone Concentrations during the Ozone Season in the NBP Region, 2000–2007



Notes:

- This graph depicts a Theil regression analysis of measurements from CASTNET monitoring sites for the ozone season for each year. The Theil regression is a non-parametric regression analysis developed by H. Theil. This analysis is similar to a linear least squares regression analysis, but can account for datasets that are not normally distributed.
- Ozone data are from CASTNET sites in and around the NBP region that met completeness criteria.

Source: EPA, 2008.

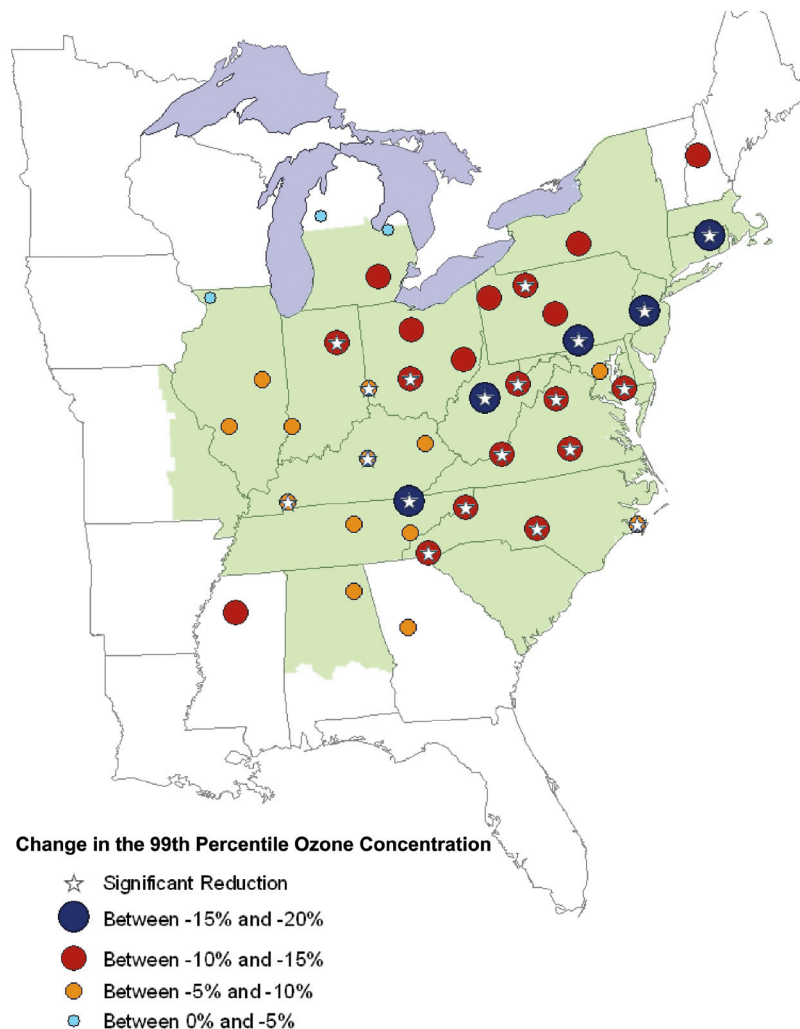
with the largest and most significant decreases in the highest ozone concentrations near the Ohio River Valley, where NBP sources decreased NO<sub>x</sub> emissions most dramatically (see Figure 22).

Three-year averages are used here to reduce the effect of weather. Accordingly, between 2000–2002 and 2005–2007, across the NBP region, the average percent change in the highest ozone concentrations was 11 percent. The largest reduction in the high-

est ozone concentrations (20 percent) was measured at Arendtsville in southern Pennsylvania.

Figure 22 displays the average percent reduction in the highest ozone concentrations at individual rural CASTNET sites between 2000–2002 and 2005–2007. At many sites in the NBP region, the decrease in ozone between the two time periods was significant and statistically different.

Figure 22: Percent Reduction in Rural Ozone in the NBP Region during the Ozone Season, 2000–2002 versus 2005–2007

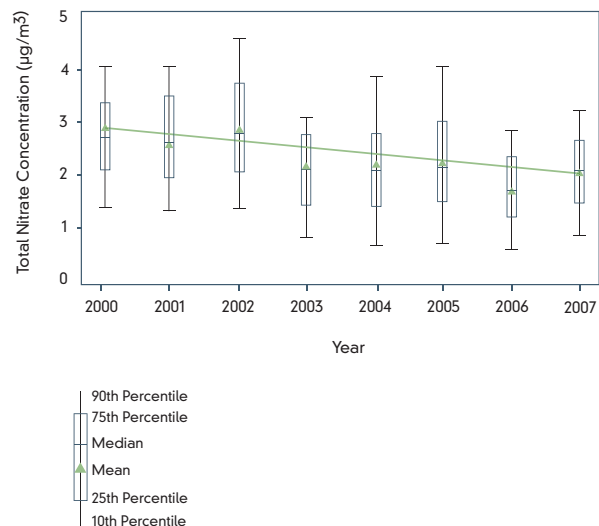


Notes:

- States in the NBP region are shaded green.
- The change in ozone concentration is the percent change of the average of the 99th percentile of 1-hour ozone concentrations between each three-year period. Significance is calculated at the 90 percent confidence level.
- Ozone data are from CASTNET sites in and around the NBP region that met completeness criteria.

Source: EPA, 2008.

**Figure 23: Ozone Season Total Nitrate Concentrations in the NBP Region, 2000–2007**



**Notes:**

- Total nitrate data are from CASTNET sites in and around the NBP region that met completeness criteria.
- A Theil regression was used for this analysis.

Source: EPA, 2008.

**Changes in Nitrate**

NO<sub>x</sub> is emitted from a source as nitric oxide (NO) and nitrogen dioxide (NO<sub>2</sub>). Once in the air, several chemical reactions occur, depending on meteorological conditions and concentrations of other pollutants in the atmosphere. NO<sub>x</sub> emission sources contribute to the formation of many secondary pollutants, including particulate nitrate (NO<sub>3</sub><sup>-</sup>), nitric acid (HNO<sub>3</sub>), ozone, and organic compounds. For example, ozone is produced when NO<sub>2</sub>, VOCs, and sunlight are present.

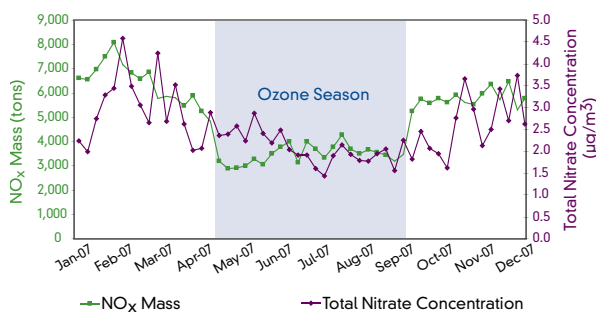
Generally, NO<sub>x</sub> is removed from the atmosphere by dry deposition of nitric acid and particulate nitrates, and wet deposition of dissolved nitrates. Nitrate deposition can be harmful to sensitive ecosystems, vegetation, and water bodies, causing eutrophication of water bodies, changes in biological communities, and an increased sensitivity to

changes in the environment. Because the majority of NO<sub>x</sub> is removed from the atmosphere over a period of four to nine days, nitrogen deposition from transported NO<sub>x</sub> emissions may still affect areas that are considerable distances from NO<sub>x</sub> emission sources.<sup>8</sup>

As facilities install and use control technologies, reducing the amount of NO<sub>x</sub> emitted in the NBP region, the amount of NO<sub>x</sub> secondary pollutants also decreases. Concentrations of total nitrates (particulate NO<sub>3</sub><sup>-</sup> and HNO<sub>3</sub>) have dropped by 0.65 micrograms per cubic meter (µg/m<sup>3</sup>), a decline of 24 percent since 2000, before implementation of the NBP (see Figure 23).

Figure 24 demonstrates the relationship between the reductions in summertime NO<sub>x</sub> emission from NBP sources and the subsequent reductions in summertime total nitrate concentrations observed at CASTNET sites within the NBP region. There is a delay in how total nitrate concentrations in the NBP region react to the NO<sub>x</sub> emission reductions during the NBP ozone season. EPA is investigating the cause and nature of this delay.

**Figure 24: Emissions from NBP Sources and Total Nitrate Concentrations in 2007**



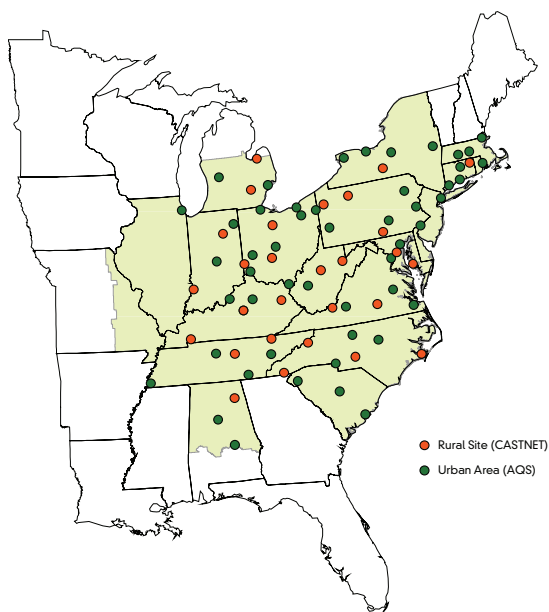
Note: Total nitrate measurements are from the CASTNET sites in and around the NBP region that met completeness criteria.

Source: EPA, 2008.

## Changes in 8-Hour Ozone Concentrations

Eight-hour daily ozone concentration data were assessed from 50 urban AQS areas and 27 rural CASTNET sites located in the NBP region. For a monitor or area to be included in this trend analysis, 50 percent of the ozone season days needed to have complete and valid data for at least nine of the 11 years from 1997–2007. In addition, urban AQS areas often include more than one monitoring site. In these cases, the site with the highest observed ozone concentration for each day was used. Figure 25 shows the AQS and CASTNET monitoring sites in the NBP region that met these completeness criteria.

Figure 25: Location of Urban and Rural Ozone Monitoring Sites



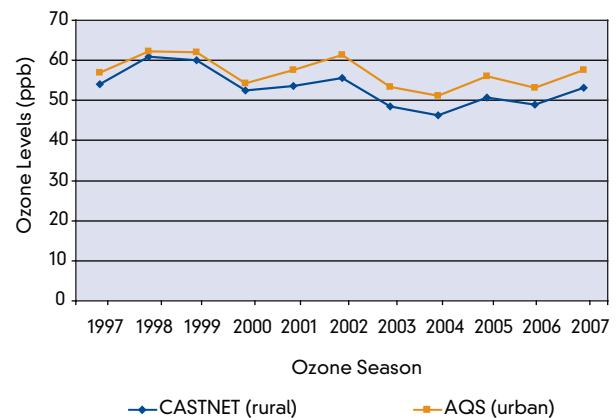
Notes:

- Urban areas are represented by multiple monitoring sites. Rural areas are represented by a single monitoring site. For more information on AQS, visit <[www.epa.gov/ttn/airs/airsaqs](http://www.epa.gov/ttn/airs/airsaqs)>. For more information about CASTNET, visit <[www.epa.gov/CASTNET](http://www.epa.gov/CASTNET)>.
- States in the NBP region are shaded green.

Source: EPA, 2008.

Over the past 11 years (1997–2007), trends in the seasonal average 8-hour ozone concentrations in the NBP region (Figure 26) show a similar overall decline at urban and rural monitoring locations. The seasonal average ozone concentration is calculated as the average of the daily maximum 8-hour ozone concentrations during the ozone season. These results provide an aggregated seasonal average for NBP states and do not show variations in ozone concentrations for specific urban or rural areas.

Figure 26: Seasonal Average 8-Hour Ozone Concentrations in the NBP Region (Not Adjusted for Meteorology), 1997–2007



Note: Data represented in this figure are averages of 8-hour daily maximum ozone concentrations during the ozone season for AQS and CASTNET sites within the NBP region.

Source: EPA, 2008.

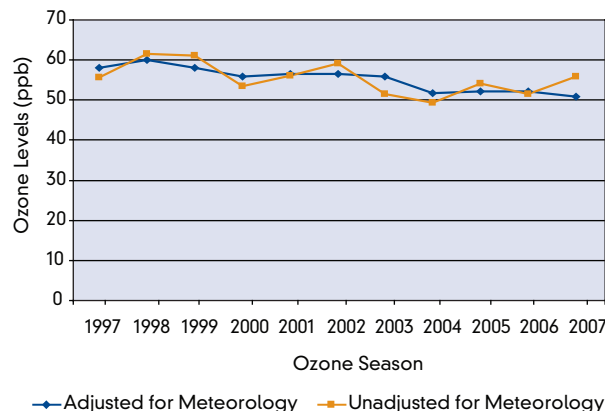
Figure 27 shows trends in the seasonal average 8-hour ozone concentrations in the NBP region with and without considering the influence of weather. It is important to account for meteorological variations when comparing two years with notably different weather conditions and ozone-forming potential (e.g., 2004 versus 2007). In general, lower temperatures in the NBP region during the 2004 ozone season dampened ozone formation, while higher temperatures in the 2007 ozone season increased ozone formation. Removing the effects of weather results in a higher-than-observed ozone estimate for 2004 and a lower-than-observed ozone estimate for 2007. Despite weather conditions conducive to ozone formation in 2007, average ozone concentrations in the NBP region were lower than in 2002, before implementation of the NBP.

### Ozone Changes after Adjusting for Meteorology

As noted earlier, weather plays an important role in determining ozone levels. Accordingly, EPA uses a generalized linear model to describe the relationship between daily ozone and several meteorological parameters.<sup>9</sup> The model also accounts for the variation in seasonal ozone across different years by correcting for meteorological fluctuations between those years. The most important meteorological parameters considered in this model are daily maximum 1-hour temperature and midday (10 a.m. to 4 p.m.) relative humidity. The resulting estimates represent ozone levels anticipated under typical weather conditions for the ozone season. This methodology and the subsequent ozone estimates are provided by EPA's Office of Air Quality Planning and Standards (OAQPS), Air Quality Assessment Division ([www.epa.gov/airtrends/weather.html](http://www.epa.gov/airtrends/weather.html)).

A closer look at the meteorologically adjusted ozone trends since the start of the NBP in 2003 indicates that these reductions are real and sustainable. The average reduction in seasonal 8-hour ozone concentrations actually measured in the NBP

Figure 27: Seasonal Average 8-Hour Ozone Concentrations in the NBP Region before and after Adjusting for Meteorology, 1997–2007



Note: Data presented in this figure are averages of 8-hour daily maximum ozone concentrations during the ozone season for AQS and CASTNET sites within the NBP region.

Source: EPA, 2008.

region in the 2000–2002 and 2005–2007 time periods was about 4 percent. After considering the influence of weather, the improvement in 8-hour ozone concentrations between these two three-year periods was 8 percent. A comparison of single year meteorologically adjusted ozone shows a 10 percent reduction between 2002 and 2007.

Furthermore, the pace of these reductions has increased since implementation of the NBP. Between 1997 and 2002, ozone fell by 3 percent, while between 2002 and 2007, ozone dropped by 10 percent. On average, across the NBP region, meteorologically adjusted ozone levels have been fairly stable since 2004, indicating that the majority of the progress made in reducing ozone levels since 2003 is being maintained. This is also consistent with the downward trend in NO<sub>x</sub> emissions.

### Linking Ozone and NO<sub>x</sub> Emissions

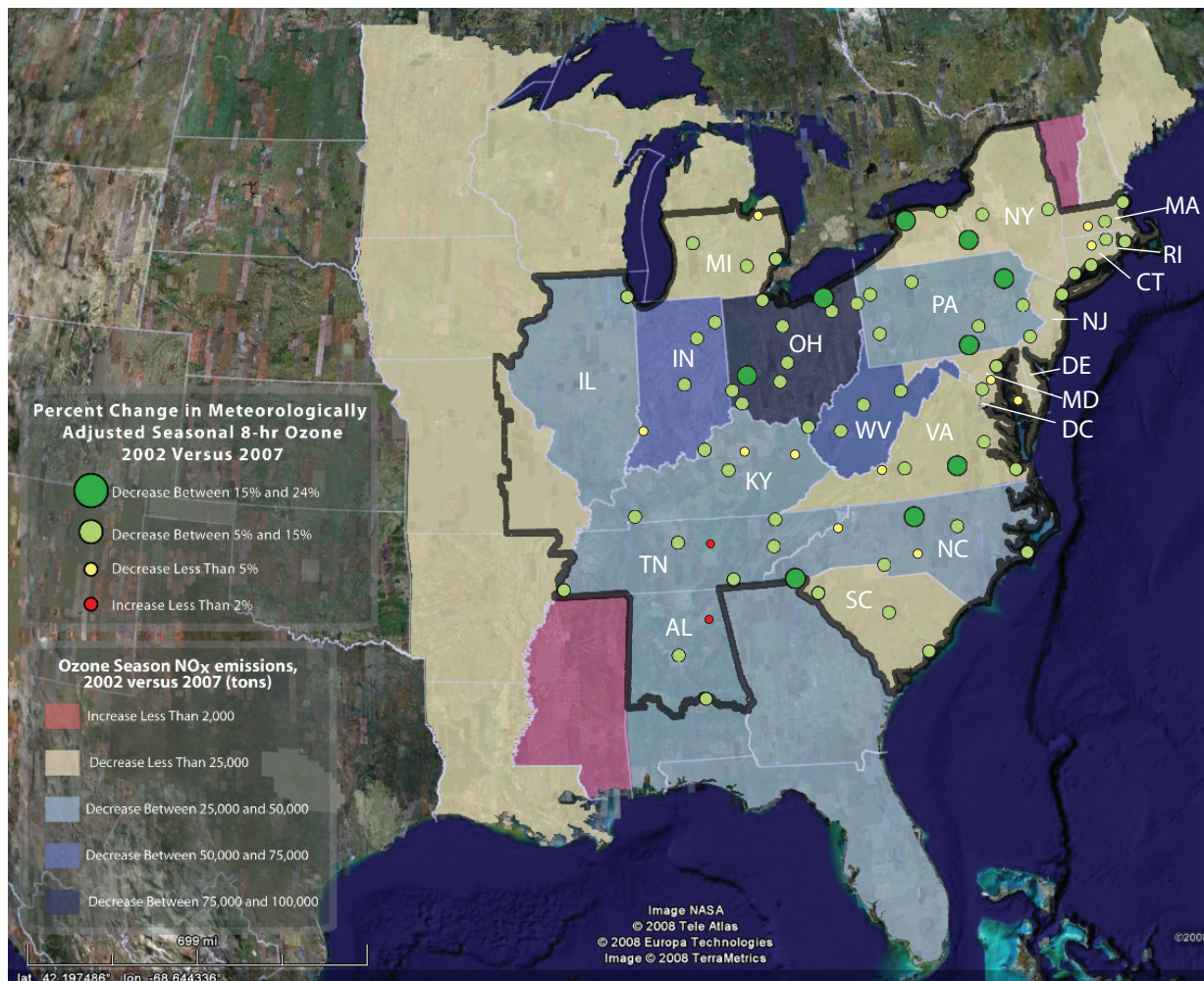
Figure 28 shows the relationship between reductions in power industry NO<sub>x</sub> emissions and reductions in 8-hour average ozone after implementation of the NBP. As mentioned previously, between 2002 and 2007, ozone decreased across all NBP states (after adjusting for meteorology) by 10 percent. The largest reductions occurred in New York, Ohio, Virginia, North Carolina, and Pennsylvania.

Generally, there is a strong association between areas with the greatest NO<sub>x</sub> emission reductions

from NBP sources and downwind monitoring sites measuring the greatest improvements in ozone. This suggests that, as a result of the NBP, transported NO<sub>x</sub> emissions have been reduced in the East, contributing to ozone reductions that have occurred after 2002.

Over the past several years, a series of studies has examined the NO<sub>x</sub> SIP Call and NBP link between decreasing ozone concentrations and decreasing NO<sub>x</sub> emissions in the East. The most recent study in this series focused on ozone production

**Figure 28: Reductions in Ozone Season NBP NO<sub>x</sub> Emissions and Changes in 8-Hour Ozone, 2002 versus 2007**



**Notes:**

- From 1999 to 2002, states in the Northeast reduced emissions from EGUs and industrial boilers under the OTC NO<sub>x</sub> Budget Program. OTC states include Connecticut, Delaware, the District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Virginia.
- Meteorologically adjusted ozone data are from AQS and CASTNET sites that met completeness criteria.

Source: EPA, 2008.



rates and changes in the chemical processes that contribute to the formation of ozone.<sup>10</sup> Researchers compared a 2002 base case to a 2004 emission scenario and used community multiscale air quality modeling to demonstrate how reductions in NO<sub>x</sub> emissions affected 8-hour ozone concentrations. Consistent with prior analysis, ozone chemical production rates decreased more significantly in areas downwind of major point sources where NO<sub>x</sub> emission reductions were most pronounced. This resulted in significant reductions in ozone concentrations in these areas, particularly those downwind from sources in the Ohio River Valley. Furthermore, researchers found that the reduc-

tions in NO<sub>x</sub> emissions also contributed to a shift toward a more NO<sub>x</sub>-limited condition in the same areas. A region is considered NO<sub>x</sub>-limited when the chemical characteristics of the atmosphere are such that the reduction of ozone depends on the amount of NO<sub>x</sub> in the atmosphere, as opposed to both NO<sub>x</sub> and VOCs. Thus, control of NO<sub>x</sub> in the region would effectively and dramatically reduce ozone concentrations. Because the majority of NO<sub>x</sub> SIP Call reductions were achieved through the NBP, this analysis demonstrates that the NBP is helping to reduce the concentration of NO<sub>x</sub> in the atmosphere in the eastern United States to levels that support substantial ozone reduction.



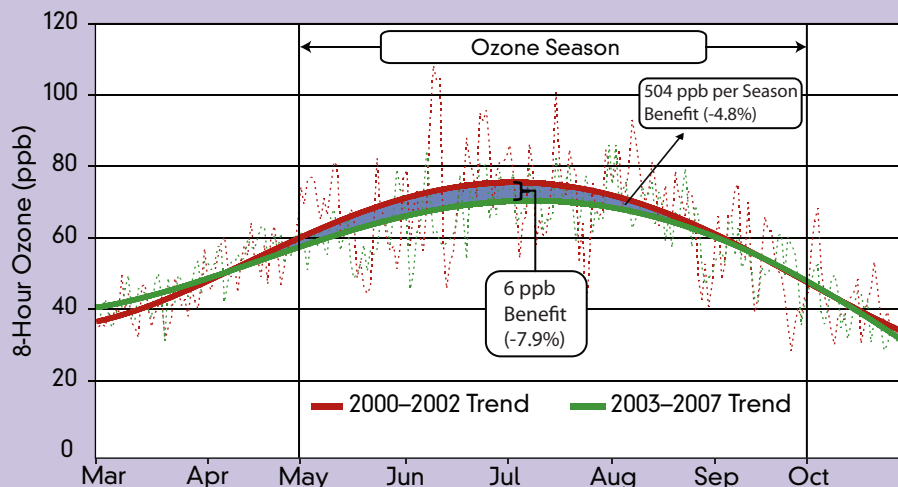
## CASE STUDY: Changes in Ozone Levels in One NBP State: Improvements Observed in Maryland

The Maryland Department of the Environment (MDE), in partnership with the University of Maryland, has been studying ozone transport and how the NBP has affected Maryland's air quality. Maryland believes that the regional NO<sub>x</sub> reductions from the NBP, as well as local and national mobile source control programs, are directly linked to the dramatic reductions in ozone levels observed in Maryland since 2002. Specifically, NBP-driven NO<sub>x</sub> emission reductions have decreased the aloft ozone and ozone precursors, which can be transported from state to state for hundreds of miles. Accordingly, Maryland believes the NBP is the single-most important policy whose implementation has brought cleaner air to states like Maryland, which are overwhelmingly affected by transport.

MDE found that air quality in Maryland has improved dramatically since implementation of the NBP in 2003. Improvement highlights include:

- Sustained and marked decline in observed ground-level ozone concentrations.
- Attainment with the 1-hour ozone standard by all of Maryland's nonattainment areas.
- A 6 ppb (8 percent) decline in peak seasonal ozone concentrations observed at monitors between the pre-NBP (2000-2002) and during-NBP (2003-2007) time periods.
- An overall 5 percent decrease in ozone during the ozone season, where the majority of ozone reductions were observed.
- A 37 percent reduction in 8-hour ozone exceedance days (OED) between the 2000-2002 and 2003-2007 time periods. Transport patterns were not notably different before versus during the NBP, suggesting that the decline in OED was driven primarily by reductions in pollutant emissions.

**Figure 29: Average of Daily Peak 8-Hour Ozone Concentrations in Maryland, 2000–2002 versus 2003–2007**



**Notes:**

- Dashed lines are observed average of daily peak 8-hour ozone concentrations across all monitoring sites in Maryland for each period, showing day-to-day variations due primarily to different meteorological conditions.
- Solid lines are best-fit curves representing the observed data in each period.
- Blue shading is the net benefit for observed ozone concentrations during the ozone season (May 1–September 30) between 2000–2002 and 2003–2007.

Source: Maryland Department of the Environment, 2008.

## CASE STUDY: Changes in Ozone Levels in One NBP State: Improvements Observed in Maryland

- Noticeable reductions in ozone levels in the early morning, elevated reservoir of transported pollution found above the Mid-Atlantic region on most bad air days.

### Seasonal Ozone Concentrations

Analysis of daily peak 8-hour ozone concentrations indicates both changes in the maximum ozone concentrations, as well as changes observed during the summer ozone season. Recent research indicates that ozone data in Maryland follow a three to five-year temperature cycle related to the number of hot days ( $\geq 90^\circ\text{F}$ ) observed at the Baltimore-Washington International Airport.<sup>11</sup> This cycle was used to analyze the underlying ozone trends before and during the NBP, while minimizing the year-to-year variability of meteorology. Figure 29 shows the averages of daily peak 8-hour ozone concentrations from monitoring sites in Maryland before the NBP (2000-2002) compared with during the NBP (2003-2007). Best-fit curves are drawn through each set of concentrations. Comparison of these two best fit curves reveals a maximum difference in daily average peak ozone concentration of 6 ppb (8 percent). Figure 29 also shows a 504 ppb per ozone season (5 percent) decline in the total amount of ozone in Maryland during the official NBP ozone season (May 1-September 30).

### Aloft Transport Patterns and OED

Additional analysis investigated the relationship between transport patterns and pollutant emissions, demonstrating how transport patterns relate to air quality episodes observed in Maryland and in the Mid-Atlantic and Northeast regions. A clustering technique was used to show that high concentrations of NO<sub>x</sub> emissions were linked with high ozone concentrations measured by 232 aircraft vertical profiles performed in the Mid-Atlantic and Northeast from 1997 to 2003.<sup>12</sup> Upwind emission sources of NO<sub>x</sub> and SO<sub>2</sub> from the Ohio River Valley play a crucial role in the amount of ozone measured in the lower troposphere in the Mid-Atlantic.

Additional clustering work shows little change in the pollutant transport patterns before or during the NBP.<sup>13</sup> Westerly, southwesterly, and northwesterly flows (each consistent with flow from the Ohio River Valley) are the most dominant pollutant transport patterns associated with 8-hour OED in Maryland.

Prior to the NBP (2000-2002), Maryland observed about 30 OED per year on average. During the NBP (2003-2007), Maryland observed about 19 OED per year on average, a reduction of 37 percent. The lack of change in pollution transport patterns, in conjunction with NO<sub>x</sub> emission reductions achieved under the NBP since 2003, suggest that the decrease in 8-hour OED in Maryland is driven primarily by the implementation of the NBP.

### The Elevated Reservoir

MDE is in the early stages of research designed to quantify the reductions in ozone and ozone precursors in the elevated reservoir of transported pollution that hovers above the Mid-Atlantic region on most bad ozone days. Maryland is using balloons, elevated monitors, aircraft, light detection and ranging technology (LIDAR), and satellites to support this research.

This early morning reservoir, which contains transported ozone levels from the south and the west, routinely includes ozone levels in the 50 to 80 ppb range (sometimes as high as 100 ppb). When this reservoir mixes down to ground level around mid-day, virtually all of Maryland's monitors jump dramatically from very low levels to the high levels of the reservoir. Locally-produced ozone is then added to that regional load of transported ozone and precursors.

Preliminary analysis indicates that, since implementation of the NBP, there have been clear, meaningful reductions in the ozone levels in the elevated reservoir on many days. Results on other days have been less conclusive and may be linked to the specific meteorology on that day, the actual location of the NBP reductions, and other less-controlled sources that contribute to the transported pollution contained in the elevated reservoir.

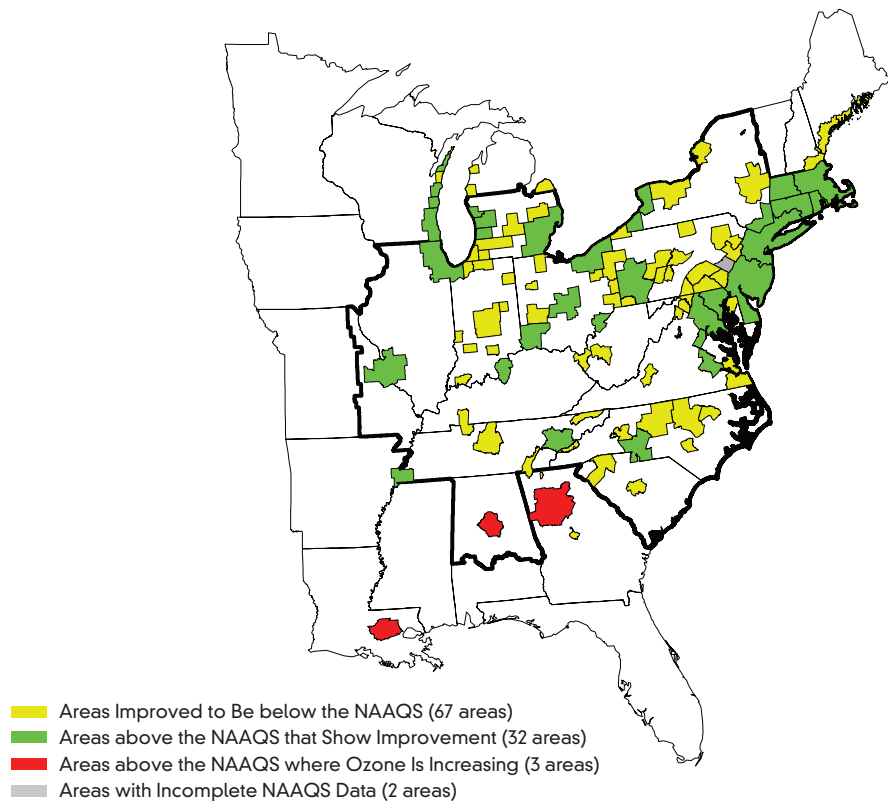
### Changes in Ozone Nonattainment Areas

In April 2004, EPA designated 126 areas as nonattainment for the 8-hour ozone standard adopted in 1997.<sup>14</sup> These designations were made using data from 2001–2003. Of those areas, 104 are in the East (as shown in Figure 30) and are home to about 108 million people.<sup>15</sup> Based on data gathered from 2005–2007, 67 of these original nonattainment areas show concentrations below the level of the 1997 ozone standard (0.08 ppm), indicating improvements in ozone. This is a smaller number than was presented in last year’s report based on data from 2004–2006 (83 areas). This difference is due to somewhat higher ozone concentrations in 2007 that pushed a number of areas back above the standard, despite overall decreases in NO<sub>x</sub>

emissions. Even so, improvements in these 67 areas mean that 64 percent of the original nonattainment areas in the East now have ozone air quality that is better than the standard under which they were originally designated nonattainment. These improvements bring cleaner air to over 24 million people. Several of these areas have officially been redesignated to attainment or maintenance, as described in the Clean Air Act, Section 107.

Thirty-five of the original 104 areas in the East continue to exceed the level of the standard; however, on average, ozone concentrations in these areas have fallen by 7 percent. Because of these reductions in ozone, over 78 million Americans living in these areas are experiencing better air quality. Given that the majority of relevant NO<sub>x</sub> emission reductions occurring after 2003 are at-

**Figure 30: Changes in 8-Hour Ozone Nonattainment Areas in the East, 2001–2003 (Original Designations) versus 2005–2007**



Note: States in the NBP region are shown inside the black boundary line.

Source: EPA, 2008.

tributable to the NBP, it is clear that the NBP is the most significant contributor to these improvements in ozone air quality.

## Ozone Impacts on Forests

Air pollution can impact the environment and affect ecological systems, leading to changes in the biological community, both in the diversity of species and in the health and vigor of individual species. As an example, many studies have shown that ground-level ozone reduces the health of plants, including many commercial and ecologically important forest tree species throughout the United States.<sup>16</sup>

When ozone is present in the air, it can enter the leaves of plants, where it can cause significant cellular damage. This damage can compromise the ability of the plant to produce energy during photosynthesis by reducing carbon fixation. The remaining energy resources of the plant can be depleted as leaves attempt to repair or replace damaged tissue. This loss of energy resources can lead to reduced growth and/or reproduction in plants. Ozone stress also increases the susceptibility of plants to disease, insects, fungus, and other environmental stresses (e.g., harsh weather). Because ozone damage can also cause visible injury to leaves both with and without the presence of other effects, it can reduce the aesthetic value of ornamental vegetation and trees, and negatively affect scenic vistas in protected natural areas.

Assessing the impact of ground-level ozone on forests in the eastern United States involves understanding the risk to tree species from ambient ozone concentrations and accounting for the prevalence of those species within the forest. As a way to quantify the risk to particular trees, scientists have developed concentration-response (C-R) functions which relate ozone-exposure to tree response. Typically, seedlings are used because they are easy to manipulate and measure growth loss from ozone pollution. Tree seedling C-R functions are determined by exposing tree seedlings to different

ozone levels and measuring reductions in growth as “biomass loss.” While ozone affects both seedlings and mature trees, the magnitude of the effect and the response may differ depending on the tree maturity, size, and species.<sup>17</sup>

Some of the common tree species in the eastern United States that are sensitive to ozone are black cherry (*Prunus serotina*), yellow-poplar (*Liriodendron tulipifera*), sugar maple (*Acer saccharum*), and eastern white pine (*Pinus strobus*). C-R functions have been developed for each of these tree species. Consequently, with knowledge of the distribution and abundance of sensitive species and the level of ozone at particular locations, it is possible to estimate a biomass loss for each species. If the losses for each sensitive species are summed at a location, that value can be used as an indicator of the response of the local forest community to ozone exposure. In areas where these species dominate the forest community, the biomass loss from ozone can be significant.

To estimate the biomass loss for the forest community across the eastern United States, the biomass loss for each of the four tree species was calculated using the three-month, 12-hour W126 exposure metric at each location, along with each tree’s individual C-R functions.\* The W126 exposure metric was calculated using monitoring data from the CASTNET and AQS sites, and a three-year average was used to mitigate the effect of meteorological and soil moisture variability. The biomass loss estimate for each species was then multiplied by its relative abundance, using the U.S. Department of Agriculture (USDA) Forest Service IV index of tree abundance calculated from Forest Inventory and Analysis (FIA) measurements.<sup>18</sup> The losses from each species were then summed to create a net percent biomass loss for that community (see Figure 31). This analysis was done for two time periods: 2000-2002 (before the NBP) and 2005-2007 (under the NBP) and demonstrates the benefit to forest ecosystems from decreasing ozone concentrations during these two time periods.

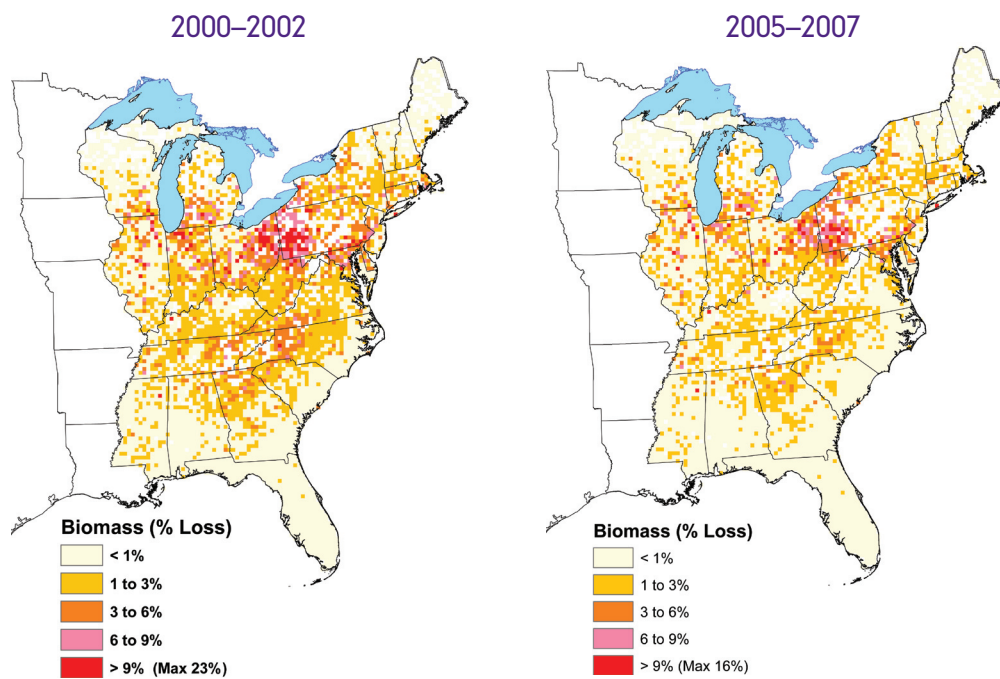
\* The W126 exposure metric is a cumulative (not average) exposure index that is biologically based and places a greater weight on the higher hourly ozone concentrations.

## Section 4. Environmental Results

The most sensitive tree species in the eastern United States is the black cherry. Since implementation of the NBP, areas of significant biomass loss\* have decreased by 4 percent. Yellow-poplar, sugar maple, and eastern white pine also experienced a reduction of 2-5 percent in areas with significant

biomass loss. While this change in biomass loss cannot be exclusively attributed to the implementation of the NBP, it is likely that  $\text{NO}_x$  emission reductions and the corresponding decreases in ozone concentration occurring under the NBP contributed to this environmental improvement.

**Figure 31: Estimated Black Cherry, Yellow Poplar, Sugar Maple, and Eastern White Pine Biomass Loss due to Ozone Exposure**



Note: Sources of uncertainty include the ozone-exposure/plant-response functions, the tree abundance index, and other factors (e.g., soil moisture). These factors were not considered, but can affect ozone damage.<sup>19</sup>

Source: EPA, 2008.

\* Areas with more than 2 percent biomass loss are defined here as significant based on a consensus workshop on ozone effects, which reported that a 2 percent annual biomass loss causes harm because of the potential for compounding effects over multiple years as short-term negative effects on seedlings affect long-term forest health.<sup>20</sup>



CAIR, in conjunction with federal, state, and local efforts, **would help to further address the ozone air quality issues in the East.**





# Section 5

## Clean Air Interstate Rule (CAIR)

The NBP and other emission control programs have significantly reduced NO<sub>x</sub> emissions from the power sector, and many areas in the eastern United States have experienced decreasing ozone concentrations as a result. Other sources of NO<sub>x</sub> and VOCs, many of which are controlled under other federal, state, and local programs, are responsible for the remaining ozone-related air quality issues. Nevertheless, the power sector remains a large contributor of ozone precursor pollutants. CAIR expanded the scope of the NBP by increasing geographic coverage and by limiting NO<sub>x</sub> on both an annual and ozone season basis to control ozone and fine particulates (PM<sub>2.5</sub>). In conjunction with other federal, state, and local efforts, CAIR would decrease ground-level ozone and improve air quality in the eastern United States. However, a recent court decision vacating CAIR has created uncertainty regarding whether CAIR, and the reductions it would have achieved, will be implemented.

### 2008 Court Decision to Vacate CAIR

On July 11, 2008, the U.S. Court of Appeals for the District of Columbia Circuit issued a ruling on the petitions for review of CAIR. The court vacated CAIR and the associated federal implementation plan in its entirety, and sent both the rule and plan back to EPA for review.

EPA is disappointed that the court rejected the rule and the significant air quality improvements it would have achieved. On September 24, 2008, EPA filed a petition for rehearing of the court decision and will determine an appropriate future

course of action once the court responds to the petition. In the meantime, EPA is working with states to continue the NBP if the CAIR program is not in effect in May 2009.

### CAIR Overview

Building on the emission reductions under the NBP and the ARP, CAIR was issued on March 10, 2005. The rule, as promulgated, was designed to permanently lower emissions of SO<sub>2</sub> and NO<sub>x</sub> in the eastern United States. In addition to helping states address ozone nonattainment, CAIR would assist states in attaining the NAAQS for PM<sub>2.5</sub> by reducing transported precursors, SO<sub>2</sub> and NO<sub>x</sub>. CAIR would also improve visibility in Class 1 areas, including national parks, monuments, and wilderness areas. CAIR would accomplish this by creating three separate compliance programs: an annual NO<sub>x</sub> program, an ozone season NO<sub>x</sub> program, and an annual SO<sub>2</sub> program.

Each of the three programs would use a two-phased approach, with declining emission caps in each phase based on highly cost-effective controls on power plants. The first phase would begin in 2009 for the NO<sub>x</sub> annual and NO<sub>x</sub> ozone season programs, and in 2010 for the SO<sub>2</sub> annual program. The second phase for all three programs would begin in 2015. Similar to the NO<sub>x</sub> SIP Call, CAIR gave affected states NO<sub>x</sub> emission budgets and the flexibility in their state implementation plans (SIPs) to reduce emissions using a strategy that best suits their circumstances, including EPA-administered, regional cap and trade programs as one option.

The CAIR trading programs went into effect in June 2006 as federal implementation plans (FIPs) that EPA issued to serve as a backstop until CAIR SIP revisions were approved. The FIPs, as promulgated, gave EPA authority to distribute the state's NO<sub>x</sub> allocations of allowances, and required affected EGUs to comply with future requirement deadlines. Most states submitted SIPs and received EPA approval for participation in the CAIR programs. Some of these approved plans are complete rules that replace the federal program in that state. Other plans only modify portions of the federal program—most notably the NO<sub>x</sub> allowance allocation methodology.

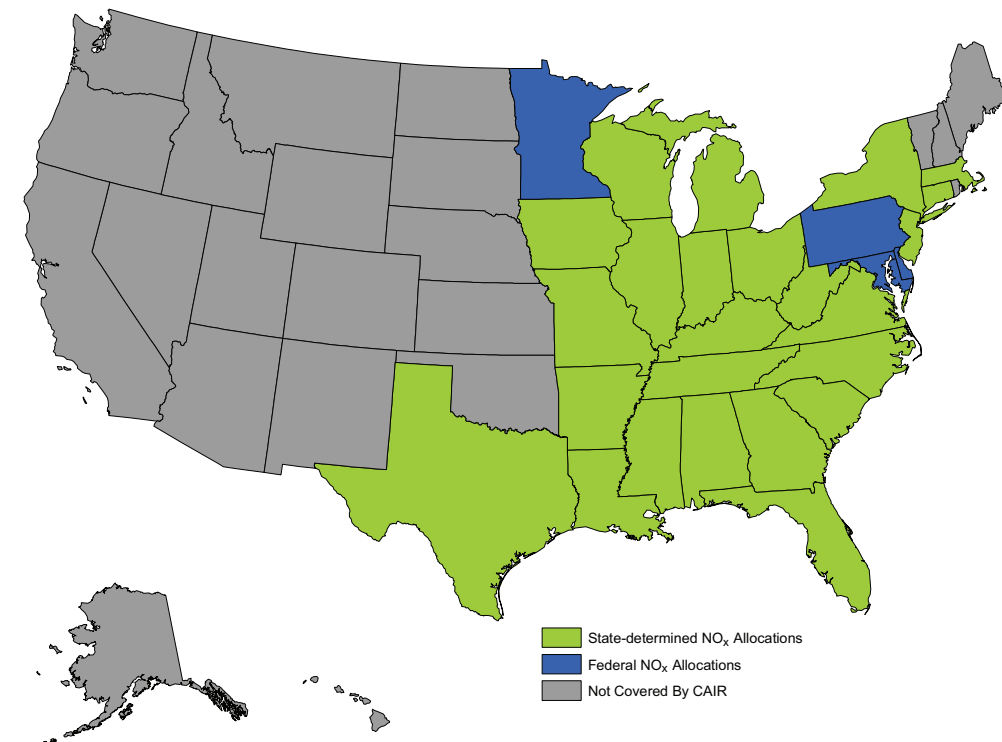
All 28 states and the District of Columbia opted to be part of the EPA-administered regional CAIR trading programs. Allocations that total the state budget are made to sources by EPA under the federal program or the CAIR SIP program. Once a state has an approved SIP, the state designates to EPA which sources receive allocations. As of the court vacatur of CAIR in July 2008, EPA had ap-

proved SIPs for 24 states, allowing the use of the states' NO<sub>x</sub> allocations (see Figure 32). Four states (Delaware, Maryland, Minnesota, and Pennsylvania) and the District of Columbia had chosen to leave the federal implementation plan in place and had received federal NO<sub>x</sub> allocations for 2009. The overall state emission budgets are the same under the federal and state implementation plans. Monitoring and reporting according to EPA's stringent regulations for the NO<sub>x</sub> programs began in 2008; monitoring and reporting for SO<sub>2</sub> would begin in 2009.

### How CAIR Affects NBP States

Under the CAIR rule, as promulgated, NBP states affected by CAIR ozone season requirements would transition to the CAIR ozone season program in 2009. All NBP states, except Rhode Island, are included in the CAIR NO<sub>x</sub> ozone season program (see Figure 33). In addition, most NBP states (except Rhode Island, Massachusetts, and Connecti-

Figure 32: CAIR NO<sub>x</sub> Allocation Status



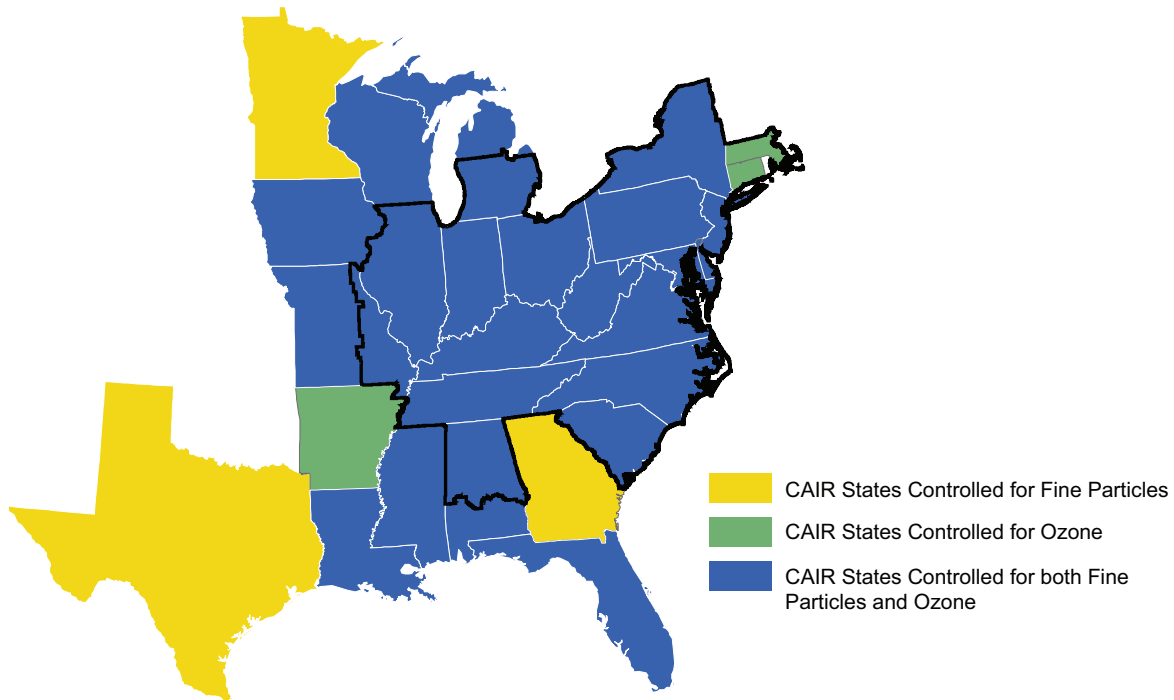
Source: EPA, 2008.

cut) are also subject to emission reductions under the CAIR annual NO<sub>x</sub> programs to help states attain the NAAQS for PM<sub>2.5</sub>. States would be able to meet their NO<sub>x</sub> SIP Call obligations using the CAIR NO<sub>x</sub> ozone season trading program and, as a result, CAIR would allow states to include all of their NBP sources in the CAIR NO<sub>x</sub> ozone season program (even if they would not otherwise be affected by CAIR). Most states (except Delaware, Illinois, Maryland, New Jersey, and Pennsylvania) intended to use this flexibility. Thus, under CAIR, these five states would need to pursue another strategy to meet their NBP reduction requirements from those sources. The CAIR rule has a provision that would allow Rhode Island to be part of the CAIR NO<sub>x</sub> ozone season trading program so that it can continue to participate in an interstate trading program. As of October 2008, however, Rhode Island has not indicated that it would join that trading program.

The 2009 CAIR NO<sub>x</sub> ozone season emission cap for EGUs would be at least as stringent as the NBP, and in some states would be tighter. The trading budget for any NBP state that includes its industrial units under CAIR would remain the same for those units as it was in the NBP. CAIR would also allow sources to bank and use pre-2009 NBP allowances for CAIR NO<sub>x</sub> ozone season program compliance on a 1:1 basis, thereby giving sources in those states the incentive to begin reducing their emissions sooner.

Furthermore, sources outside of the NBP region could buy and use pre-2009 NBP allowances in the CAIR NO<sub>x</sub> ozone season trading program. In addition, progressive flow control would be eliminated as of 2009 with the start of the CAIR NO<sub>x</sub> ozone season program. Finally, NBP sources that do not have enough allowances in their accounts at the end of the reconciliation period to cover their 2008 ozone season emissions would be required to surrender 2009 CAIR allowances at a 3:1 ratio to be in compliance.

Figure 33: Transition from the NBP to CAIR



Note: States in the NBP region are shown inside the black boundary line.

Source: EPA, 2008.



# References

1. Dawson, J. P., Adams, P. J., & Pandis, S.N. 2007. Sensitivity of ozone to summertime climate in the Eastern USA: A modeling case study. *Atmospheric Environment*, 41:7, 1494-1511.  
Tao, Z., Williams, A., Huang, H.C., Caughey, M., & Liang, X.-Z. 2007. Sensitivity of U.S. surface ozone to future emissions and climate changes. *Geophysical Research Letters*, 34, L08811.  
Liao, K.-J., Tagaris, E., Manomaiphiboon, K., Napelenok, S.L., Woo, J.-H., He, S., Amar, P., & Russell, A.G. 2007. Sensitivities of ozone and fine particulate matter formation to emissions under the impact of potential future climate change. *Environmental Science and Technology*, 41, 8355-8361.  
Nolte, C.G., Gilliland, A.B., Hogrefe, C., & Mickley, L.J. 2008. Linking global to regional models to assess future climate impacts on surface ozone levels in the United States. *Journal of Geophysical Research*, 113, D14307, doi:10.1029/2007JD008497.  
Wu, S., Mickley, L.J., Leibensperger, E.M., Jacob, D.J., Rind, D., & Streets, D. 2008. Effects of 2000-2050 global change on ozone air quality in the United States. *Journal of Geophysical Research*, 113, D06302, doi:10.1029/2007JD008917.
2. U.S. EPA. 2006. Air Quality Criteria for Ozone and Related Photochemical Oxidants (Final). U.S. EPA. Washington, DC. EPA 600/R-05/004aF-cF. 2006. This document is available in Docket EPA HQ-OAR-2003-0190. and online at <[http://www.epa.gov/ttn/naaqs/standards/ozone/s\\_o3\\_cr\\_cd.html](http://www.epa.gov/ttn/naaqs/standards/ozone/s_o3_cr_cd.html)>.  
U.S. EPA. 2007. Review of the National Ambient Air Quality Standards for Ozone, Policy Assessment of Scientific and Technical Information. OAQPS Staff Paper. EPA-452/R-07-003. This document is available in Docket EPA-HQ-OAR-2003-0190 and online at <[http://www.epa.gov/ttn/naaqs/standards/ozone/s\\_o3\\_cr\\_sp.html](http://www.epa.gov/ttn/naaqs/standards/ozone/s_o3_cr_sp.html)>.
3. Martin, K.C., Joskow, P.L., & Ellerman, A.D. 2007. "Time and location differentiated NO<sub>x</sub> control in competitive electricity markets using cap-and-trade mechanisms." WP-2007-004. Massachusetts Institute of Technology Center for Energy and Environmental Policy Research. Available online at <<http://web.mit.edu/ceepr/www/publications/workingpapers.html>>.
4. Gilliland, A.B., Hogrefe, C., Pinder, R.W., Godowitch, J.M., Foley, K.L., & Rao, S.T. 2008. Dynamic evaluation of regional air quality models: Assessing changes in O<sub>3</sub> stemming from changes in emissions and meteorology. *Atmospheric Environment*. 42:20, 5110-5123.  
Godowitch, J., Gilliland, A.B., Draxter, R.R., & Rao, S.T. 2008. Modeling assessment of point source NO<sub>x</sub> emission reduction on ozone air quality in the eastern United States. *Atmospheric Environment*. 42:1, 87-100.  
Kim, S.W., Heckel, A., McKeen, S.A., Frost, G.J., Hsie, E.Y., Trainer, M.K., Richtec, A., Burrows, J.P., Peckham, S.E., & Grell, G.A. 2006. Satellite-observed U.S. power plant NO<sub>x</sub> emission reductions and their impact on air quality. *Geophysical Research Letters*, 33, L22812.
5. International Panel on Climate Change (TAR & AR4)  
<[www.ipcc.ch/ipccreports/assessments-reports.htm](http://www.ipcc.ch/ipccreports/assessments-reports.htm)>.
6. Lin, C.-Y.C., Jacob, D.J., Munger, J.W., & Fiore, A.M. 2000. Increasing background ozone in surface air over the United States. *Geophysical Research Letters*, 27, 3465-3468.
7. Ibid.

## References

8. Seinfeld, J.H. & Pandis, S.N. 1998. *Atmospheric Chemistry and Physics*. John Wiley and Sons, Inc. New York.
9. Cox, W. M. & Chu, S.-H. 1996. Assessment of interannual ozone variation in urban areas from a climatological perspective. *Atmospheric Environment*, 30:16, 2615-2625.  
  
Camalier, L., Cox, W.M. & Dolwick, P. 2007. The effects of meteorology on ozone in urban areas and their use in assessing ozone trends. *Atmospheric Environment* 41:33, 7127-7137.
10. Godowitch, J.M., Hogfrefe, C., & Rao, S.T. 2008. Diagnostic analyses of a regional air quality model: Changes in modeled processes affecting ozone and chemical-transport indicators from NO<sub>x</sub> point source emission reductions. *Journal of Geophysical Research*, 113, D19303, doi:10.1029/2007JD009537.
11. Nguyen, D. & Woodman, M. 2008. Air quality variability in Maryland due to climate cycles and emissions. Presented to National Air Quality Conference in Portland, OR, by Maryland Department of the Environment/Air and Radiation Management Administration, Baltimore, MD, April. <[http://www.epa.gov/airnow/2008conference/Forecasting/Tuesday/nguyen\\_aqvariability.pdf](http://www.epa.gov/airnow/2008conference/Forecasting/Tuesday/nguyen_aqvariability.pdf)>
12. Hains, J.C., Taubman, B.F., Thompson, A.M., Marufu, L.T., Stehr, J.W., Doddridge, B.G., & Dickerson, R.R. 2007. A clustering methodology to identify distinct chemical events in the troposphere using aircraft trace gas and aerosol vertical profiles. *Journal of Geophysical Research*, doi:10.1029/2006JD008843.
13. Nguyen & Woodman. 2008.
14. 40 CFR Part 81. Air quality designations and classification for the 8-hour ozone national ambient air quality standards (NAAQS).
15. U.S. Census. 2000.
16. U.S. EPA. 2007.
17. Chappelka, A.H. & Samuelson, L.J. 1998. Ambient ozone effects on forest trees of the eastern United States: A review. *New Phytologist* 139, 91-108.
18. Prasad, A. M. & Iverson, L. R. 2003. Little's range and FIA importance value database for 135 eastern U.S. tree species. <<http://www.fs.fed.us/ne/delaware/4153/global/littlefia/index.html>>, Northeastern Research Station, USDA Forest Service.
19. Chappelka & Samuelson. 1998.
20. Heck, W. W. & Cowling E. B. 1997. The need for a long term cumulative secondary ozone standard-an ecological perspective. *Environmental Management*, January, 23-33.

# Online Resources

## General Information

- Office of Air and Radiation:  
<[www.epa.gov/oar](http://www.epa.gov/oar)>
- Office of Atmospheric Programs:  
<[www.epa.gov/air/oap.html](http://www.epa.gov/air/oap.html)>
- Office of Air Quality Planning and Standards:  
<[www.epa.gov/oar/oaqps](http://www.epa.gov/oar/oaqps)>
- Office of Transportation and Air Quality (mobile sources):  
<[www.epa.gov/otaq](http://www.epa.gov/otaq)>
- Cap and Trade and Related Programs:  
<[www.epa.gov/airmarkets](http://www.epa.gov/airmarkets)>
- Air Trends:  
<[www.epa.gov/airtrends](http://www.epa.gov/airtrends)>

## NO<sub>x</sub> Control Programs

- Acid Rain Program (ARP):  
<[www.epa.gov/airmarkets/progsregs/arp/index.html](http://www.epa.gov/airmarkets/progsregs/arp/index.html)>
- Ozone Transport Commission (OTC) NO<sub>x</sub> Budget Program:  
<[www.epa.gov/airmarkets/progsregs/nox/otc.html](http://www.epa.gov/airmarkets/progsregs/nox/otc.html)>
- NO<sub>x</sub> Budget Trading Program (NBP):  
<[www.epa.gov/airmarkets/progsregs/nox/sip.html](http://www.epa.gov/airmarkets/progsregs/nox/sip.html)>
- Clean Air Interstate Rule (CAIR):  
<[www.epa.gov/cair](http://www.epa.gov/cair)>

## Ozone Information

- General Information:  
<[www.epa.gov/ozonepollution/](http://www.epa.gov/ozonepollution/)>
- U.S. Department of Agriculture (USDA) Forest Service, Forest Health Monitoring Program:  
<<http://fhm.fs.fed.us/index.shtm>>

## Emission Data and Monitoring Information

- National Emissions Inventory (NEI):  
<[www.epa.gov/ttn/chief/trends](http://www.epa.gov/ttn/chief/trends)>
- Clean Air Markets Data and Maps:  
<<http://camddataandmaps.epa.gov/gdm>>

## Ozone Monitoring Networks and Data

- Clean Air Status and Trends Network (CASTNET):  
<[www.epa.gov/castnet](http://www.epa.gov/castnet)>
- Air Quality System (AQS):  
<[www.epa.gov/ttn/airs/airsaqs](http://www.epa.gov/ttn/airs/airsaqs)>

## Other Emission and Air Quality Resources

- General Information on EPA Air Quality Monitoring Networks:  
<[www.epa.gov/ttn/amtic](http://www.epa.gov/ttn/amtic)>
- Clean Air Mapping and Analysis Program (CMAP):  
<[www.epa.gov/airmarkets/maps/c-map.html](http://www.epa.gov/airmarkets/maps/c-map.html)>
- The Emissions and Generation Resource Integrated Database (eGRID):  
<[www.epa.gov/cleanenergy/egrid](http://www.epa.gov/cleanenergy/egrid)>
- AIRNow:  
<[www.epa.gov/airnow](http://www.epa.gov/airnow)>

# Appendices

## Appendix A: List of Acronyms

AQI	Air Quality Index
AQS	Air Quality System
ARP	Acid Rain Program
CAIR	Clean Air Interstate Rule
CASTNET	Clean Air Status and Trends Network
CEMS	continuous emission monitoring systems
CFR	Code of Federal Regulations
C-R	concentration-response
DC	District of Columbia
EGU	electric generating unit
EPA	United States Environmental Protection Agency
FIA	Forest Inventory and Analysis
FIP	federal implementation plan
HNO <sub>3</sub>	nitric acid
lb	pound
MACT	Maximum Achievable Control Technology
MIT	Massachusetts Institute of Technology
mmBtu	million British thermal units
MSAT	Mobile Source Air Toxics
MY	model year
N <sub>2</sub>	nitrogen
NAAQS	National Ambient Air Quality Standard
NATS	NO <sub>x</sub> Allowance Tracking System
NBP	NO <sub>x</sub> Budget Trading Program
NEI	National Emissions Inventory
NH <sub>3</sub>	ammonia
NO	nitric oxide
NO <sub>2</sub>	nitrogen dioxide
NO <sub>3</sub> <sup>-</sup>	particulate nitrate
NO <sub>x</sub>	nitrogen oxides
NSPS	New Source Performance Standards
OAQPS	Office of Air Quality Planning and Standards
OED	ozone exceedance days
OTC	Ozone Transport Commission
PM <sub>2.5</sub>	particulate matter smaller than 2.5 micrometers in diameter
ppb	parts per billion
ppm	parts per million
RACT	Reasonably Available Control Technology
SCR	selective catalytic reduction
SIP	state implementation plan
SNCR	selective noncatalytic reduction
SO <sub>2</sub>	sulfur dioxide
USDA	United States Department of Agriculture
VOC	volatile organic compound



## Appendix B: Ozone Season NO<sub>x</sub> Emissions from All NBP Electric Generating Units (EGUs), 1990–2007

State	1990	2000	2003	2004	2005	2006	2007
AL	78,904	79,173	48,079	38,596	31,981	25,786	27,313
CT	10,836	4,521	1,939	2,006	2,836	2,376	2,062
DC	497	134	54	19	270	95	51
DE	12,918	5,005	4,064	3,820	5,367	3,732	4,403
IL	114,409	100,811	43,237	36,190	34,051	33,042	33,446
IN	196,192	133,493	94,336	63,683	52,708	51,245	52,330
KY	147,573	101,561	62,881	40,304	36,635	37,400	40,119
MA	39,941	13,378	9,075	7,314	8,072	5,294	3,567
MD	51,358	27,729	18,311	18,981	20,089	17,534	15,538
MI	105,496	77,050	44,894	39,331	41,616	39,835	33,886
MO	61,889	33,966	29,407	16,190	18,809	15,914	12,959
NC	78,743	70,593	51,943	37,536	30,695	28,745	26,801
NJ	42,339	13,524	10,446	10,226	10,835	8,333	7,479
NY	78,734	38,762	28,736	28,118	30,832	21,113	19,422
OH	221,460	155,731	130,054	64,809	51,877	50,474	55,633
PA	192,373	84,075	48,596	49,251	48,401	50,439	55,102
RI	1,099	288	209	177	253	181	187
SC	41,800	39,083	30,569	23,184	16,218	16,285	16,706
TN	82,046	66,829	49,572	26,615	21,839	20,097	19,523
VA	31,419	39,181	29,368	23,284	20,438	18,362	20,844
WV	133,597	105,723	60,528	39,422	28,950	27,317	27,251
All NBP States	1,723,623	1,190,610	796,298	569,055	512,771	473,600	474,621

### Notes:

- Totals may not equal individual rows due to rounding. All data correspond to data as of July 1, 2008, in EPA's data systems, available through Data and Maps at <<http://camddataandmaps.epa.gov/gdm>>.
- Emissions from all NBP-affected EGU sources are shown here, including 2003 and May 2004 emissions from sources in non-OTC states that did not control emissions under the NBP during those periods. Affected non-EGUs in North Carolina did not report emissions in 2003, so the emissions for North Carolina in this appendix and in Table 3 on page 21 of this report are identical. The same issue applies for Missouri emissions in 2003–2005. The "All NBP States" sums include Missouri emissions, even though Missouri did not participate in the NBP until 2007.
- Emissions for Alabama, Michigan, and Missouri are for units in the portion of the state that became subject to the NBP in 2004 (Alabama and Michigan) and 2007 (Missouri).

### Appendix C : Annual State Budgets\*

State	2003	2004	2005	2006	2007
AL	0	34,459	25,497	25,497	25,497
CT	4,950	4,477	4,477	4,477	4,477
DC	233	233	233	233	233
DE	5,395	5,227	5,227	5,227	5,227
IL	0	53,245	35,557	35,557	35,557
IN	0	75,644	55,729	55,729	55,729
KY	0	49,744	36,224	36,224	36,109
MA	13,334	12,861	12,861	12,861	12,861
MD	19,306	15,466	15,466	15,466	15,466
MI	0	41,154	31,247	31,247	31,247
MO	0	0	0	0	19,089
NC	0	42,184	41,547	34,632	34,713
NJ	9,750	13,022	13,022	13,022	13,022
NY	44,161	41,388	41,380	41,397	41,397
OH	0	72,366	49,975	49,978	49,974
PA	66,606	50,843	50,843	50,843	50,843
RI	936	936	936	936	936
SC	0	25,022	19,678	19,678	19,678
TN	0	42,045	31,480	31,480	31,480
VA	0	26,699	21,195	21,195	21,195
WV	0	46,215	29,501	29,507	29,507
All NBP States	164,671	653,230	522,075	515,186	534,237

\* Includes base budget, compliance supplement pool, and opt-in allowances, as applicable, for a given year and state. Some states may not issue all budget allowances, and so the total budgets presented above may be higher than the total allowances allocated presented in Figure 8.

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
AL	AMEA Sylacauga Plant	56018	1	16	21	3	24	4	4	0	4	3
AL	AMEA Sylacauga Plant	56018	2	16	23	0	23	6	6	0	6	6
AL	AMEA Sylacauga Plant	56018	OVERDF	0	0	0	0					0
AL	Bowater Newsprint - Coosa Pines	54216	AOW#1	63	0	0	0	122	122	0	122	0
AL	Bowater Newsprint - Coosa Pines	54216	AOW#2	63	0	0	0	95	95	0	95	0
AL	Bowater Newsprint - Coosa Pines	54216	AOW#3	63	0	0	0	114	114	0	114	0
AL	Bowater Newsprint - Coosa Pines	54216	AOW#4	63	0	0	0	129	129	0	129	0
AL	Bowater Newsprint - Coosa Pines	54216	OVERDF	0	397	104	501					397
AL	BP Amoco Chemical Company	880075	AB4302	22	22	99	121	0	0	0	0	0
AL	BP Amoco Chemical Company	880075	AB8301	25	25	148	173	17	17	0	17	0
AL	BP Amoco Chemical Company	880075	OVERDF	0	0	0	0					0
AL	Calhoun Power Company I, LLC	55409	CT1	3	18	0	18	18	18	0	18	18
AL	Calhoun Power Company I, LLC	55409	CT2	7	18	0	18	18	18	0	18	18
AL	Calhoun Power Company I, LLC	55409	CT3	6	20	0	20	20	20	0	20	20
AL	Calhoun Power Company I, LLC	55409	CT4	2	20	0	20	20	20	0	20	20
AL	Calhoun Power Company I, LLC	55409	OVERDF	0	16	9	25					0
AL	Colbert	47	CSCO14 (1, 2, 3, 4)					4,444				
AL	Colbert	47	1	420	1,130	0	1,130		1,139	0	1,139	1,130
AL	Colbert	47	2	412	572	0	572		999	0	999	572
AL	Colbert	47	3	422	443	0	443		1,157	0	1,157	443
AL	Colbert	47	4	417	1,037	0	1,037		1,149	0	1,149	1,037
AL	Colbert	47	5	1,127	257	0	257	269	269	0	269	257
AL	Colbert	47	CCT1	3	0	0	0	0	0	0	0	0
AL	Colbert	47	CCT2	3	1	0	1	1	1	0	1	1
AL	Colbert	47	CCT3	3	1	0	1	1	1	0	1	1
AL	Colbert	47	CCT4	3	1	0	1	1	1	0	1	1
AL	Colbert	47	CCT5	3	0	0	0	0	0	0	0	0
AL	Colbert	47	CCT6	3	0	0	0	0	0	0	0	0
AL	Colbert	47	CCT7	3	0	0	0	0	0	0	0	0
AL	Colbert	47	CCT8	3	0	0	0	0	0	0	0	0
AL	Colbert	47	OVERDF	0	0	4,209	4,209					0
AL	Decatur Energy Center	55292	CTG-1	12	3	27	30	18	18	0	18	2
AL	Decatur Energy Center	55292	CTG-2	13	1	25	26	12	12	0	12	0
AL	Decatur Energy Center	55292	CTG-3	7	4	29	33	20	20	0	20	2
AL	Decatur Energy Center	55292	OVERDF	0	0	0	0					0
AL	Discover	55138	1A	8	8	44	52	3	3	0	3	3
AL	Discover	55138	1B	8	8	43	51	3	3	0	3	3

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
AL	Discover	55138	2A	7	7	45	52	3	3	0	3	3
AL	Discover	55138	2B	8	8	45	53	3	3	0	3	3
AL	Discover	55138	OVERDF	0	0	0	0					0
AL	E B Harris Generating Plant	7897	1A	12	26	15	41	26	26	0	26	26
AL	E B Harris Generating Plant	7897	1B	12	25	14	39	25	25	0	25	25
AL	E B Harris Generating Plant	7897	2A	6	25	15	40	25	25	0	25	25
AL	E B Harris Generating Plant	7897	2B	6	22	17	39	21	21	0	21	21
AL	E B Harris Generating Plant	7897	OVERDF	0	15	23	38					0
AL	E C Gaston	26	CS0CAN (1, 2)					2,465				
AL	E C Gaston	26	1	635	1,291	1	1,292		1,291	0	1,291	1,291
AL	E C Gaston	26	2	639	1,175	2	1,177		1,174	0	1,174	1,174
AL	E C Gaston	26	CS0CBN (3, 4)					2,531				
AL	E C Gaston	26	3	635	1,401	0	1,401		1,401	0	1,401	1,401
AL	E C Gaston	26	4	601	1,131	1	1,132		1,130	0	1,130	1,130
AL	E C Gaston	26	5	2,163	1,020	150	1,170	1,020	1,020	0	1,020	1,020
AL	E C Gaston	26	OVERDF	0	268	459	727					0
AL	Gadsden	7	1	151	457	0	457	457	457	0	457	457
AL	Gadsden	7	2	124	357	0	357	357	357	0	357	357
AL	Gadsden	7	OVERDF	0	100	171	271					0
AL	Gorgas	8	10	1,946	1,062	0	1,062	1,062	1,062	0	1,062	1,062
AL	Gorgas	8	CS0DAN (6, 7)					1,102				
AL	Gorgas	8	6	292	573	0	573		573	0	573	573
AL	Gorgas	8	7	276	529	0	529		529	0	529	529
AL	Gorgas	8	8	385	971	0	971	971	971	0	971	971
AL	Gorgas	8	9	377	817	0	817	817	817	0	817	817
AL	Gorgas	8	OVERDF	0	381	396	777					0
AL	Greene County	10	1	654	1,127	7	1,134	1,127	1,127	0	1,127	1,127
AL	Greene County	10	2	651	1,513	4	1,517	1,513	1,513	0	1,513	1,513
AL	Greene County	10	CT10	14	11	34	45	11	11	0	11	11
AL	Greene County	10	CT2	16	20	30	50	20	20	0	20	20
AL	Greene County	10	CT3	15	17	31	48	17	17	0	17	17
AL	Greene County	10	CT4	14	14	31	45	14	14	0	14	14
AL	Greene County	10	CT5	13	10	36	46	10	10	0	10	10
AL	Greene County	10	CT6	13	13	34	47	13	13	0	13	13
AL	Greene County	10	CT7	15	11	33	44	11	11	0	11	11
AL	Greene County	10	CT8	17	9	38	47	9	9	0	9	9
AL	Greene County	10	CT9	15	9	38	47	9	9	0	9	9
AL	Greene County	10	OVERDF	0	269	553	822					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
AL	International Paper-Courtland Mill	50245	GTX017	117	14	5	19	11	11	0	11	11
AL	International Paper-Courtland Mill	50245	PBX007	28	8	1	9	5	5	0	5	5
AL	International Paper-Courtland Mill	50245	OVERDF	0	0	0	0					0
AL	International Paper-Prattville Mill	52140	Z006	108	125	1	126	124	124	0	124	124
AL	International Paper-Prattville Mill	52140	Z008	169	408	0	408	408	408	0	408	408
AL	International Paper-Prattville Mill	52140	OVERDF	0	10	20	30					0
AL	International Paper-Riverdale Mill	54096	X026	77	9	4	13	7	7	0	7	7
AL	International Paper-Riverdale Mill	54096	Z007	21	33	3	36	31	31	0	31	31
AL	International Paper-Riverdale Mill	54096	OVERDF	0	0	0	0					0
AL	James H Miller Jr	6002	1	1,834	904	21	925	904	904	0	904	904
AL	James H Miller Jr	6002	2	1,867	863	150	1,013	861	861	0	861	861
AL	James H Miller Jr	6002	3	1,925	873	602	1,475	873	873	0	873	873
AL	James H Miller Jr	6002	4	1,798	802	176	978	802	802	0	802	802
AL	James H Miller Jr	6002	OVERDF	0	542	1,327	1,869					0
AL	MeadWestvaco Coated Board, Inc.	54802	X022	50	7	1	8	6	6	0	6	6
AL	MeadWestvaco Coated Board, Inc.	54802	Z008	37	28	1	29	24	24	0	24	24
AL	MeadWestvaco Coated Board, Inc.	54802	OVERDF	0	0	0	0					0
AL	Morgan Energy Center	55293	CT-1	1	5	26	31	20	20	0	20	4
AL	Morgan Energy Center	55293	CT-2	4	13	18	31	22	22	0	22	11
AL	Morgan Energy Center	55293	CT-3	5	10	28	38	26	26	0	26	9
AL	Morgan Energy Center	55293	OVERDF	0	0	0	0					0
AL	Plant H. Allen Franklin	7710	1A	18	21	23	44	21	21	0	21	21
AL	Plant H. Allen Franklin	7710	1B	17	20	23	43	20	20	0	20	20
AL	Plant H. Allen Franklin	7710	2A	10	21	21	42	21	21	0	21	21
AL	Plant H. Allen Franklin	7710	2B	11	19	15	34	19	19	0	19	19
AL	Plant H. Allen Franklin	7710	OVERDF	0	14	0	14					0
AL	Solutia (Decatur Plant)	880041	X015	138	0	0	0	170	170	0	170	0
AL	Solutia (Decatur Plant)	880041	X053	3	0	0	0	0	0	0	0	0
AL	Solutia (Decatur Plant)	880041	CS001 (Z004, Z005, Z006)					117				
AL	Solutia (Decatur Plant)	880041	Z004	0	0	0	0		39	0	39	0
AL	Solutia (Decatur Plant)	880041	Z005	54	0	0	0		39	0	39	0
AL	Solutia (Decatur Plant)	880041	Z006	56	0	0	0		39	0	39	0
AL	Solutia (Decatur Plant)	880041	OVERDF	0	301	18	319					287
AL	Tenaska Central Alabama Gen Station	55440	CTGDB1	8	8	0	8	14	14	0	14	8
AL	Tenaska Central Alabama Gen Station	55440	CTGDB2	8	8	0	8	13	13	0	13	8
AL	Tenaska Central Alabama Gen Station	55440	CTGDB3	8	8	0	8	10	10	0	10	8
AL	Tenaska Central Alabama Gen Station	55440	OVERDF	0	0	133	133					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
AL	Tenaska Lindsay Hill	55271	CT1	13	15	0	15	14	14	0	14	14
AL	Tenaska Lindsay Hill	55271	CT2	16	10	0	10	10	10	0	10	10
AL	Tenaska Lindsay Hill	55271	CT3	11	11	0	11	9	9	0	9	9
AL	Tenaska Lindsay Hill	55271	OVERDF	0	0	0	0					0
AL	US Steel (Fairfield Works)	50730	206	14	1	0	1	0	0	0	0	0
AL	US Steel (Fairfield Works)	50730	208	20	6	0	6	5	5	0	5	5
AL	US Steel (Fairfield Works)	50730	209	143	21	0	21	21	21	0	21	21
AL	US Steel (Fairfield Works)	50730	210	138	26	0	26	25	25	0	25	25
AL	US Steel (Fairfield Works)	50730	OVERDF	0	0	0	0					0
AL	Widows Creek	50	CSWC16 (1, 2, 3, 4, 5, 6)					4,456				
AL	Widows Creek	50	1	279	699	0	699		707	0	707	699
AL	Widows Creek	50	2	282	707	0	707		714	0	714	707
AL	Widows Creek	50	3	315	605	0	605		696	0	696	605
AL	Widows Creek	50	4	268	268	0	268		844	0	844	268
AL	Widows Creek	50	5	272	602	0	602		651	0	651	602
AL	Widows Creek	50	6	271	271	0	271		844	0	844	271
AL	Widows Creek	50	7	1,086	376	0	376	385	385	0	385	376
AL	Widows Creek	50	8	1,066	311	0	311	315	315	0	315	311
AL	Widows Creek	50	OVERDF	0	0	3,308	3,308					0
CT	AES Thames	10675	CS01 (UNITA, UNITB)					223				
CT	AES Thames	10675	UNITA	95	118	0	118		115	0	115	115
CT	AES Thames	10675	UNITB	91	108	0	108		108	0	108	108
CT	AES Thames	10675	OVERDF	0	0	0	0					0
<b>CT</b>	<b>Alfred L Pierce Generating Station<sup>1</sup></b>	<b>6635</b>	<b>AP-1</b>	<b>2</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>9</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>4</b>
CT	Algonquin Power Windsor Locks, LLC	10567	GT1	118	118	38	156	107	107	0	107	107
CT	Branford	540	10	0	3	0	3	2	2	0	2	2
CT	Bridgeport Energy	55042	BE1	45	45	1	46	43	43	0	43	43
CT	Bridgeport Energy	55042	BE2	44	44	0	44	42	42	0	42	42
CT	Bridgeport Energy	55042	OVERDF	0	0	0	0					0
CT	Bridgeport Harbor Station	568	BHB1	0	0	0	0	0	0	0	0	0
CT	Bridgeport Harbor Station	568	BHB2	21	33	0	33	33	33	0	33	33
CT	Bridgeport Harbor Station	568	BHB3	2,036	836	145	981	898	898	0	898	836
CT	Bridgeport Harbor Station	568	BHB4	0	0	2	2	1	1	0	1	0
CT	Bridgeport Harbor Station	568	OVERDF	0	0	15	15					0
CT	Capitol District Energy Center	50498	GT	6	6	36	42	10	10	0	10	6
CT	Cascades Boxboard Group-Connecticut LLC	54657	1	77	77	88	165	52	52	0	52	52

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
CT	Cos Cob	542	10	1	1	0	1	5	5	0	5	1
CT	Cos Cob	542	11	1	1	0	1	2	2	0	2	1
CT	Cos Cob	542	12	1	1	0	1	4	4	0	4	1
CT	Cos Cob	542	OVERDF	0	43	2	45					8
CT	Devon	544	10	0	0	0	0	6	6	0	6	0
CT	Devon	544	11	2	2	0	2	1	1	0	1	1
CT	Devon	544	12	2	2	0	2	1	1	0	1	1
CT	Devon	544	13	2	2	0	2	1	1	0	1	1
CT	Devon	544	14	3	3	0	3	1	1	0	1	1
CT	Devon	544	CS0001 (7, 8)					0				
CT	Devon	544	7	0	0	0	0		0	0	0	0
CT	Devon	544	8	0	0	0	0		0	0	0	0
CT	Devon	544	OVERDF	0	15	1	16					6
CT	Franklin Drive	561	10	0	8	0	8	7	7	0	7	7
CT	Lake Road Generating Company	55149	LRG1	9	13	0	13	11	11	0	11	11
CT	Lake Road Generating Company	55149	LRG2	16	14	0	14	11	11	0	11	11
CT	Lake Road Generating Company	55149	LRG3	16	14	0	14	11	11	0	11	11
CT	Lake Road Generating Company	55149	OVERDF	0	0	18	18					0
CT	Middletown	562	10	0	0	0	0	23	23	0	23	0
CT	Middletown	562	2	168	168	129	297	55	55	0	55	55
CT	Middletown	562	3	342	342	111	453	121	121	0	121	121
CT	Middletown	562	4	165	165	40	205	17	17	0	17	17
CT	Middletown	562	OVERDF	0	0	210	210					0
CT	Milford Power Company LLC	55126	CT01	16	16	0	16	22	22	0	22	16
CT	Milford Power Company LLC	55126	CT02	19	17	4	21	17	17	0	17	17
CT	Milford Power Company LLC	55126	OVERDF	0	2	17	19					2
CT	Montville	546	5	71	71	44	115	7	7	0	7	7
CT	Montville	546	6	162	162	101	263	20	20	0	20	20
CT	Montville	546	OVERDF	0	0	203	203					0
CT	New Haven Harbor	6156	NHB1	425	425	2	427	171	171	0	171	171
CT	Norwalk Harbor Station	548	CS0001 (1, 2)					136				
CT	Norwalk Harbor Station	548	1	183	0	0	0		68	0	68	0
CT	Norwalk Harbor Station	548	10	0	0	0	0	2	2	0	2	0
CT	Norwalk Harbor Station	548	2	242	0	0	0		68	0	68	0
CT	Norwalk Harbor Station	548	OVERDF	0	350	14	364					138
CT	Norwich	880022	TRBINE	1	1	2	3	1	1	0	1	1
CT	Pfizer	54236	5	44	34	24	58	19	19	0	19	13
CT	Pfizer	54236	8	12	22	18	40	12	12	0	12	12

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
CT	Pfizer	54236	OVERDF	0	0	10	10					0
CT	Pratt & Whitney, East Hartford	54605	001	9	9	20	29	8	8	0	8	3
CT	South Meadow Station	563	11A	1	2	0	2	2	2	0	2	2
CT	South Meadow Station	563	11B	1	2	0	2	2	2	0	2	2
CT	South Meadow Station	563	12A	1	5	1	6	4	4	0	4	4
CT	South Meadow Station	563	12B	1	4	2	6	4	4	0	4	4
CT	South Meadow Station	563	13A	1	6	1	7	6	6	0	6	6
CT	South Meadow Station	563	13B	1	6	1	7	6	6	0	6	6
CT	South Meadow Station	563	14A	1	3	0	3	3	3	0	3	3
CT	South Meadow Station	563	14B	1	1	4	5	3	3	0	3	1
CT	South Meadow Station	563	OVERDF	0	1	2	3					0
CT	Torrington Terminal	565	10	0	6	0	6	5	5	0	5	5
CT	Tunnel	557	10	2	9	26	35	1	1	0	1	1
CT	Wallingford Energy	55517	CT01	1	1	0	1	1	1	0	1	1
CT	Wallingford Energy	55517	CT02	1	1	0	1	1	1	0	1	1
CT	Wallingford Energy	55517	CT03	1	1	0	1	1	1	0	1	1
CT	Wallingford Energy	55517	CT04	1	1	0	1	1	1	0	1	1
CT	Wallingford Energy	55517	CT05	1	1	0	1	1	1	0	1	1
CT	Wallingford Energy	55517	OVERDF	0	2	0	2					0
CT	Waterside Power, LLC	56189	4	1	1	0	1	1	1	0	1	1
CT	Waterside Power, LLC	56189	5	2	2	0	2	1	1	0	1	1
CT	Waterside Power, LLC	56189	7	1	1	0	1	1	1	0	1	1
CT	Waterside Power, LLC	56189	OVERDF	0	0	0	0					0
DC	Benning	603	15	80	80	172	252	6	6	0	6	6
DC	Benning	603	16	117	117	309	426	46	46	0	46	46
DC	Benning	603	OVERDF	0	0	0	0					0
DC	GSA Central Heating	880004	3	0	0	0	0	0	0	0	0	0
DC	GSA Central Heating	880004	4	0	0	0	0	12	12	0	12	0
DC	GSA Central Heating	880004	5C	0	0	0	0	12	12	0	12	0
DC	GSA Central Heating	880004	OVERDF	0	25	35	60					24
DE	Christiana Substation	591	11	5	2	0	2	1	1	0	1	1
DE	Christiana Substation	591	14	6	2	0	2	1	1	0	1	1
DE	Christiana Substation	591	OVERDF	0	0	0	0					0
DE	Delaware City	592	10	5	2	0	2	1	1	0	1	1
DE	Delaware City Refinery	52193	21H701	97	0	0	0	26	26	0	26	0
DE	Delaware City Refinery	52193	37H1	116	0	0	0	47	47	0	47	0
DE	Delaware City Refinery	52193	41H1	119	0	0	0	0	0	0	0	0
DE	Delaware City Refinery	52193	42H123	145	0	0	0	72	72	0	72	0



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
DE	Delaware City Refinery	52193	CATCOB	146	0	414	414	306	306	0	306	0
DE	Delaware City Refinery	52193	COKCOB	123	0	188	188	224	224	0	224	0
DE	Delaware City Refinery	52193	DCPP1	160	0	0	0	84	84	0	84	0
DE	Delaware City Refinery	52193	DCPP2	159	0	0	0	15	15	0	15	0
DE	Delaware City Refinery	52193	DCPP3	162	0	0	0	88	88	0	88	0
DE	Delaware City Refinery	52193	DCPP4	144	0	0	0	85	85	0	85	0
DE	Delaware City Refinery	52193	MECCU1	0	0	0	0	33	33	0	33	0
DE	Delaware City Refinery	52193	MECCU2	0	0	0	0	71	71	0	71	0
DE	Delaware City Refinery	52193	OVERDF	0	1,389	0	1,389					677
DE	Edge Moor	593	10	4	1	0	1	0	0	0	0	0
DE	Edge Moor	593	3	234	200	0	200	196	196	0	196	196
DE	Edge Moor	593	4	400	662	0	662	654	654	0	654	654
DE	Edge Moor	593	5	601	191	0	191	187	187	0	187	187
DE	Edge Moor	593	OVERDF	0	0	0	0					0
DE	Hay Road	7153	**3	184	39	0	39	37	37	0	37	37
DE	Hay Road	7153	1	227	45	0	45	43	43	0	43	43
DE	Hay Road	7153	2	215	52	0	52	50	50	0	50	50
DE	Hay Road	7153	5	0	11	0	11	10	10	0	10	10
DE	Hay Road	7153	6	0	9	0	9	8	8	0	8	8
DE	Hay Road	7153	7	0	15	0	15	14	14	0	14	14
DE	Hay Road	7153	OVERDF	0	0	0	0					0
DE	Indian River	594	1	187	187	0	187	518	518	0	518	187
DE	Indian River	594	10	14	14	0	14	1	1	0	1	1
DE	Indian River	594	2	193	193	0	193	494	494	0	494	193
DE	Indian River	594	3	368	368	0	368	668	668	0	668	368
DE	Indian River	594	4	727	727	0	727	1,253	1,253	0	1,253	727
DE	Indian River	594	OVERDF	0	1,396	345	1,741					1,396
DE	McKee Run	599	1	19	3	0	3	3	3	0	3	3
DE	McKee Run	599	2	53	3	0	3	3	3	0	3	3
DE	McKee Run	599	3	119	26	0	26	26	26	0	26	26
DE	McKee Run	599	OVERDF	0	0	0	0					0
DE	NRG Energy Center Dover	10030	1	259	209	11	220	224	224	0	224	209
DE	NRG Energy Center Dover	10030	2	0	0	0	0	3	3	0	3	0
DE	NRG Energy Center Dover	10030	3	0	0	0	0	3	3	0	3	0
DE	NRG Energy Center Dover	10030	OVERDF	0	50	0	50					14
DE	Van Sant	7318	**11	7	1	1	2	1	1	0	1	1
DE	Warren F. Sam Beasley Pwr Station	7962	1	0	0	9	9	3	3	0	3	0
DE	West Substation	597	10	7	3	0	3	2	2	0	2	2

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Alsey Station	7818	ACT1	2	2	8	10	0	0	0	0	0
IL	Alsey Station	7818	ACT2	3	3	8	11	0	0	0	0	0
IL	Alsey Station	7818	ACT5	2	2	5	7	0	0	0	0	0
IL	Alsey Station	7818	OVERDF	0	0	0	0					0
IL	Archer Daniels Midland Co.	10865	CS1 (FBC1, FBC2, FBC3, FBC7)					398				
IL	Archer Daniels Midland Co.	10865	FBC1	0	0	0	0		100	0	100	0
IL	Archer Daniels Midland Co.	10865	FBC2	0	0	0	0		100	0	100	0
IL	Archer Daniels Midland Co.	10865	FBC3	0	0	0	0		100	0	100	0
IL	Archer Daniels Midland Co.	10865	CS2 (FBC4, FBC5, FBC6, GB1, GB2)					274				
IL	Archer Daniels Midland Co.	10865	FBC4	0	0	0	0		55	0	55	0
IL	Archer Daniels Midland Co.	10865	FBC5	0	0	0	0		55	0	55	0
IL	Archer Daniels Midland Co.	10865	FBC6	0	0	0	0		54	0	54	0
IL	Archer Daniels Midland Co.	10865	FBC7	0	0	0	0		98	0	98	0
IL	Archer Daniels Midland Co.	10865	FBC8	0	0	0	0	172	172	0	172	0
IL	Archer Daniels Midland Co.	10865	FBC9	0	0	0	0	144	144	0	144	0
IL	Archer Daniels Midland Co.	10865	GB1	0	0	0	0		55	0	55	0
IL	Archer Daniels Midland Co.	10865	GB2	0	0	0	0		55	0	55	0
IL	Archer Daniels Midland Co.	10865	OVERDF	1,666	988	0	988					988
IL	Archer Daniels Midland Co. - Peoria	10866	13	0	10	0	10	7	7	0	7	7
IL	Aventine Renewable Energy, Inc.	880086	UNITC	377	257	13	270	242	242	0	242	242
IL	Baldwin Energy Complex	889	1	1,087	587	7	594	525	525	0	525	525
IL	Baldwin Energy Complex	889	2	953	553	1	554	546	546	0	546	546
IL	Baldwin Energy Complex	889	3	1,247	47	2,077	2,124	923	923	0	923	47
IL	Baldwin Energy Complex	889	OVERDF	0	550	1,578	2,128					0
IL	Calumet Energy Team	55296	**1	0	0	0	0	14	14	0	14	0
IL	Calumet Energy Team	55296	**2	0	0	0	0	10	10	0	10	0
IL	Calumet Energy Team	55296	OVERDF	3	24	0	24					24
IL	Chicago Coke Co., Inc.	880096	4B	60	0	0	0	0	0	0	0	0
IL	Coffeen	861	CS0001 (01, 02)					1,207				
IL	Coffeen	861	01	545	0	2,010	2,010		457	0	457	0
IL	Coffeen	861	02	932	0	3,233	3,233		750	0	750	0
IL	Coffeen	861	OVERDF	0	25	0	25					0
IL	Cordova Energy Company	55188	1	0	0	0	0	11	11	0	11	0
IL	Cordova Energy Company	55188	2	0	0	0	0	11	11	0	11	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Cordova Energy Company	55188	OVERDF	75	25	4	29					22
IL	Corn Products International, Inc.	54556	B01	210	0	0	0	0	0	0	0	0
IL	Corn Products International, Inc.	54556	B02	210	0	0	0	0	0	0	0	0
IL	Corn Products International, Inc.	54556	B03	211	0	0	0	0	0	0	0	0
IL	Corn Products International, Inc.	54556	B04	81	0	0	0	0	0	0	0	0
IL	Corn Products International, Inc.	54556	B05	81	1	0	1	0	0	0	0	0
IL	Corn Products International, Inc.	54556	B06	55	2	0	2	0	0	0	0	0
IL	Corn Products International, Inc.	54556	B07	0	1	0	1	1	1	0	1	1
IL	Corn Products International, Inc.	54556	B10	0	224	2	226	223	223	0	223	223
IL	Corn Products International, Inc.	54556	OVERDF	0	20	9	29					0
IL	Crawford	867	7	348	348	0	348	364	364	0	364	348
IL	Crawford	867	8	454	454	0	454	622	622	0	622	454
IL	Crawford	867	OVERDF	0	186	26	212					184
IL	Crete Energy Park	55253	GT1	0	0	0	0	0	0	0	0	0
IL	Crete Energy Park	55253	GT2	0	0	0	0	0	0	0	0	0
IL	Crete Energy Park	55253	GT3	0	0	0	0	0	0	0	0	0
IL	Crete Energy Park	55253	GT4	0	0	0	0	0	0	0	0	0
IL	Crete Energy Park	55253	OVERDF	4	4	10	14					0
IL	Dallman	963	CS3132 (31, 32)					264				
IL	Dallman	963	31	138	138	0	138		132	0	132	132
IL	Dallman	963	32	183	143	0	143		132	0	132	132
IL	Dallman	963	33	442	182	0	182	178	178	0	178	178
IL	Dallman	963	OVERDF	0	0	50	50					0
IL	Duck Creek	6016	1	827	19	42	61	26	26	0	26	16
IL	E D Edwards	856	CS0001 (1, 2)					1,537				
IL	E D Edwards	856	1	229	475	0	475		475	0	475	475
IL	E D Edwards	856	2	372	1,062	0	1,062		1,062	0	1,062	1,062
IL	E D Edwards	856	3	624	488	0	488	488	488	0	488	488
IL	E D Edwards	856	OVERDF	0	8	51	59					0
IL	Elgin Energy Center	55438	CT01	0	3	0	3	3	3	0	3	3
IL	Elgin Energy Center	55438	CT02	0	3	0	3	3	3	0	3	3
IL	Elgin Energy Center	55438	CT03	0	15	0	15	15	15	0	15	15
IL	Elgin Energy Center	55438	CT04	0	3	0	3	3	3	0	3	3
IL	Elgin Energy Center	55438	OVERDF	14	10	0	10					0
IL	Elwood Energy Facility	55199	1	0	0	0	0	3	3	0	3	0
IL	Elwood Energy Facility	55199	2	0	0	0	0	8	8	0	8	0
IL	Elwood Energy Facility	55199	3	0	0	0	0	7	7	0	7	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Elwood Energy Facility	55199	4	0	0	0	0	7	7	0	7	0
IL	Elwood Energy Facility	55199	5	0	0	0	0	4	4	0	4	0
IL	Elwood Energy Facility	55199	6	0	0	0	0	5	5	0	5	0
IL	Elwood Energy Facility	55199	7	0	0	0	0	5	5	0	5	0
IL	Elwood Energy Facility	55199	8	0	0	0	0	5	5	0	5	0
IL	Elwood Energy Facility	55199	9	0	0	0	0	5	5	0	5	0
IL	Elwood Energy Facility	55199	OVERDF	134	134	86	220					49
IL	Equistar Tuscola Plant	55245	1	0	0	0	0	163	163	0	163	0
IL	Equistar Tuscola Plant	55245	3	0	0	0	0	192	192	0	192	0
IL	Equistar Tuscola Plant	55245	4	0	0	0	0	158	158	0	158	0
IL	Equistar Tuscola Plant	55245	OVERDF	483	523	0	523					513
IL	Exxonmobil Oil Corporation	50627	20B1	0	0	0	0	39	39	0	39	0
IL	Exxonmobil Oil Corporation	50627	55B100	0	0	0	0	7	7	0	7	0
IL	Exxonmobil Oil Corporation	50627	OVERDF	186	60	6	66					46
IL	Factory Gas Turbine	8016	2	71	21	2	23	0	0	0	0	0
IL	Fisk	886	19	493	493	0	493	570	570	0	570	493
IL	Fisk	886	311	7	4	0	4	4	4	0	4	4
IL	Fisk	886	312	7	6	0	6	6	6	0	6	6
IL	Fisk	886	321	7	4	0	4	4	4	0	4	4
IL	Fisk	886	322	7	2	0	2	2	2	0	2	2
IL	Fisk	886	331	7	6	0	6	6	6	0	6	6
IL	Fisk	886	332	7	4	0	4	4	4	0	4	4
IL	Fisk	886	341	7	0	0	0	0	0	0	0	0
IL	Fisk	886	342	7	4	0	4	4	4	0	4	4
IL	Fisk	886	OVERDF	0	80	13	93					77
IL	Flint Hills Resources, LP - Joliet Plant	880089	CB706	0	11	2	13	11	11	0	11	11
IL	Freedom Power Project	7842	CT1	5	8	3	11	8	8	0	8	8
IL	Gibson City Power Plant	55201	GCTG1	0	5	0	5	5	5	0	5	5
IL	Gibson City Power Plant	55201	GCTG2	0	2	0	2	2	2	0	2	2
IL	Gibson City Power Plant	55201	OVERDF	23	10	0	10					0
IL	Goose Creek Power Plant	55496	CT-01	0	25	0	25		0	0	0	0
IL	Goose Creek Power Plant	55496	CT-02	0	25	0	25		0	0	0	0
IL	Goose Creek Power Plant	55496	CT-03	0	25	0	25		0	0	0	0
IL	Goose Creek Power Plant	55496	CT-04	0	25	0	25		0	0	0	0
IL	Goose Creek Power Plant	55496	CT-05	0	25	0	25		0	0	0	0
IL	Goose Creek Power Plant	55496	CT-06	0	25	0	25		0	0	0	0
IL	Goose Creek Power Plant	55496	OVERDF	0	0	26	26					0
IL	Grand Tower	862	CT01	0	50	0	50	50	50	0	50	50

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Grand Tower	862	CT02	0	60	0	60	60	60	0	60	60
IL	Grand Tower	862	OVERDF	0	10	0	10					0
IL	Havana	891	1	0	0	0	0	2	2	0	2	0
IL	Havana	891	2	0	0	0	0	2	2	0	2	0
IL	Havana	891	3	1	1	0	1	2	2	0	2	1
IL	Havana	891	4	1	1	0	1	2	2	0	2	1
IL	Havana	891	5	0	0	0	0	1	1	0	1	0
IL	Havana	891	6	0	0	0	0	1	1	0	1	0
IL	Havana	891	7	0	0	0	0	5	5	0	5	0
IL	Havana	891	8	0	0	0	0	1	1	0	1	0
IL	Havana	891	9	566	0	71	71	194	194	0	194	0
IL	Havana	891	OVERDF	0	273	226	499					164
IL	Hennepin Power Station	892	CS3 (1, 2)					469				
IL	Hennepin Power Station	892	1	141	0	81	81		108	0	108	0
IL	Hennepin Power Station	892	2	499	0	0	0		361	0	361	0
IL	Hennepin Power Station	892	OVERDF	0	640	258	898					419
IL	Holland Energy Facility	55334	CTG1	0	0	0	0	19	19	0	19	0
IL	Holland Energy Facility	55334	CTG2	0	0	0	0	12	12	0	12	0
IL	Holland Energy Facility	55334	OVERDF	26	20	51	71					20
IL	Hutsonville	863	05	134	213	0	213	213	213	0	213	213
IL	Hutsonville	863	06	119	265	0	265	265	265	0	265	265
IL	Hutsonville	863	OVERDF	0	35	0	35					0
IL	Interstate	7425	1	14	14	5	19	3	3	0	3	3
IL	Joliet 29	384	CS7172 (71, 72)					819				
IL	Joliet 29	384	71	438	410	0	410		410	0	410	410
IL	Joliet 29	384	72	635	410	0	410		409	0	409	409
IL	Joliet 29	384	CS8182 (81, 82)					524				
IL	Joliet 29	384	81	665	262	0	262		262	0	262	262
IL	Joliet 29	384	82	465	262	0	262		262	0	262	262
IL	Joliet 29	384	OVERDF	0	4	32	36					0
IL	Joliet 9	874	5	168	1,374	34	1,408	1,371	1,371	0	1,371	1,371
IL	Joppa Steam	887	CS1 (1, 2)					794				
IL	Joppa Steam	887	1	451	400	14	414		397	0	397	397
IL	Joppa Steam	887	2	479	400	3	403		397	0	397	397
IL	Joppa Steam	887	CS2 (3, 4)					766				
IL	Joppa Steam	887	3	472	386	10	396		383	0	383	383
IL	Joppa Steam	887	4	373	386	3	389		383	0	383	383

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Joppa Steam	887	CS3 (5,6)				638					
IL	Joppa Steam	887	5	437	321	2	323	319	0	319	319	
IL	Joppa Steam	887	6	486	321	2	323	319	0	319	319	
IL	Joppa Steam	887	OVERDF	0	0	48	48				0	
IL	Kendall Energy Facility	55131	GTG-1	0	21	2	23	21	0	21	20	
IL	Kendall Energy Facility	55131	GTG-2	0	21	2	23	22	0	22	21	
IL	Kendall Energy Facility	55131	GTG-3	0	19	1	20	19	0	19	19	
IL	Kendall Energy Facility	55131	GTG-4	0	15	2	17	15	0	15	14	
IL	Kendall Energy Facility	55131	OVERDF	118	42	0	42				0	
IL	Kincaid Station	876	CS0102 (1, 2)				882					
IL	Kincaid Station	876	1	0	0	0	0	441	0	441	0	
IL	Kincaid Station	876	2	0	0	0	0	441	0	441	0	
IL	Kincaid Station	876	OVERDF	1,636	882	0	882				882	
IL	Kinmundy Power Plant	55204	KCTG1	0	25	0	25	2	0	2	2	
IL	Kinmundy Power Plant	55204	KCTG2	0	25	0	25	3	0	3	3	
IL	Kinmundy Power Plant	55204	OVERDF	21	21	49	70				0	
IL	Lakeside	964	CS0078 (7, 8)				423					
IL	Lakeside	964	7	47	217	0	217	212	0	212	212	
IL	Lakeside	964	8	42	222	231	453	211	0	211	211	
IL	Lakeside	964	OVERDF	0	0	134	134				0	
IL	Lee Energy Facility	55236	CT1	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT2	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT3	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT4	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT5	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT6	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT7	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	CT8	0	1	0	1	1	0	1	1	
IL	Lee Energy Facility	55236	OVERDF	17	3	2	5				0	
IL	Lemont Refinery	880076	430B-1	23	31	0	31	31	0	31	31	
IL	Lincoln Generating Facility	55222	CTG-1	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-2	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-3	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-4	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-5	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-6	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-7	0	0	0	0	0	0	0	0	
IL	Lincoln Generating Facility	55222	CTG-8	0	0	0	0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Lincoln Generating Facility	55222	OVERDF	40	40	75	115					0
IL	Marathon Petroleum Company LLC	880088	59F-3	0	0	0	0	5	5	0	5	0
IL	Marathon Petroleum Company LLC	880088	59F-4	0	0	0	0	63	63	0	63	0
IL	Marathon Petroleum Company LLC	880088	OVERDF	106	106	82	188					68
IL	Marion	976	123	65	0	0	0	207	207	0	207	0
IL	Marion	976	4	470	0	0	0	375	375	0	375	0
IL	Marion	976	5	0	0	0	0	1	1	0	1	0
IL	Marion	976	6	0	0	0	0	0	0	0	0	0
IL	Marion	976	OVERDF	12	189	1,687	1,876					189
IL	MEPI Gt Facility	7858	1	13	13	5	18	3	3	0	3	3
IL	MEPI Gt Facility	7858	2	13	13	3	16	5	5	0	5	5
IL	MEPI Gt Facility	7858	3	12	12	3	15	5	5	0	5	5
IL	MEPI Gt Facility	7858	4	5	5	5	10	0	0	0	0	0
IL	MEPI Gt Facility	7858	5	5	5	2	7	0	0	0	0	0
IL	MEPI Gt Facility	7858	OVERDF	0	0	36	36					0
IL	Meredosia	864	CS0001 (01, 02, 03, 04)					502				
IL	Meredosia	864	01	31	31	315	346		98	0	98	23
IL	Meredosia	864	02	25	25	457	482		126	0	126	17
IL	Meredosia	864	03	24	24	547	571		146	0	146	15
IL	Meredosia	864	04	30	30	426	456		132	0	132	30
IL	Meredosia	864	05	396	626	349	975	709	709	0	709	626
IL	Meredosia	864	06	26	2	0	2	2	2	0	2	2
IL	Meredosia	864	OVERDF	0	60	0	60					0
IL	Morris Cogeneration, LLC	55216	B-5	0	0	0	0	0	0	0	0	0
IL	Morris Cogeneration, LLC	55216	B-6	0	0	0	0	0	0	0	0	0
IL	Morris Cogeneration, LLC	55216	CTG1	0	0	0	0	3	3	0	3	0
IL	Morris Cogeneration, LLC	55216	CTG2	0	0	0	0	14	14	0	14	0
IL	Morris Cogeneration, LLC	55216	CTG3	0	0	0	0	22	22	0	22	0
IL	Morris Cogeneration, LLC	55216	OVERDF	200	59	8	67					39
IL	Naval Station Great Lakes	880091	GLBLR5	26	26	56	82	0	0	0	0	0
IL	Naval Station Great Lakes	880091	GLBLR6	26	26	68	94	0	0	0	0	0
IL	Naval Station Great Lakes	880091	OVERDF	0	0	0	0					0
IL	Newton	6017	1	1,047	895	0	895	895	895	0	895	895
IL	Newton	6017	2	1,031	732	0	732	732	732	0	732	732
IL	Newton	6017	OVERDF	0	50	0	50					0
IL	NRG Rockford Energy Center	55238	0001	0	0	0	0	5	5	0	5	0
IL	NRG Rockford Energy Center	55238	0002	0	0	0	0	3	3	0	3	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	NRG Rockford Energy Center	55238	OVERDF	14	12	1	13					8
IL	NRG Rockford II Energy Center	55936	U1	6	8	1	9	7	7	0	7	7
IL	Pinckneyville Power Plant	55202	CT01	0	50	0	50	15	15	0	15	15
IL	Pinckneyville Power Plant	55202	CT02	0	50	0	50	14	14	0	14	14
IL	Pinckneyville Power Plant	55202	CT03	0	50	0	50	15	15	0	15	15
IL	Pinckneyville Power Plant	55202	CT04	0	50	0	50	14	14	0	14	14
IL	Pinckneyville Power Plant	55202	CT05	0	10	0	10	1	1	0	1	1
IL	Pinckneyville Power Plant	55202	CT06	0	10	0	10	1	1	0	1	1
IL	Pinckneyville Power Plant	55202	CT07	0	10	0	10	0	0	0	0	0
IL	Pinckneyville Power Plant	55202	CT08	0	10	0	10	1	1	0	1	1
IL	Pinckneyville Power Plant	55202	OVERDF	63	63	76	139					0
IL	Powerton	879	CS0506 (51, 52, 61, 62)					7,830				
IL	Powerton	879	51	695	695	0	695		1,958	0	1,958	695
IL	Powerton	879	52	695	695	0	695		1,958	0	1,958	695
IL	Powerton	879	61	692	692	0	692		1,958	0	1,958	692
IL	Powerton	879	62	692	692	0	692		1,956	0	1,956	692
IL	Powerton	879	OVERDF	0	5,077	192	5,269					5,056
IL	PPL University Park Power Project	55640	CT01	0	0	0	0	3	3	0	3	0
IL	PPL University Park Power Project	55640	CT02	0	0	0	0	2	2	0	2	0
IL	PPL University Park Power Project	55640	CT03	0	0	0	0	3	3	0	3	0
IL	PPL University Park Power Project	55640	CT04	0	0	0	0	7	7	0	7	0
IL	PPL University Park Power Project	55640	CT05	0	0	0	0	1	1	0	1	0
IL	PPL University Park Power Project	55640	CT06	0	0	0	0	2	2	0	2	0
IL	PPL University Park Power Project	55640	CT07	0	0	0	0	4	4	0	4	0
IL	PPL University Park Power Project	55640	CT08	0	0	0	0	4	4	0	4	0
IL	PPL University Park Power Project	55640	CT09	0	0	0	0	4	4	0	4	0
IL	PPL University Park Power Project	55640	CT10	0	0	0	0	2	2	0	2	0
IL	PPL University Park Power Project	55640	CT11	0	0	0	0	2	2	0	2	0
IL	PPL University Park Power Project	55640	CT12	0	0	0	0	2	2	0	2	0
IL	PPL University Park Power Project	55640	OVERDF	6	38	0	38					36
IL	Raccoon Creek Power Plant	55417	CT-01	0	10	0	10	2	2	0	2	2
IL	Raccoon Creek Power Plant	55417	CT-02	0	10	0	10	2	2	0	2	2
IL	Raccoon Creek Power Plant	55417	CT-03	0	10	0	10	1	1	0	1	1
IL	Raccoon Creek Power Plant	55417	CT-04	0	10	0	10	2	2	0	2	2
IL	Raccoon Creek Power Plant	55417	OVERDF	5	5	31	36					0
IL	Reliant Energy - Aurora	55279	AGS01	5	5	0	5	5	5	0	5	5
IL	Reliant Energy - Aurora	55279	AGS02	6	6	0	6	6	6	0	6	6



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Reliant Energy - Aurora	55279	AGS03	8	5	0	5	5	5	0	5	5
IL	Reliant Energy - Aurora	55279	AGS04	5	6	0	6	6	6	0	6	6
IL	Reliant Energy - Aurora	55279	AGS05	6	3	0	3	3	3	0	3	3
IL	Reliant Energy - Aurora	55279	AGS06	8	3	0	3	3	3	0	3	3
IL	Reliant Energy - Aurora	55279	AGS07	8	3	0	3	3	3	0	3	3
IL	Reliant Energy - Aurora	55279	AGS08	7	4	0	4	4	4	0	4	4
IL	Reliant Energy - Aurora	55279	AGS09	7	3	0	3	3	3	0	3	3
IL	Reliant Energy - Aurora	55279	AGS10	7	3	0	3	3	3	0	3	3
IL	Reliant Energy - Aurora	55279	OVERDF	0	10	0	10					0
IL	Reliant Energy Shelby County	55237	SCE1	0	4	0	4	4	4	0	4	4
IL	Reliant Energy Shelby County	55237	SCE2	0	4	0	4	4	4	0	4	4
IL	Reliant Energy Shelby County	55237	SCE3	0	4	0	4	4	4	0	4	4
IL	Reliant Energy Shelby County	55237	SCE4	0	3	0	3	3	3	0	3	3
IL	Reliant Energy Shelby County	55237	SCE5	0	3	0	3	3	3	0	3	3
IL	Reliant Energy Shelby County	55237	SCE6	0	5	0	5	5	5	0	5	5
IL	Reliant Energy Shelby County	55237	SCE7	0	4	0	4	4	4	0	4	4
IL	Reliant Energy Shelby County	55237	SCE8	0	4	0	4	4	4	0	4	4
IL	Reliant Energy Shelby County	55237	OVERDF	42	8	0	8					0
IL	Rocky Road Power, LLC	55109	T1	0	2	12	14	9	9	0	9	2
IL	Rocky Road Power, LLC	55109	T2	0	4	9	13	9	9	0	9	4
IL	Rocky Road Power, LLC	55109	T3	0	0	3	3	1	1	0	1	0
IL	Rocky Road Power, LLC	55109	T4	0	2	5	7	5	5	0	5	2
IL	Rocky Road Power, LLC	55109	OVERDF	23	13	0	13					0
IL	Southeast Chicago Energy Project	55281	CTG10	0	0	0	0	1	1	0	1	0
IL	Southeast Chicago Energy Project	55281	CTG11	0	0	0	0	1	1	0	1	0
IL	Southeast Chicago Energy Project	55281	CTG12	0	0	0	0	1	1	0	1	0
IL	Southeast Chicago Energy Project	55281	CTG5	0	0	0	0	2	2	0	2	0
IL	Southeast Chicago Energy Project	55281	CTG6	0	0	0	0	2	2	0	2	0
IL	Southeast Chicago Energy Project	55281	CTG7	0	0	0	0	1	1	0	1	0
IL	Southeast Chicago Energy Project	55281	CTG8	0	0	0	0	2	2	0	2	0
IL	Southeast Chicago Energy Project	55281	CTG9	0	0	0	0	2	2	0	2	0
IL	Southeast Chicago Energy Project	55281	OVERDF	0	8	46	54					8
IL	Tate & Lyle	10867	123-08	0	0	0	0	71	71	0	71	0
IL	Tate & Lyle	10867	123-09	0	0	0	0	69	69	0	69	0
IL	Tate & Lyle	10867	1-25	0	0	0	0	0	0	0	0	0
IL	Tate & Lyle	10867	OVERDF	476	151	0	151					140
IL	Tilton Power Station	7760	1	0	0	6	6	6	6	0	6	0
IL	Tilton Power Station	7760	2	0	0	4	4	4	4	0	4	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Tilton Power Station	7760	3	0	0	5	5	5	5	0	5	0
IL	Tilton Power Station	7760	4	0	0	0	0	6	6	0	6	0
IL	Tilton Power Station	7760	OVERDF	43	43	47	90					11
IL	University Park Energy	55250	UP1	0	0	0	0	6	6	0	6	0
IL	University Park Energy	55250	UP10	0	0	0	0	6	6	0	6	0
IL	University Park Energy	55250	UP11	0	0	0	0	6	6	0	6	0
IL	University Park Energy	55250	UP12	0	0	0	0	6	6	0	6	0
IL	University Park Energy	55250	UP2	0	0	0	0	5	5	0	5	0
IL	University Park Energy	55250	UP3	0	0	0	0	7	7	0	7	0
IL	University Park Energy	55250	UP4	0	0	0	0	7	7	0	7	0
IL	University Park Energy	55250	UP5	0	0	0	0	8	8	0	8	0
IL	University Park Energy	55250	UP6	0	0	0	0	7	7	0	7	0
IL	University Park Energy	55250	UP7	0	0	0	0	5	5	0	5	0
IL	University Park Energy	55250	UP8	0	0	0	0	5	5	0	5	0
IL	University Park Energy	55250	UP9	0	0	0	0	7	7	0	7	0
IL	University Park Energy	55250	OVERDF	16	75	6	81					75
IL	Venice	913	CT03	0	25	0	25	16	16	0	16	16
IL	Venice	913	CT04	0	28	0	28	19	19	0	19	19
IL	Venice	913	CT05	0	6	0	6	3	3	0	3	3
IL	Venice	913	CT1	3	3	0	3	0	0	0	0	0
IL	Venice	913	CT2A	0	18	0	18	5	5	0	5	5
IL	Venice	913	CT2B	0	12	0	12	4	4	0	4	4
IL	Venice	913	OVERDF	0	0	129	129					0
IL	Vermilion Power Station	897	CS3 (1, 2)					487				
IL	Vermilion Power Station	897	1	37	0	60	60		179	0	179	0
IL	Vermilion Power Station	897	2	55	0	0	0		308	0	308	0
IL	Vermilion Power Station	897	OVERDF	0	535	186	721					450
IL	Waukegan	883	17	192	192	0	192	1,059	1,059	0	1,059	192
IL	Waukegan	883	311	4	1	0	1	1	1	0	1	1
IL	Waukegan	883	312	4	1	0	1	1	1	0	1	1
IL	Waukegan	883	321	4	1	0	1	1	1	0	1	1
IL	Waukegan	883	322	4	1	0	1	1	1	0	1	1
IL	Waukegan	883	7	400	400	0	400	505	505	0	505	400
IL	Waukegan	883	8	637	568	0	568	568	568	0	568	568
IL	Waukegan	883	OVERDF	0	978	52	1,030					972
IL	Will County	884	1	330	330	0	330	769	769	0	769	330
IL	Will County	884	2	318	318	0	318	922	922	0	922	318
IL	Will County	884	3	429	429	0	429	465	465	0	465	429

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IL	Will County	884	4	738	738	0	738	812	812	0	812	738
IL	Will County	884	OVERDF	0	1,161	71	1,232					1,153
IL	Wood River Power Station	898	CS1 (1, 2, 3)					0				
IL	Wood River Power Station	898	1	0	0	0	0		0	0	0	0
IL	Wood River Power Station	898	2	0	0	0	0		0	0	0	0
IL	Wood River Power Station	898	3	0	0	0	0		0	0	0	0
IL	Wood River Power Station	898	4	205	0	222	222	245	245	0	245	0
IL	Wood River Power Station	898	5	667	0	0	0	702	702	0	702	0
IL	Wood River Power Station	898	OVERDF	0	872	702	1,574					809
IL	Wood River Refinery	880067	BLR15	0	0	0	0	40	40	0	40	0
IL	Wood River Refinery	880067	BLR16	0	0	0	0	21	21	0	21	0
IL	Wood River Refinery	880067	BLR17	0	0	0	0	45	45	0	45	0
IL	Wood River Refinery	880067	OVERDF	160	160	105	265					106
IL	Zion Energy Center	55392	CT-1	24	12	2	14	10	10	0	10	9
IL	Zion Energy Center	55392	CT-2	15	12	3	15	10	10	0	10	8
IL	Zion Energy Center	55392	CT-3	4	5	12	17	10	10	0	10	3
IL	Zion Energy Center	55392	OVERDF	0	0	0	0					0
IN	A B Brown Generating Station	6137	1	547	447	72	519	410	410	0	410	410
IN	A B Brown Generating Station	6137	2	605	455	60	515	395	395	0	395	395
IN	A B Brown Generating Station	6137	3	20	20	14	34	5	5	0	5	5
IN	A B Brown Generating Station	6137	4	17	17	0	17	3	3	14	17	17
IN	A B Brown Generating Station	6137	OVERDF	0	0	0	0					0
IN	Alcoa Allowance Management Inc	6705	XS123 (1, 2, 3)					2,492				
IN	Alcoa Allowance Management Inc	6705	1	1,158	811	0	811		831	0	831	811
IN	Alcoa Allowance Management Inc	6705	2	1,124	857	0	857		831	0	831	831
IN	Alcoa Allowance Management Inc	6705	3	1,091	824	0	824		830	0	830	824
IN	Alcoa Allowance Management Inc	6705	4	795	458	0	458	458	458	0	458	458
IN	Alcoa Allowance Management Inc	6705	OVERDF	0	35	0	35					26
IN	Anderson	7336	ACT1	10	10	29	39	1	1	0	1	1
IN	Anderson	7336	ACT2	9	9	25	34	1	1	0	1	1
IN	Anderson	7336	ACT3	51	51	0	51	1	1	50	51	51
IN	Anderson	7336	OVERDF	0	0	0	0					0
IN	Bailly Generating Station	995	10	6	0	13	13	0	0	0	0	0
IN	Bailly Generating Station	995	XS12 (7, 8)					2,966				
IN	Bailly Generating Station	995	7	439	753	3,064	3,817		1,483	0	1,483	753
IN	Bailly Generating Station	995	8	720	803	2,852	3,655		1,483	0	1,483	803
IN	Bailly Generating Station	995	OVERDF	0	0	0	0					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	BP Whiting Business Unit	52130	CS5-02 (1SPS15, 1SPS16, 1SPS17)					70				
IN	BP Whiting Business Unit	52130	1SPS15	22	66	0	66		23	0	23	23
IN	BP Whiting Business Unit	52130	1SPS16	22	22	0	22		23	0	23	22
IN	BP Whiting Business Unit	52130	1SPS17	23	23	0	23		24	0	24	23
IN	BP Whiting Business Unit	52130	3SPS31	268	268	84	352	114	114	0	114	114
IN	BP Whiting Business Unit	52130	3SPS32	268	268	58	326	86	86	0	86	86
IN	BP Whiting Business Unit	52130	3SPS33	268	268	85	353	76	76	0	76	76
IN	BP Whiting Business Unit	52130	3SPS34	268	268	96	364	61	61	0	61	61
IN	BP Whiting Business Unit	52130	3SPS36	268	268	93	361	27	27	0	27	27
IN	BP Whiting Business Unit	52130	OVERDF	0	0	220	220					0
IN	Broadway Avenue Generating Station	1011	1	17	17	14	31	3	3	0	3	3
IN	Broadway Avenue Generating Station	1011	2	29	29	17	46	15	15	0	15	15
IN	Broadway Avenue Generating Station	1011	OVERDF	0	0	0	0					0
IN	C. C. Perry K Steam Plant	992	11	127	30	0	30	23	23	0	23	23
IN	C. C. Perry K Steam Plant	992	CS004 (12, 13)					114				
IN	C. C. Perry K Steam Plant	992	12	147	100	0	100		91	0	91	91
IN	C. C. Perry K Steam Plant	992	13	90	30	0	30		23	0	23	23
IN	C. C. Perry K Steam Plant	992	14	80	15	0	15	9	9	0	9	9
IN	C. C. Perry K Steam Plant	992	CS001 (15, 16)					229				
IN	C. C. Perry K Steam Plant	992	15	58	58	173	231		149	0	149	49
IN	C. C. Perry K Steam Plant	992	16	74	99	3	102		80	0	80	80
IN	C. C. Perry K Steam Plant	992	OVERDF	0	0	0	0					0
IN	Cayuga	1001	1	1,112	1,936	0	1,936	1,898	1,898	0	1,898	1,898
IN	Cayuga	1001	2	1,075	1,922	0	1,922	1,885	1,885	0	1,885	1,885
IN	Cayuga	1001	4	37	10	0	10	2	2	0	2	2
IN	Cayuga	1001	OVERDF	0	0	0	0					0
IN	Clifty Creek	983	CS001 (1, 2, 3)					1,258				
IN	Clifty Creek	983	1	472	387	260	647		419	0	419	362
IN	Clifty Creek	983	2	488	288	632	920		419	0	419	280
IN	Clifty Creek	983	3	504	289	664	953		420	0	420	274
IN	Clifty Creek	983	CS002 (4, 5, 6)					2,781				
IN	Clifty Creek	983	4	470	1,070	435	1,505		927	0	927	831
IN	Clifty Creek	983	5	457	1,057	506	1,563		927	0	927	816
IN	Clifty Creek	983	6	425	925	410	1,335		927	0	927	837
IN	Clifty Creek	983	OVERDF	0	0	0	0					0
IN	Connersville Peaking Station	1002	1A	3	0	0	0	0	0	0	0	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	Connersville Peaking Station	1002	1B	2	0	0	0	0	0	0	0	0
IN	Connersville Peaking Station	1002	2A	3	0	0	0	0	0	0	0	0
IN	Connersville Peaking Station	1002	2B	2	0	0	0	0	0	0	0	0
IN	Connersville Peaking Station	1002	OVERDF	0	3	0	3					0
IN	Dean H Mitchell Generating Station	996	CS611 (6, 11)				0					
IN	Dean H Mitchell Generating Station	996	11	224	0	0	0	0	0	0	0	0
IN	Dean H Mitchell Generating Station	996	CS45 (4, 5)				0					
IN	Dean H Mitchell Generating Station	996	4	126	0	0	0	0	0	0	0	0
IN	Dean H Mitchell Generating Station	996	5	244	0	0	0	0	0	0	0	0
IN	Dean H Mitchell Generating Station	996	6	255	0	0	0	0	0	0	0	0
IN	Dean H Mitchell Generating Station	996	OVERDF	0	0	0	0					0
IN	Edwardsport	1004	6-1	15	1	0	1	1	1	0	1	1
IN	Edwardsport	1004	7-1	110	126	0	126	124	124	0	124	124
IN	Edwardsport	1004	7-2	103	86	0	86	84	84	0	84	84
IN	Edwardsport	1004	8-1	102	134	0	134	131	131	0	131	131
IN	Edwardsport	1004	OVERDF	0	0	0	0					0
IN	F B Culley Generating Station	1012	XS23 (2, 3)				1,034					
IN	F B Culley Generating Station	1012	2	244	1,045	115	1,160	1,034	1,034	0	1,034	1,034
IN	F B Culley Generating Station	1012	3	775	0	22	22	0	0	0	0	0
IN	F B Culley Generating Station	1012	OVERDF	0	0	0	0					0
IN	Frank E Ratts	1043	1SG1	301	911	134	1,045	940	940	0	940	911
IN	Frank E Ratts	1043	2SG1	280	855	93	948	872	872	0	872	855
IN	Frank E Ratts	1043	OVERDF	0	0	0	0					0
IN	Georgetown Substation	7759	GT1	6	6	0	6	1	1	0	1	1
IN	Georgetown Substation	7759	GT2	4	4	0	4	2	2	0	2	2
IN	Georgetown Substation	7759	GT3	4	4	0	4	3	3	0	3	3
IN	Georgetown Substation	7759	GT4	5	5	0	5	2	2	0	2	2
IN	Georgetown Substation	7759	OVERDF	0	0	0	0					0
IN	Gibson	6113	1	1,442	348	0	348	352	352	0	352	348
<b>IN</b>	<b>Gibson<sup>2</sup></b>	<b>6113</b>	<b>2</b>	<b>1,325</b>	<b>832</b>	<b>0</b>	<b>832</b>	<b>1,050</b>	<b>1,050</b>	<b>0</b>	<b>1,050</b>	<b>832</b>
IN	Gibson	6113	3	1,282	935	0	935	935	935	0	935	935
IN	Gibson	6113	4	1,460	778	0	778	778	778	0	778	778
IN	Gibson	6113	5	1,388	470	0	470	470	470	0	470	470
IN	Gibson	6113	OVERDF	0	43	0	43					43
IN	Harding Street Station (EW Stout)	990	10	5	1	0	1	1	1	0	1	1
IN	Harding Street Station (EW Stout)	990	50	235	416	0	416	416	416	0	416	416
IN	Harding Street Station (EW Stout)	990	60	219	276	0	276	275	275	0	275	275
IN	Harding Street Station (EW Stout)	990	70	824	347	0	347	346	346	0	346	346

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	Harding Street Station (EW Stout)	990	9	6	2	0	2	1	1	0	1	1
IN	Harding Street Station (EW Stout)	990	GT4	29	7	0	7	7	7	0	7	7
IN	Harding Street Station (EW Stout)	990	GT5	28	7	0	7	7	7	0	7	7
IN	Harding Street Station (EW Stout)	990	GT6	4	5	0	5	5	5	0	5	5
IN	Harding Street Station (EW Stout)	990	OVERDF	0	11	0	11					0
IN	Henry County Generating Station	7763	1	12	5	0	5	5	5	0	5	5
IN	Henry County Generating Station	7763	2	11	6	0	6	6	6	0	6	6
IN	Henry County Generating Station	7763	3	10	5	0	5	5	5	0	5	5
IN	Henry County Generating Station	7763	OVERDF	0	6	0	6					0
IN	Hoosier Energy Lawrence Co Station	7948	1	25	25	0	25	4	4	21	25	25
IN	Hoosier Energy Lawrence Co Station	7948	2	25	25	0	25	5	5	20	25	25
IN	Hoosier Energy Lawrence Co Station	7948	3	25	25	0	25	5	5	20	25	25
IN	Hoosier Energy Lawrence Co Station	7948	4	25	25	0	25	4	4	21	25	25
IN	Hoosier Energy Lawrence Co Station	7948	5	25	25	0	25	3	3	22	25	25
IN	Hoosier Energy Lawrence Co Station	7948	6	25	25	0	25	4	4	21	25	25
IN	Hoosier Energy Lawrence Co Station	7948	OVERDF	0	0	0	0					0
IN	IPL Eagle Valley Generating Station	991	1	4	1	0	1	1	1	0	1	1
IN	IPL Eagle Valley Generating Station	991	2	6	1	0	1	1	1	0	1	1
IN	IPL Eagle Valley Generating Station	991	CS592 (3, 4)					647				
IN	IPL Eagle Valley Generating Station	991	3	98	231	0	231		230	0	230	230
IN	IPL Eagle Valley Generating Station	991	4	114	417	0	417		417	0	417	417
IN	IPL Eagle Valley Generating Station	991	CS596 (5, 6)					556				
IN	IPL Eagle Valley Generating Station	991	5	110	214	0	214		214	0	214	214
IN	IPL Eagle Valley Generating Station	991	6	202	342	0	342		342	0	342	342
IN	IPL Eagle Valley Generating Station	991	OVERDF	0	4	0	4					0
IN	Lawrenceburg Energy Facility	55502	1	34	0	0	0	13	13	23	36	0
IN	Lawrenceburg Energy Facility	55502	2	34	0	0	0	10	10	23	33	0
IN	Lawrenceburg Energy Facility	55502	3	34	0	0	0	11	11	23	34	0
IN	Lawrenceburg Energy Facility	55502	4	34	0	0	0	11	11	22	33	0
IN	Lawrenceburg Energy Facility	55502	OVERDF	0	136	10	146					136
IN	Merom	6213	1SG1	1,330	720	321	1,041	791	791	0	791	720
IN	Merom	6213	2SG1	1,375	800	153	953	834	834	0	834	800
IN	Merom	6213	OVERDF	0	0	0	0					0
IN	Michigan City Generating Station	997	12	1,016	40	2,607	2,647	660	660	0	660	40
IN	Michigan City Generating Station	997	4	20	0	0	0	0	0	0	0	0
IN	Michigan City Generating Station	997	5	12	0	0	0	0	0	0	0	0
IN	Michigan City Generating Station	997	6	9	0	0	0	0	0	0	0	0
IN	Michigan City Generating Station	997	OVERDF	0	0	0	0					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	Mittal Steel USA - Indiana Harbor East	10474	211	117	0	0	0	5	5	0	5	0
IN	Mittal Steel USA - Indiana Harbor East	10474	212	117	0	0	0	0	0	0	0	0
IN	Mittal Steel USA - Indiana Harbor East	10474	213	116	0	0	0	2	2	0	2	0
IN	Mittal Steel USA - Indiana Harbor East	10474	CS5 (501, 502, 503)					164				
IN	Mittal Steel USA - Indiana Harbor East	10474	501	146	0	0	0		55	0	55	0
IN	Mittal Steel USA - Indiana Harbor East	10474	502	146	0	0	0		55	0	55	0
IN	Mittal Steel USA - Indiana Harbor East	10474	503	146	0	0	0		54	0	54	0
IN	Mittal Steel USA - Indiana Harbor East	10474	OVERDF	0	247	0	247					171
IN	Montpelier Electric Gen Station	55229	G1CT1	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G1CT2	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G2CT1	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G2CT2	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G3CT1	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G3CT2	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G4CT1	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	G4CT2	7	0	0	0	3	3	0	3	0
IN	Montpelier Electric Gen Station	55229	OVERDF	0	42	0	42					24
IN	New Energy Corp	880087	U-4000	253	253	30	283	225	225	0	225	225
IN	Noblesville	1007	CT3	30	33	0	33	3	3	30	33	33
IN	Noblesville	1007	CT4	30	36	0	36	6	6	30	36	36
IN	Noblesville	1007	CT5	30	38	0	38	7	7	30	37	37
IN	Noblesville	1007	OVERDF	0	4	0	4					0
IN	Petersburg	994	1	595	947	0	947	947	947	0	947	947
IN	Petersburg	994	2	1,090	687	0	687	687	687	0	687	687
IN	Petersburg	994	3	1,312	843	0	843	843	843	0	843	843
IN	Petersburg	994	4	1,230	2,151	0	2,151	2,151	2,151	0	2,151	2,151
IN	Petersburg	994	OVERDF	0	11	0	11					0
IN	Portside Energy	55096	BLR1	52	0	0	0	6	6	0	6	0
IN	Portside Energy	55096	BLR2	5	0	0	0	7	7	0	7	0
IN	Portside Energy	55096	CT	38	10	0	10	6	6	0	6	6
IN	Portside Energy	55096	OVERDF	0	10	19	29					10
IN	Purdue University-Wade Utility	50240	1	126	56	29	85	76	76	0	76	56
IN	Purdue University-Wade Utility	50240	2	127	97	0	97	98	98	0	98	97
IN	Purdue University-Wade Utility	50240	3	8	1	0	1	1	1	0	1	1
IN	Purdue University-Wade Utility	50240	5	77	25	1	26	26	26	0	26	25
IN	Purdue University-Wade Utility	50240	OVERDF	0	26	0	26					3
IN	R Gallagher	1008	CS0001 (1, 2)					1,101				

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	R Gallagher	1008	1	268	541	0	541		550	0	550	541
IN	R Gallagher	1008	2	281	556	0	556		551	0	551	551
IN	R Gallagher	1008	CS0002 (3, 4)					1,200				
IN	R Gallagher	1008	3	313	569	0	569		558	0	558	558
IN	R Gallagher	1008	4	300	654	0	654		642	0	642	642
IN	R Gallagher	1008	OVERDF	0	27	0	27					9
IN	R M Schahfer Generating Station	6085	14	959	620	1,729	2,349	1,028	1,028	0	1,028	620
IN	R M Schahfer Generating Station	6085	15	1,226	1,120	2,796	3,916	1,786	1,786	0	1,786	1,120
IN	R M Schahfer Generating Station	6085	16A	21	1	24	25	4	4	0	4	1
IN	R M Schahfer Generating Station	6085	16B	17	1	40	41	7	7	0	7	1
IN	R M Schahfer Generating Station	6085	17	772	243	3,213	3,456	1,009	1,009	0	1,009	243
IN	R M Schahfer Generating Station	6085	18	851	46	4,069	4,115	1,017	1,017	0	1,017	46
IN	R M Schahfer Generating Station	6085	OVERDF	0	0	0	0					0
IN	Richmond (IN)	7335	RCT1	9	9	25	34	1	1	0	1	1
IN	Richmond (IN)	7335	RCT2	9	9	25	34	1	1	0	1	1
IN	Richmond (IN)	7335	OVERDF	0	0	0	0					0
IN	Rockport	6166	AB1	2	3	0	3	3	3	0	3	3
IN	Rockport	6166	AB2	1	4	0	4	4	4	0	4	4
IN	Rockport	6166	CS012 (MB1, MB2)					6,823				
IN	Rockport	6166	MB1	3,537	3,898	0	3,898		3,898	0	3,898	3,898
IN	Rockport	6166	MB2	3,252	1,921	4,184	6,105		2,925	0	2,925	1,921
IN	Rockport	6166	OVERDF	0	183	0	183					0
IN	State Line Generating Station (IN)	981	3	408	0	0	0	541	541	0	541	0
IN	State Line Generating Station (IN)	981	4	604	0	0	0	2,224	2,224	0	2,224	0
IN	State Line Generating Station (IN)	981	OVERDF	0	2,766	0	2,766					2,765
IN	Sugar Creek Power Company, LLC	55364	CT11	60	60	0	60	27	27	33	60	60
IN	Sugar Creek Power Company, LLC	55364	CT12	60	60	0	60	13	13	47	60	60
IN	Sugar Creek Power Company, LLC	55364	OVERDF	0	0	0	0					0
IN	Tanners Creek	988	CS013 (U1, U2, U3)					2,189				
IN	Tanners Creek	988	U1	292	615	0	615		615	0	615	615
IN	Tanners Creek	988	U2	277	639	0	639		639	0	639	639
IN	Tanners Creek	988	U3	399	935	0	935		935	0	935	935
IN	Tanners Creek	988	U4	982	1,667	0	1,667	1,667	1,667	0	1,667	1,667
IN	Tanners Creek	988	OVERDF	0	76	0	76					0
IN	US Steel Corp - Gary Works	50733	701B1	83	24	0	24	21	21	0	21	21
IN	US Steel Corp - Gary Works	50733	701B2	83	21	0	21	21	21	0	21	21
IN	US Steel Corp - Gary Works	50733	701B3	83	17	0	17	17	17	0	17	17



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	US Steel Corp - Gary Works	50733	701B5	92	9	0	9	8	8	0	8	8
IN	US Steel Corp - Gary Works	50733	701B6	155	19	0	19	15	15	0	15	15
IN	US Steel Corp - Gary Works	50733	720B1	114	11	0	11	10	10	0	10	10
IN	US Steel Corp - Gary Works	50733	720B2	114	20	0	20	19	19	0	19	19
IN	US Steel Corp - Gary Works	50733	720B3	114	10	0	10	10	10	0	10	10
IN	US Steel Corp - Gary Works	50733	OVERDF	0	0	0	0					0
IN	Vermillion Energy Facility	55111	1	6	2	0	2	2	2	0	2	2
IN	Vermillion Energy Facility	55111	2	5	2	0	2	2	2	0	2	2
IN	Vermillion Energy Facility	55111	3	6	2	0	2	2	2	0	2	2
IN	Vermillion Energy Facility	55111	4	6	2	0	2	2	2	0	2	2
IN	Vermillion Energy Facility	55111	5	5	2	0	2	3	3	0	3	2
IN	Vermillion Energy Facility	55111	6	5	3	0	3	3	3	0	3	3
IN	Vermillion Energy Facility	55111	7	5	3	0	3	2	2	0	2	2
IN	Vermillion Energy Facility	55111	8	5	2	0	2	2	2	0	2	2
IN	Vermillion Energy Facility	55111	OVERDF	0	4	5	9					1
IN	Wabash River Gen Station	1010	1	305	159	0	159	156	156	0	156	156
IN	Wabash River Gen Station	1010	CS0005 (2, 3, 4, 5, 6)					2,956				
IN	Wabash River Gen Station	1010	2	177	440	0	440		432	0	432	432
IN	Wabash River Gen Station	1010	3	189	328	0	328		322	0	322	322
IN	Wabash River Gen Station	1010	4	214	442	0	442		435	0	435	435
IN	Wabash River Gen Station	1010	5	218	366	0	366		358	0	358	358
IN	Wabash River Gen Station	1010	6	697	1,439	0	1,439		1,409	0	1,409	1,409
IN	Wabash River Gen Station	1010	OVERDF	0	0	0	0					0
IN	Wheatland Generating Facility LLC	55224	EU-01	6	0	0	0	3	3	0	3	0
IN	Wheatland Generating Facility LLC	55224	EU-02	7	0	0	0	2	2	0	2	0
IN	Wheatland Generating Facility LLC	55224	EU-03	7	0	0	0	3	3	0	3	0
IN	Wheatland Generating Facility LLC	55224	EU-04	7	0	0	0	5	5	0	5	0
IN	Wheatland Generating Facility LLC	55224	OVERDF	0	13	0	13					13
IN	Whitewater Valley	1040	CS12 (1, 2)					352				
IN	Whitewater Valley	1040	1	82	82	2	84		81	0	81	81
IN	Whitewater Valley	1040	2	182	276	5	281		271	0	271	271
IN	Whitewater Valley	1040	OVERDF	0	0	0	0					0
IN	Whiting Clean Energy, Inc.	55259	CT1	118	20	0	20	16	16	0	16	16
IN	Whiting Clean Energy, Inc.	55259	CT2	156	20	0	20	15	15	0	15	15
IN	Whiting Clean Energy, Inc.	55259	OVERDF	0	0	0	0					0
IN	Worthington Generation	55148	1	8	8	0	8	3	3	0	3	3
IN	Worthington Generation	55148	2	10	10	0	10	4	4	0	4	4

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
IN	Worthington Generation	55148	3	8	8	0	8	2	2	0	2	2
IN	Worthington Generation	55148	4	8	8	0	8	3	3	0	3	3
IN	Worthington Generation	55148	OVERDF	0	0	0	0					0
KY	Big Sandy	1353	AUX2	0	2	0	2	2	2	0	2	2
KY	Big Sandy	1353	CS012 (BSU1, BSU2)				1,875					
KY	Big Sandy	1353	BSU1	522	151	1,437	1,588		495	0	495	151
KY	Big Sandy	1353	BSU2	1,748	1,380	0	1,380		1,380	0	1,380	1,380
KY	Big Sandy	1353	OVERDF	0	153	0	153					0
KY	Bluegrass Generation Company, LLC	55164	GTG1	15	1	1	2	1	1	0	1	1
KY	Bluegrass Generation Company, LLC	55164	GTG2	20	1	1	2	1	1	0	1	1
KY	Bluegrass Generation Company, LLC	55164	GTG3	16	1	1	2	1	1	0	1	1
KY	Bluegrass Generation Company, LLC	55164	OVERDF	0	33	0	33					0
KY	Calvert City Cogen	55308	A	14	14	23	37	0	0	0	0	0
KY	Calvert City Cogen	55308	B	12	12	21	33	0	0	0	0	0
KY	Calvert City Cogen	55308	C	70	70	37	107	36	36	0	36	36
KY	Calvert City Cogen	55308	OVERDF	0	0	0	0					0
KY	Cane Run	1363	4	365	884	0	884	934	934	0	934	884
KY	Cane Run	1363	5	409	861	0	861	910	910	0	910	861
KY	Cane Run	1363	6	507	755	0	755	798	798	0	798	755
KY	Cane Run	1363	OVERDF	0	0	1,001	1,001					0
KY	Catlettsburg Refining, LLC	880038	061	26	26	27	53	34	34	0	34	26
KY	Coleman	1381	XSC123 (C1, C2, C3)					2,027				
KY	Coleman	1381	C1	378	10	0	10		676	0	676	10
KY	Coleman	1381	C2	389	10	0	10		676	0	676	10
KY	Coleman	1381	C3	373	10	0	10		675	0	675	10
KY	Coleman	1381	OVERDF	0	2,075	0	2,075					1,997
KY	D B Wilson	6823	W1	1,375	595	0	595	539	539	0	539	539
KY	E W Brown	1355	1	253	523	0	523	601	601	0	601	523
KY	E W Brown	1355	10	15	4	0	4	5	5	0	5	4
KY	E W Brown	1355	11	8	3	0	3	3	3	0	3	3
KY	E W Brown	1355	CS003 (2, 3)					2,550				
KY	E W Brown	1355	2	400	657	0	657		755	0	755	657
KY	E W Brown	1355	3	937	1,561	0	1,561		1,795	0	1,795	1,561
KY	E W Brown	1355	5	29	7	0	7	8	8	0	8	7
KY	E W Brown	1355	6	26	12	0	12	14	14	0	14	12
KY	E W Brown	1355	7	23	5	0	5	6	6	0	6	5
KY	E W Brown	1355	8	29	10	0	10	12	12	0	12	10

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
KY	E W Brown	1355	9	21	6	0	6	7	7	0	7	6
KY	E W Brown	1355	OVERDF	0	0	1,861	1,861					0
KY	East Bend	6018	2	1,370	839	0	839	828	828	0	828	828
KY	Elmer Smith	1374	1	447	482	0	482	482	482	0	482	482
KY	Elmer Smith	1374	2	704	973	0	973	978	978	0	978	973
KY	Elmer Smith	1374	OVERDF	0	0	25	25					0
KY	Ghent	1356	CS013 (1, 3)					1,010				
KY	Ghent	1356	1	1,160	536	0	536		616	0	616	536
KY	Ghent	1356	2	1,050	1,495	0	1,495	1,719	1,719	0	1,719	1,495
KY	Ghent	1356	3	1,127	343	0	343		394	0	394	343
KY	Ghent	1356	4	1,061	201	0	201	230	230	0	230	201
KY	Ghent	1356	OVERDF	0	0	1,719	1,719					0
KY	Green River	1357	4	128	367	0	367	422	422	0	422	367
KY	Green River	1357	5	188	452	0	452	520	520	0	520	452
KY	Green River	1357	OVERDF	0	0	547	547					0
KY	H L Spurlock	6041	1	749	522	0	522	522	522	0	522	522
KY	H L Spurlock	6041	2	1,341	713	0	713	712	712	0	712	712
KY	H L Spurlock	6041	3	0	366	0	366	366	366	0	366	366
KY	H L Spurlock	6041	OVERDF	0	64	0	64					0
KY	Henderson I	1372	6	15	17	63	80	17	17	0	17	17
KY	HMP&L Station 2	1382	H1	416	164	0	164	158	158	0	158	158
KY	HMP&L Station 2	1382	H2	394	194	0	194	188	188	0	188	188
KY	HMP&L Station 2	1382	OVERDF	0	50	0	50					0
KY	John S. Cooper	1384	CS1 (1, 2)					1,761				
KY	John S. Cooper	1384	1	242	881	0	881		880	0	880	880
KY	John S. Cooper	1384	2	462	881	0	881		881	0	881	881
KY	John S. Cooper	1384	OVERDF	0	35	0	35					0
KY	Marshall	55232	CT1	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT2	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT3	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT4	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT5	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT6	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT7	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	CT8	0	0	0	0	2	2	0	2	0
KY	Marshall	55232	OVERDF	0	0	67	67					0
KY	Mill Creek	1364	1	770	1,223	0	1,223	1,293	1,293	0	1,293	1,223
KY	Mill Creek	1364	2	739	1,331	0	1,331	1,407	1,407	0	1,407	1,331

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
KY	Mill Creek	1364	3	1,008	319	0	319	337	337	0	337	319
KY	Mill Creek	1364	4	1,147	259	0	259	274	274	0	274	259
KY	Mill Creek	1364	OVERDF	0	0	1,272	1,272					0
KY	Paddy's Run	1366	13	52	19	6	25	19	19	0	19	19
KY	Paradise	1378	1	1,685	1,085	0	1,085	1,091	1,091	0	1,091	1,085
KY	Paradise	1378	2	1,889	1,159	0	1,159	1,171	1,171	0	1,171	1,159
KY	Paradise	1378	3	2,054	1,584	0	1,584	1,600	1,600	0	1,600	1,584
KY	Paradise	1378	OVERDF	0	0	143	143					0
KY	R D Green	6639	G1	639	945	0	945	942	942	0	942	942
KY	R D Green	6639	G2	655	890	0	890	885	885	0	885	885
KY	R D Green	6639	OVERDF	0	42	0	42					0
KY	Riverside Generating Company	55198	GTG101	8	2	1	3	2	2	0	2	2
KY	Riverside Generating Company	55198	GTG201	12	3	1	4	3	3	0	3	3
KY	Riverside Generating Company	55198	GTG301	10	3	1	4	3	3	0	3	3
KY	Riverside Generating Company	55198	GTG401	8	4	0	4	4	4	0	4	4
KY	Riverside Generating Company	55198	GTG501	7	3	0	3	3	3	0	3	3
KY	Riverside Generating Company	55198	OVERDF	0	30	0	30					0
KY	Robert Reid	1383	R1	177	290	0	290	282	282	0	282	282
KY	Robert Reid	1383	RT	3	0	0	0	0	0	0	0	0
KY	Robert Reid	1383	OVERDF	0	32	0	32					0
KY	Shawnee	1379	CSSH15 (1, 2, 3, 4, 5)					4,243				
KY	Shawnee	1379	1	358	838	0	838		852	0	852	838
KY	Shawnee	1379	CSSH60 (6, 7, 8, 9, 10)					4,130				
KY	Shawnee	1379	10	335	335	0	335		568	0	568	335
KY	Shawnee	1379	2	348	468	0	468		849	0	849	468
KY	Shawnee	1379	3	390	840	0	840		859	0	859	840
KY	Shawnee	1379	4	372	812	0	812		834	0	834	812
KY	Shawnee	1379	5	377	817	0	817		849	0	849	817
KY	Shawnee	1379	6	352	732	0	732		779	0	779	732
KY	Shawnee	1379	7	420	870	0	870		931	0	931	870
KY	Shawnee	1379	8	419	889	0	889		897	0	897	889
KY	Shawnee	1379	9	385	665	0	665		955	0	955	665
KY	Shawnee	1379	OVERDF	0	0	4,403	4,403					0
KY	Smith Generating Facility	54	SCT1	19	26	0	26	26	26	0	26	26
KY	Smith Generating Facility	54	SCT2	18	18	0	18	17	17	0	17	17
KY	Smith Generating Facility	54	SCT3	31	7	0	7	6	6	0	6	6
KY	Smith Generating Facility	54	SCT4	16	16	0	16	8	8	0	8	8

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
KY	Smith Generating Facility	54	SCT5	4	6	0	6	6	6	0	6	6
KY	Smith Generating Facility	54	SCT6	0	9	0	9	9	9	0	9	9
KY	Smith Generating Facility	54	SCT7	0	6	0	6	3	3	0	3	3
KY	Smith Generating Facility	54	OVERDF	0	15	0	15					0
KY	Trimble County	6071	1	1,302	372	0	372	395	395	0	395	372
KY	Trimble County	6071	10	0	15	0	15	16	16	0	16	15
KY	Trimble County	6071	5	10	10	0	10	10	10	0	10	10
KY	Trimble County	6071	6	8	9	0	9	9	9	0	9	9
KY	Trimble County	6071	7	0	9	0	9	10	10	0	10	9
KY	Trimble County	6071	8	0	12	0	12	13	13	0	13	12
KY	Trimble County	6071	9	0	12	0	12	13	13	0	13	12
KY	Trimble County	6071	OVERDF	0	0	262	262					0
KY	Tyrone	1361	5	152	425	284	709	489	489	0	489	425
KY	Wickliffe Paper Company	880065	01	5	3	0	3	2	2	0	2	2
KY	Wickliffe Paper Company	880065	02	6	2	0	2	2	2	0	2	2
KY	Wickliffe Paper Company	880065	OVERDF	0	1	0	1					0
KY	William C. Dale	1385	CS1 (1, 2)					414				
KY	William C. Dale	1385	1	0	207	0	207		207	0	207	207
KY	William C. Dale	1385	2	0	207	0	207		207	0	207	207
KY	William C. Dale	1385	CS2 (3, 4)					771				
KY	William C. Dale	1385	3	185	386	0	386		386	0	386	386
KY	William C. Dale	1385	4	179	386	0	386		385	0	385	385
KY	William C. Dale	1385	OVERDF	0	25	0	25					0
MA	ANP Bellingham Energy Project	55211	1	0	0	4	4	13	13	0	13	0
MA	ANP Bellingham Energy Project	55211	2	0	0	0	0	14	14	0	14	0
MA	ANP Bellingham Energy Project	55211	OVERDF	438	37	0	37					24
MA	ANP Blackstone Energy Company	55212	1	0	0	6	6	15	15	0	15	0
MA	ANP Blackstone Energy Company	55212	2	0	0	0	0	16	16	0	16	0
MA	ANP Blackstone Energy Company	55212	OVERDF	567	47	0	47					27
MA	Bellingham	10307	CS1 (1, 2)					140				
MA	Bellingham	10307	1	0	0	0	0		70	0	70	0
MA	Bellingham	10307	2	0	0	0	0		70	0	70	0
MA	Bellingham	10307	OVERDF	625	101	100	201					101
MA	Berkshire Power	55041	1	261	261	83	344	21	21	0	21	21
MA	Blackstone	1594	CS2 (11, 12)					5				
MA	Blackstone	1594	11	0	0	0	0		2	0	2	0
MA	Blackstone	1594	12	0	0	0	0		3	0	3	0
MA	Blackstone	1594	OVERDF	12	12	12	24					5

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MA	Brayton Point	1619	1	0	0	0	0	148	148	0	148	0
MA	Brayton Point	1619	2	0	0	0	0	733	733	0	733	0
MA	Brayton Point	1619	3	0	0	0	0	284	284	0	284	0
MA	Brayton Point	1619	4	0	0	0	0	12	12	0	12	0
MA	Brayton Point	1619	OVERDF	1,708	1,705	59	1,764					1,177
MA	Canal Station	1599	1	0	0	0	0	104	104	0	104	0
MA	Canal Station	1599	2	0	0	0	0	272	272	0	272	0
MA	Canal Station	1599	OVERDF	1,054	399	0	399					376
MA	Cleary Flood	1682	8	0	0	0	0	1	1	0	1	0
MA	Cleary Flood	1682	9	0	0	0	0	13	13	0	13	0
MA	Cleary Flood	1682	OVERDF	52	52	249	301					14
MA	Dartmouth Power	52026	1	65	11	0	11	11	11	0	11	11
MA	Deer Island Treatment	10823	S42	0	0	0	0	1	1	0	1	0
MA	Deer Island Treatment	10823	S43	0	0	0	0	0	0	0	0	0
MA	Deer Island Treatment	10823	OVERDF	3	3	97	100					1
MA	Dighton	55026	1	245	21	18	39	8	8	0	8	8
MA	Doreen	1631	10	0	0	9	9	1	1	0	1	0
MA	Fore River Station	55317	11	0	0	0	0	21	21	0	21	0
MA	Fore River Station	55317	12	0	0	0	0	22	22	0	22	0
MA	Fore River Station	55317	OVERDF	601	50	0	50					43
MA	Framingham Station	1586	FJ-1	0	0	0	0	1	1	0	1	0
MA	Framingham Station	1586	FJ-2	0	0	0	0	1	1	0	1	0
MA	Framingham Station	1586	FJ-3	0	0	0	0	0	0	0	0	0
MA	Framingham Station	1586	OVERDF	1	3	7	10					2
MA	General Electric Aircraft	10029	3	0	0	0	0	12	12	0	12	0
MA	General Electric Aircraft	10029	5	0	0	0	0	2	2	0	2	0
MA	General Electric Aircraft	10029	OVERDF	42	42	98	140					14
MA	Kendall Square	1595	CS12 (1, 2)					1				
MA	Kendall Square	1595	1	0	0	0	0		0	0	0	0
MA	Kendall Square	1595	2	0	0	0	0		1	0	1	0
MA	Kendall Square	1595	3	0	0	0	0	1	1	0	1	0
MA	Kendall Square	1595	4	0	0	0	0	15	15	0	15	0
MA	Kendall Square	1595	S6	0	0	0	0	7	7	0	7	0
MA	Kendall Square	1595	OVERDF	279	34	3	37					24
MA	Kneeland Station	880023	K1	0	0	0	0	13	13	0	13	0
MA	Kneeland Station	880023	K2	0	0	0	0	29	29	0	29	0
MA	Kneeland Station	880023	K3	0	0	0	0	31	31	0	31	0
MA	Kneeland Station	880023	K4	0	0	0	0	1	1	0	1	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MA	Kneeland Station	880023	OVERDF	174	75	40	115					74
MA	Lowell Cogeneration Company	10802	001	12	12	31	43	3	3	0	3	3
MA	Masspower	10726	1	0	0	0	0	18	18	0	18	0
MA	Masspower	10726	2	0	0	0	0	20	20	0	20	0
MA	Masspower	10726	OVERDF	366	40	4	44					38
MA	Medway Station	1592	J1T1	0	0	0	0	3	3	0	3	0
MA	Medway Station	1592	J1T2	0	0	0	0	3	3	0	3	0
MA	Medway Station	1592	J2T1	0	0	0	0	1	1	0	1	0
MA	Medway Station	1592	J2T2	0	0	0	0	1	1	0	1	0
MA	Medway Station	1592	J3T1	0	0	0	0	0	0	0	0	0
MA	Medway Station	1592	J3T2	0	0	0	0	1	1	0	1	0
MA	Medway Station	1592	OVERDF	1	13	5	18					9
MA	Milford Power (54805)	54805	1	160	34	4	38	31	31	0	31	29
MA	Millennium Power Partners	55079	1	473	24	62	86	30	30	0	30	0
MA	MIT Central Utility Plant	54907	1	113	38	3	41	10	10	0	10	10
MA	Montgomery L'Energia Power Partners LP	54586	1	36	0	0	0	0	0	0	0	0
MA	Mount Tom	1606	1	227	220	110	330	147	147	0	147	147
MA	Mystic	1588	4	0	0	0	0	0	0	0	0	0
MA	Mystic	1588	5	0	0	0	0	0	0	0	0	0
MA	Mystic	1588	6	0	0	0	0	0	0	0	0	0
MA	Mystic	1588	7	0	90	0	90	254	254	0	254	90
MA	Mystic	1588	81	0	0	0	0	20	20	0	20	0
MA	Mystic	1588	82	0	0	0	0	17	17	0	17	0
MA	Mystic	1588	93	0	0	0	0	20	20	0	20	0
MA	Mystic	1588	94	0	0	0	0	17	17	0	17	0
MA	Mystic	1588	MJ-1	0	0	0	0		0	0	0	0
MA	Mystic	1588	OVERDF	2,351	290	0	290					238
MA	New Boston	1589	1	0	0	0	0	0	0	0	0	0
MA	New Boston	1589	NBJ-1	0	0	0	0	2	2	0	2	0
MA	New Boston	1589	OVERDF	297	3	6	9					2
MA	Pittsfield Generating	50002	1	0	0	0	0	1	1	0	1	0
MA	Pittsfield Generating	50002	2	0	0	0	0	2	2	0	2	0
MA	Pittsfield Generating	50002	3	0	0	0	0	1	1	0	1	0
MA	Pittsfield Generating	50002	OVERDF	280	5	0	5					4
MA	Potter	1660	3	31	31	231	262	8	8	0	8	8
MA	Salem Harbor	1626	1	0	0	0	0	196	196	0	196	0
MA	Salem Harbor	1626	2	0	0	0	0	155	155	0	155	0
MA	Salem Harbor	1626	3	0	0	0	0	350	350	0	350	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MA	Salem Harbor	1626	4	0	0	0	0	42	42	0	42	0
MA	Salem Harbor	1626	OVERDF	680	767	0	767					743
MA	Somerset	1613	11	0	0	0	0	1	1	0	1	0
MA	Somerset	1613	8	0	0	0	0	222	222	0	222	0
MA	Somerset	1613	OVERDF	181	234	14	248					223
MA	South Boston Combustion Turbines	10176	A	0	0	5	5	1	1	0	1	0
MA	South Boston Combustion Turbines	10176	B	0	0	0	0	1	1	0	1	0
MA	South Boston Combustion Turbines	10176	OVERDF	1	1	10	11					1
MA	Stony Brook	6081	001	0	0	0	0	46	46	0	46	0
MA	Stony Brook	6081	002	0	0	0	0	14	14	0	14	0
MA	Stony Brook	6081	003	0	0	0	0	31	31	0	31	0
MA	Stony Brook	6081	004	0	0	0	0	3	3	0	3	0
MA	Stony Brook	6081	005	0	0	0	0	3	3	0	3	0
MA	Stony Brook	6081	OVERDF	174	146	233	379					97
MA	Waters River	1678	1	0	0	0	0	2	2	0	2	0
MA	Waters River	1678	2	2	0	0	0	3	3	0	3	0
MA	Waters River	1678	OVERDF	0	5	3	8					5
MA	West Springfield	1642	10	0	0	19	19	4	4	0	4	0
MA	West Springfield	1642	3	0	0	32	32	10	10	0	10	0
MA	West Springfield	1642	CTG1	0	0	0	0	3	3	0	3	0
MA	West Springfield	1642	CTG2	0	0	0	0	3	3	0	3	0
MA	West Springfield	1642	OVERDF	55	55	24	79					6
MA	Woodland Road	1643	10	0	0	11	11	2	2	0	2	0
MD	AES Warrior Run	10678	001	378	198	4	202	176	176	0	176	176
MD	Brandon Shores	602	1	1,850	0	0	0	397	397	0	397	0
MD	Brandon Shores	602	2	1,819	0	0	0	997	997	0	997	0
MD	Brandon Shores	602	OVERDF	0	251	4,821	5,072					251
MD	C P Crane	1552	1	461	0	0	0	924	924	0	924	0
MD	C P Crane	1552	2	435	0	0	0	1,076	1,076	0	1,076	0
MD	C P Crane	1552	OVERDF	0	2,020	0	2,020					2,000
MD	Herbert A Wagner	1554	1	74	0	0	0	65	65	0	65	0
MD	Herbert A Wagner	1554	2	367	0	0	0	769	769	0	769	0
MD	Herbert A Wagner	1554	3	669	0	0	0	327	327	0	327	0
MD	Herbert A Wagner	1554	4	156	0	0	0	176	176	0	176	0
MD	Herbert A Wagner	1554	OVERDF	0	1,349	0	1,349					1,337
MD	Luke Paper Company	50282	CSPR06 (PR003, PR004, PR005)					983				



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MD	Luke Paper Company	50282	PR003	500	603	0	603		603	0	603	603
MD	Luke Paper Company	50282	PR004	440	374	0	374		374	0	374	374
MD	Luke Paper Company	50282	PR005	7	0	10	10		6	0	6	0
MD	Luke Paper Company	50282	OVERDF	0	1	3	4					0
MD	Mirant Chalk Point	1571	**GT3	32	0	0	0	9	9	0	9	0
MD	Mirant Chalk Point	1571	**GT4	32	0	0	0	11	11	0	11	0
MD	Mirant Chalk Point	1571	**GT5	54	0	0	0	14	14	0	14	0
MD	Mirant Chalk Point	1571	**GT6	31	0	0	0	9	9	0	9	0
MD	Mirant Chalk Point	1571	CSE12 (1, 2)					3,915				
MD	Mirant Chalk Point	1571	1	793	0	0	0		1,958	0	1,958	0
MD	Mirant Chalk Point	1571	2	818	0	0	0		1,957	0	1,957	0
MD	Mirant Chalk Point	1571	3	339	0	0	0	189	189	0	189	0
MD	Mirant Chalk Point	1571	4	408	0	0	0	160	160	0	160	0
MD	Mirant Chalk Point	1571	GT2	1	0	0	0	51	51	0	51	0
MD	Mirant Chalk Point	1571	SMECO	43	0	0	0	23	23	0	23	0
MD	Mirant Chalk Point	1571	OVERDF	0	4,450	0	4,450					4,381
MD	Mirant Dickerson	1572	XS123 (1, 2, 3)					2,064				
MD	Mirant Dickerson	1572	1	452	0	0	0		688	0	688	0
MD	Mirant Dickerson	1572	2	441	0	0	0		688	0	688	0
MD	Mirant Dickerson	1572	3	461	0	0	0		688	0	688	0
MD	Mirant Dickerson	1572	GT2	77	0	0	0	24	24	0	24	0
MD	Mirant Dickerson	1572	GT3	89	0	0	0	18	18	0	18	0
MD	Mirant Dickerson	1572	OVERDF	0	2,135	0	2,135					2,106
MD	Mirant Morgantown	1573	1	1,231	0	0	0	303	303	0	303	0
MD	Mirant Morgantown	1573	2	1,316	0	0	0	2,724	2,724	0	2,724	0
MD	Mirant Morgantown	1573	GT3	11	0	0	0	92	92	0	92	0
MD	Mirant Morgantown	1573	GT4	13	0	0	0	47	47	0	47	0
MD	Mirant Morgantown	1573	GT5	13	0	0	0	55	55	0	55	0
MD	Mirant Morgantown	1573	GT6	12	0	0	0	56	56	0	56	0
MD	Mirant Morgantown	1573	OVERDF	0	3,321	0	3,321					3,277
MD	Panda Brandywine	54832	1	109	88	76	164	12	12	0	12	12
MD	Panda Brandywine	54832	2	109	109	101	210	20	20	0	20	20
MD	Panda Brandywine	54832	OVERDF	0	0	0	0					0
MD	Perryman	1556	**51	312	0	0	0	9	9	0	9	0
MD	Perryman	1556	CT1	7	0	0	0	7	7	0	7	0
MD	Perryman	1556	CT2	7	0	0	0	3	3	0	3	0
MD	Perryman	1556	CT3	5	0	0	0	19	19	0	19	0
MD	Perryman	1556	CT4	7	0	0	0	5	5	0	5	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MD	Perryman	1556	OVERDF	0	48	0	48					43
MD	R. Paul Smith Power Station	1570	11	119	389	0	389	387	387	0	387	387
MD	R. Paul Smith Power Station	1570	9	7	178	0	178	176	176	0	176	176
MD	R. Paul Smith Power Station	1570	OVERDF	80	5	0	5					0
MD	Riverside	1559	4	26	0	0	0	68	68	0	68	0
MD	Riverside	1559	CT6	9	0	0	0	14	14	0	14	0
MD	Riverside	1559	OVERDF	0	84	0	84					82
MD	Rock Springs Generating Facility	7835	1	0	0	0	0	3	3	0	3	0
MD	Rock Springs Generating Facility	7835	2	0	0	0	0	4	4	0	4	0
MD	Rock Springs Generating Facility	7835	3	0	0	0	0	5	5	0	5	0
MD	Rock Springs Generating Facility	7835	4	0	0	0	0	8	8	0	8	0
MD	Rock Springs Generating Facility	7835	OVERDF	20	20	0	20					20
MD	Vienna	1564	8	129	33	0	33	45	45	0	45	33
MD	Vienna	1564	OVERDF	14	14	0	14					12
MD	Westport	1560	CT5	21	0	0	0	82	82	0	82	0
MD	Westport	1560	OVERDF	0	83	0	83					82
MI	48th Street Peaking Station	7258	**7	14	4	6	10	2	2	0	2	2
MI	48th Street Peaking Station	7258	**8	8	8	6	14	3	3	0	3	3
MI	48th Street Peaking Station	7258	9	27	27	6	33	3	3	0	3	3
MI	48th Street Peaking Station	7258	OVERDF	0	0	0	0					0
MI	B C Cobb	1695	1	14	1	0	1	1	1	0	1	1
MI	B C Cobb	1695	2	19	1	0	1	1	1	0	1	1
MI	B C Cobb	1695	3	15	1	0	1	1	1	0	1	1
MI	B C Cobb	1695	4	356	1,002	0	1,002	1,002	1,002	0	1,002	1,002
MI	B C Cobb	1695	5	385	446	0	446	446	446	0	446	446
MI	B C Cobb	1695	OVERDF	0	28	9	37					0
MI	Belle River	6034	1	1,589	2,016	0	2,016	2,016	2,016	0	2,016	2,016
MI	Belle River	6034	2	1,488	1,748	181	1,929	1,791	1,791	0	1,791	1,748
MI	Belle River	6034	CTG121	9	2	0	2	2	2	0	2	2
MI	Belle River	6034	CTG122	8	2	0	2	2	2	0	2	2
MI	Belle River	6034	CTG131	6	3	0	3	3	3	0	3	3
MI	Belle River	6034	OVERDF	0	0	0	0					0
MI	Connors Creek	1726	15	36	18	0	18	18	18	0	18	18
MI	Connors Creek	1726	16	44	20	0	20	20	20	0	20	20
MI	Connors Creek	1726	17	35	20	0	20	20	20	0	20	20
MI	Connors Creek	1726	18	19	13	0	13	13	13	0	13	13
MI	Connors Creek	1726	OVERDF	0	0	0	0					0
MI	Dan E Karn	1702	1	582	599	0	599	599	599	0	599	599

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MI	Dan E Karn	1702	2	594	294	0	294	294	294	0	294	294
MI	Dan E Karn	1702	CS0009 (3, 4, A, B)				296					
MI	Dan E Karn	1702	3	364	179	0	179		162	0	162	162
MI	Dan E Karn	1702	4	428	118	0	118		118	0	118	118
MI	Dan E Karn	1702	A	11	11	0	11		10	0	10	10
MI	Dan E Karn	1702	B	12	12	0	12		6	0	6	6
MI	Dan E Karn	1702	OVERDF	0	28	10	38					0
MI	Dearborn Industrial Generation	55088	BL1100	115	25	19	44	10	10	0	10	10
MI	Dearborn Industrial Generation	55088	BL2100	100	30	18	48	19	19	0	19	19
MI	Dearborn Industrial Generation	55088	BL3100	107	27	16	43	11	11	0	11	11
MI	Dearborn Industrial Generation	55088	GT2100	335	85	12	97	35	35	0	35	35
MI	Dearborn Industrial Generation	55088	GT3100	260	100	13	113	47	47	0	47	47
MI	Dearborn Industrial Generation	55088	GTP1	21	21	2	23	17	17	0	17	17
MI	Dearborn Industrial Generation	55088	OVERDF	0	0	179	179					0
MI	Delray	1728	CTG111	8	2	0	2	2	2	0	2	2
MI	Delray	1728	CTG121	8	2	0	2	2	2	0	2	2
MI	Delray	1728	OVERDF	0	0	0	0					0
MI	DTE East China	55718	1	10	10	7	17	3	3	0	3	3
MI	DTE East China	55718	2	11	11	5	16	4	4	0	4	4
MI	DTE East China	55718	3	10	10	3	13	3	3	0	3	3
MI	DTE East China	55718	4	9	9	5	14	3	3	0	3	3
MI	DTE East China	55718	OVERDF	0	0	0	0					0
MI	DTE Pontiac North LLC	880081	EUBHB9	1	26	0	26	26	26	0	26	26
MI	Eckert Station	1831	1	78	151	212	363	150	150	0	150	150
MI	Eckert Station	1831	2	78	130	207	337	127	127	0	127	127
MI	Eckert Station	1831	3	79	104	214	318	103	103	0	103	103
MI	Eckert Station	1831	4	163	163	618	781	225	225	0	225	163
MI	Eckert Station	1831	5	151	159	418	577	158	158	0	158	158
MI	Eckert Station	1831	6	357	251	419	670	249	249	0	249	249
MI	Eckert Station	1831	OVERDF	0	0	0	0					0
MI	Endicott Generating	4259	1	188	261	190	451	241	241	0	241	238
MI	Erickson	1832	1	324	424	1,505	1,929	574	574	0	574	424
MI	Graphic Packaging International, Inc.	10698	BLR08	122	119	0	119	54	54	0	54	54
MI	Greenwood	6035	1	449	187	0	187	187	187	0	187	187
MI	Greenwood	6035	CTG111	6	4	0	4	4	4	0	4	4
MI	Greenwood	6035	CTG112	7	4	0	4	4	4	0	4	4
MI	Greenwood	6035	CTG121	6	5	0	5	5	5	0	5	5

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MI	Greenwood	6035	OVERDF	0	0	0	0					0
MI	Hancock Peakers	1730	CTG121	8	0	0	0	0	0	0	0	0
MI	Hancock Peakers	1730	CTG122	8	0	0	0	0	0	0	0	0
MI	Hancock Peakers	1730	OVERDF	0	0	0	0					0
MI	Harbor Beach	1731	1	96	5	0	5	5	5	0	5	5
MI	J B Sims	1825	3	179	217	1	218	217	217	0	217	217
MI	J C Weadock	1720	CS0009 (7, 8)					1,460				
MI	J C Weadock	1720	7	360	803	0	803		803	0	803	803
MI	J C Weadock	1720	8	387	484	719	1,203		657	0	657	484
MI	J C Weadock	1720	OVERDF	0	28	10	38					0
MI	J H Campbell	1710	CS0009 (1, 2)					2,178				
MI	J H Campbell	1710	1	649	752	0	752		752	0	752	752
MI	J H Campbell	1710	2	736	1,426	0	1,426		1,426	0	1,426	1,426
MI	J H Campbell	1710	3	1,858	1,814	14	1,828	1,757	1,757	0	1,757	1,757
MI	J H Campbell	1710	OVERDF	0	48	10	58					0
MI	J R Whiting	1723	1	264	340	521	861	465	465	0	465	340
MI	J R Whiting	1723	2	252	311	533	844	439	439	0	439	311
MI	J R Whiting	1723	3	307	477	154	631	514	514	0	514	477
MI	J R Whiting	1723	OVERDF	0	28	10	38					0
MI	Jackson MI Facility	55270	7EA	31	15	6	21	15	15	0	15	15
MI	Jackson MI Facility	55270	LM1	14	17	5	22	17	17	0	17	17
MI	Jackson MI Facility	55270	LM2	13	16	5	21	16	16	0	16	16
MI	Jackson MI Facility	55270	LM3	13	16	7	23	16	16	0	16	16
MI	Jackson MI Facility	55270	LM4	13	17	5	22	16	16	0	16	16
MI	Jackson MI Facility	55270	LM5	13	17	7	24	16	16	0	16	16
MI	Jackson MI Facility	55270	LM6	12	16	7	23	16	16	0	16	16
MI	Jackson MI Facility	55270	OVERDF	0	35	63	98					0
MI	James De Young	1830	5	124	134	21	155	128	128	0	128	128
MI	Kalamazoo River Generating Station	55101	1	3	3	3	6	1	1	0	1	1
MI	Marysville	1732	CS0001 (9, 10)					0				
MI	Marysville	1732	10	18	0	0	0		0	0	0	0
MI	Marysville	1732	CS0002 (11, 12)					0				
MI	Marysville	1732	11	24	0	0	0		0	0	0	0
MI	Marysville	1732	12	19	0	0	0		0	0	0	0
MI	Marysville	1732	9	14	0	0	0		0	0	0	0
MI	Marysville	1732	OVERDF	0	0	0	0					0
MI	Midland Cogeneration Venture	10745	003	195	0	0	0	55	55	0	55	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MI	Midland Cogeneration Venture	10745	004	192	0	0	0	73	73	0	73	0
MI	Midland Cogeneration Venture	10745	005	208	0	0	0	86	86	0	86	0
MI	Midland Cogeneration Venture	10745	006	198	0	0	0	151	151	0	151	0
MI	Midland Cogeneration Venture	10745	007	179	0	0	0	78	78	0	78	0
MI	Midland Cogeneration Venture	10745	008	212	0	0	0	100	100	0	100	0
MI	Midland Cogeneration Venture	10745	009	198	0	0	0	37	37	0	37	0
MI	Midland Cogeneration Venture	10745	010	198	0	0	0	96	96	0	96	0
MI	Midland Cogeneration Venture	10745	011	197	0	0	0	134	134	0	134	0
MI	Midland Cogeneration Venture	10745	012	199	0	0	0	96	96	0	96	0
MI	Midland Cogeneration Venture	10745	013	231	0	0	0	86	86	0	86	0
MI	Midland Cogeneration Venture	10745	014	194	0	0	0	77	77	0	77	0
MI	Midland Cogeneration Venture	10745	OVERDF	0	1,101	0	1,101					1,069
MI	Mistersky	1822	5	30	30	39	69	14	14	0	14	14
MI	Mistersky	1822	6	59	59	0	59	36	36	0	36	36
MI	Mistersky	1822	7	96	96	82	178	7	7	0	7	7
MI	Mistersky	1822	GT-1	50	50	39	89	1	1	0	1	1
MI	Mistersky	1822	OVERDF	0	0	0	0					0
MI	Monroe	1733	CS0012 (1, 2)					5,967				
MI	Monroe	1733	1	1,286	2,784	1,722	4,506		3,197	0	3,197	2,784
MI	Monroe	1733	2	1,377	2,328	1,838	4,166		2,770	0	2,770	2,328
MI	Monroe	1733	CS0034 (3, 4)					1,325				
MI	Monroe	1733	3	1,600	671	0	671		670	0	670	670
MI	Monroe	1733	4	1,671	655	0	655		655	0	655	655
MI	Monroe	1733	OVERDF	0	0	0	0					0
MI	New Covert Generating Project	55297	001	48	48	0	48	10	10	38	48	48
MI	New Covert Generating Project	55297	002	48	51	0	51	15	15	36	51	51
MI	New Covert Generating Project	55297	003	49	53	0	53	13	13	40	53	53
MI	New Covert Generating Project	55297	OVERDF	0	0	2	2					0
MI	Otsego Paper, Inc.	55799	0024	78	78	22	100	0	0	0	0	0
MI	Otsego Paper, Inc.	55799	0025	82	82	29	111	0	0	0	0	0
MI	Otsego Paper, Inc.	55799	OVERDF	0	0	0	0					0
MI	Renaissance Power	55402	CT1	13	14	7	21	18	18	0	18	14
MI	Renaissance Power	55402	CT2	12	13	5	18	16	16	0	16	13
MI	Renaissance Power	55402	CT3	6	11	10	21	17	17	0	17	11
MI	Renaissance Power	55402	CT4	11	9	10	19	15	15	0	15	9
MI	Renaissance Power	55402	OVERDF	0	8	0	8					0
MI	River Rouge	1740	1	44	44	0	44	0	0	0	0	0
MI	River Rouge	1740	2	537	663	0	663	663	663	0	663	663

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MI	River Rouge	1740	3	565	1,412	0	1,412	1,412	1,412	0	1,412	1,412
MI	River Rouge	1740	OVERDF	0	0	0	0					0
MI	St. Clair	1743	1	314	743	0	743	743	743	0	743	743
MI	St. Clair	1743	2	302	615	0	615	615	615	0	615	615
MI	St. Clair	1743	3	292	820	0	820	820	820	0	820	820
MI	St. Clair	1743	4	314	676	0	676	676	676	0	676	676
MI	St. Clair	1743	6	566	586	0	586	586	586	0	586	586
MI	St. Clair	1743	7	863	1,037	0	1,037	1,037	1,037	0	1,037	1,037
MI	St. Clair	1743	OVERDF	0	0	0	0					0
MI	Sumpter Plant	7972	1	13	13	1	14	2	2	0	2	2
MI	Sumpter Plant	7972	2	12	12	2	14	2	2	0	2	2
MI	Sumpter Plant	7972	3	12	12	2	14	2	2	0	2	2
MI	Sumpter Plant	7972	4	12	12	2	14	3	3	0	3	3
MI	Sumpter Plant	7972	OVERDF	0	0	32	32					0
MI	T B Simon Power Plant	10328	UNIT1	95	0	0	0	82	82	0	82	0
MI	T B Simon Power Plant	10328	UNIT2	84	0	0	0	71	71	0	71	0
MI	T B Simon Power Plant	10328	UNIT3	216	0	0	0	103	103	0	103	0
MI	T B Simon Power Plant	10328	UNIT4	143	0	0	0	60	60	0	60	0
MI	T B Simon Power Plant	10328	OVERDF	0	323	0	323					316
MI	The Dow Chemical Company	880031	0401	2	4	1	5	3	3	0	3	3
MI	The Dow Chemical Company	880031	0402	2	2	3	5	3	3	0	3	2
MI	The Dow Chemical Company	880031	OVERDF	0	0	0	0					0
MI	Thetford	1719	1	5	5	0	5	5	5	0	5	5
MI	Thetford	1719	2	5	3	0	3	3	3	0	3	3
MI	Thetford	1719	3	5	6	0	6	6	6	0	6	6
MI	Thetford	1719	4	4	4	0	4	2	2	0	2	2
MI	Thetford	1719	OVERDF	0	4	5	9					0
MI	Trenton Channel	1745	CS0006 (16, 17, 18, 19)					1,401				
MI	Trenton Channel	1745	16	144	345	0	345		345	0	345	345
MI	Trenton Channel	1745	17	129	371	0	371		371	0	371	371
MI	Trenton Channel	1745	18	125	355	0	355		355	0	355	355
MI	Trenton Channel	1745	19	135	331	0	331		330	0	330	330
MI	Trenton Channel	1745	9A	972	1,049	0	1,049	1,049	1,049	0	1,049	1,049
MI	Trenton Channel	1745	OVERDF	0	0	0	0					0
MI	University of Michigan	880045	260-03	30	30	12	42	39	39	0	39	30
MI	University of Michigan	880045	260-04	61	11	15	26	10	10	0	10	6
MI	University of Michigan	880045	260-06	45	35	8	43	13	13	0	13	11

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MI	University of Michigan	880045	OVERDF	0	10	0	10					1
MI	Wyandotte	1866	5	8	0	0	0	0	0	0	0	0
MI	Wyandotte	1866	7	96	255	2	257	255	255	0	255	254
MI	Wyandotte	1866	8	111	32	2	34	32	32	0	32	31
MI	Wyandotte	1866	OVERDF	0	0	0	0					0
MI	Zeeland Generating Station	55087	CC1	5	9	7	16	8	8	0	8	7
MI	Zeeland Generating Station	55087	CC2	5	9	0	9	8	8	0	8	8
MI	Zeeland Generating Station	55087	CC3	31	27	0	27	21	21	0	21	21
MI	Zeeland Generating Station	55087	CC4	31	27	0	27	23	23	0	23	23
MI	Zeeland Generating Station	55087	OVERDF	0	0	0	0					0
MO	Anheuser-Busch, Inc.	10430	6	14	14	0	14	2	2	0	2	2
MO	Essex Power Plant	7749	1	0	6	0	6	5	5	0	5	5
MO	Labadie	2103	1	1,912	1,412	0	1,412	986	986	0	986	986
MO	Labadie	2103	2	2,060	1,440	0	1,440	985	985	0	985	985
MO	Labadie	2103	3	2,262	1,562	0	1,562	1,075	1,075	0	1,075	1,075
MO	Labadie	2103	4	1,990	1,490	0	1,490	1,065	1,065	0	1,065	1,065
MO	Labadie	2103	OVERDF	0	0	0	0					0
MO	Meramec	2104	1	150	470	0	470	265	265	0	265	265
MO	Meramec	2104	2	151	451	0	451	229	229	0	229	229
MO	Meramec	2104	3	154	1,154	0	1,154	883	883	0	883	883
MO	Meramec	2104	4	396	1,396	0	1,396	1,121	1,121	0	1,121	1,121
MO	Meramec	2104	OVERDF	0	0	0	0					0
MO	New Madrid Power Plant	2167	1	1,382	1,054	0	1,054	1,049	1,049	0	1,049	1,049
MO	New Madrid Power Plant	2167	2	1,641	832	0	832	827	827	0	827	827
MO	New Madrid Power Plant	2167	OVERDF	0	0	0	0					0
MO	Peno Creek Energy Center	7964	CT1A	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	CT1B	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	CT2A	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	CT2B	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	CT3A	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	CT3B	0	25	0	25	8	8	0	8	8
MO	Peno Creek Energy Center	7964	CT4A	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	CT4B	0	25	0	25	7	7	0	7	7
MO	Peno Creek Energy Center	7964	OVERDF	0	25	0	25					0
MO	Rush Island	6155	1	2,352	1,102	0	1,102	672	672	0	672	672
MO	Rush Island	6155	2	2,093	1,143	0	1,143	722	722	0	722	722
MO	Rush Island	6155	OVERDF	0	0	0	0					0
MO	Sikeston	6768	1	0	1,225	0	1,225	1,165	1,165	0	1,165	1,165

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
MO	Sioux	2107	1	817	1,417	0	1,417	959	959	0	959	959
MO	Sioux	2107	2	733	1,303	0	1,303	863	863	0	863	863
MO	Sioux	2107	OVERDF	0	0	0	0					0
MO	St. Francis Power Plant	7604	1	0	20	0	20	17	17	0	17	17
MO	St. Francis Power Plant	7604	2	0	18	0	18	15	15	0	15	15
MO	St. Francis Power Plant	7604	OVERDF	0	0	0	0					0
MO	Trigen St. Louis Energy	880094	EU0060	9	9	0	9	0	0	0	0	0
MO	Trigen St. Louis Energy	880094	EU0070	36	36	0	36	0	0	0	0	0
MO	Trigen St. Louis Energy	880094	OVERDF	0	0	0	0					0
NC	Asheville	2706	1	519	318	0	318	317	317	0	317	317
NC	Asheville	2706	2	507	167	0	167	165	165	0	165	165
NC	Asheville	2706	3	75	32	0	32	31	31	0	31	31
NC	Asheville	2706	4	75	47	0	47	46	46	0	46	46
NC	Asheville	2706	OVERDF	0	39	24	63					0
NC	Belews Creek	8042	1	2,441	0	0	0	433	433	0	433	0
NC	Belews Creek	8042	2	2,846	0	0	0	810	810	0	810	0
NC	Belews Creek	8042	OVERDF	0	1,209	189	1,398					1,209
NC	Blue Ridge Paper Products Inc.	50244	B4	244	0	0	0	198	198	0	198	0
NC	Blue Ridge Paper Products Inc.	50244	BB	141	0	0	0	148	148	0	148	0
NC	Blue Ridge Paper Products Inc.	50244	PG	125	0	0	0	174	174	0	174	0
NC	Blue Ridge Paper Products Inc.	50244	RB	90	0	0	0	168	168	0	168	0
NC	Blue Ridge Paper Products Inc.	50244	RC	239	0	0	0	242	242	0	242	0
NC	Blue Ridge Paper Products Inc.	50244	OVERDF	0	939	5	944					930
NC	Buck	2720	5	63	0	0	0	73	73	0	73	0
NC	Buck	2720	6	69	0	0	0	79	79	0	79	0
NC	Buck	2720	7	73	0	0	0	83	83	0	83	0
NC	Buck	2720	7C	0	0	0	0	10	10	0	10	0
NC	Buck	2720	8	300	0	0	0	246	246	0	246	0
NC	Buck	2720	8C	0	0	0	0	10	10	0	10	0
NC	Buck	2720	9	318	0	0	0	241	241	0	241	0
NC	Buck	2720	9C	0	0	0	0	5	5	0	5	0
NC	Buck	2720	OVERDF	0	725	113	838					725
NC	Butler-Warner Generation Plant	1016	GT-1	49	49	44	93	27	27	0	27	27
NC	Butler-Warner Generation Plant	1016	GT-2	49	49	49	98	20	20	0	20	20
NC	Butler-Warner Generation Plant	1016	GT-3	49	49	52	101	15	15	0	15	15
NC	Butler-Warner Generation Plant	1016	GT-4	63	63	119	182	3	3	0	3	3
NC	Butler-Warner Generation Plant	1016	GT-5	63	63	114	177	2	2	0	2	2
NC	Butler-Warner Generation Plant	1016	GT-6	52	52	59	111	20	20	0	20	20



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NC	Butler-Warner Generation Plant	1016	GT-7	49	49	57	106	15	15	0	15	15
NC	Butler-Warner Generation Plant	1016	GT-8	49	49	50	99	26	26	0	26	26
NC	Butler-Warner Generation Plant	1016	OVERDF	0	0	0	0					0
NC	Cape Fear	2708	5	270	362	0	362	361	361	0	361	361
NC	Cape Fear	2708	6	382	511	0	511	510	510	0	510	510
NC	Cape Fear	2708	OVERDF	0	61	15	76					0
NC	Cliffside	2721	1	71	0	0	0	136	136	0	136	0
NC	Cliffside	2721	2	77	0	0	0	152	152	0	152	0
NC	Cliffside	2721	3	101	0	0	0	256	256	0	256	0
NC	Cliffside	2721	4	113	0	0	0	224	224	0	224	0
NC	Cliffside	2721	5	1,249	0	0	0	380	380	0	380	0
NC	Cliffside	2721	OVERDF	0	1,117	176	1,293					1,117
NC	Coastal Carolina Clean Power LLC	10381	CS001 (BLR01A, BLR01B)					0				
NC	Coastal Carolina Clean Power LLC	10381	BLR01A	113	0	1	1		0	0	0	0
NC	Coastal Carolina Clean Power LLC	10381	BLR01B	0	0	1	1		0	0	0	0
NC	Coastal Carolina Clean Power LLC	10381	OVERDF	0	0	0	0					0
NC	Dan River	2723	1	124	0	0	0	286	286	0	286	0
NC	Dan River	2723	2	135	0	0	0	207	207	0	207	0
NC	Dan River	2723	3	286	0	0	0	224	224	0	224	0
NC	Dan River	2723	4C	0	0	0	0	10	10	0	10	0
NC	Dan River	2723	5C	0	0	0	0	10	10	0	10	0
NC	Dan River	2723	6C	0	0	0	0	9	9	0	9	0
NC	Dan River	2723	OVERDF	0	724	115	839					724
NC	Domtar Paper Company LLC - Plymouth	50189	1	379	4	0	4	0	0	0	0	0
<b>NC</b>	<b>Domtar Paper Company LLC - Plymouth<sup>3</sup></b>	<b>50189</b>	<b>9</b>	<b>25</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>4</b>	<b>0</b>	<b>4</b>	<b>0</b>
NC	Domtar Paper Company LLC - Plymouth	50189	OVERDF	0	0	0	0					0
NC	Edgecombe Genco, LLC	10384	CS001 (BLR01A, BLR01B)					339				
NC	Edgecombe Genco, LLC	10384	BLR01A	351	0	15	15		170	0	170	0
NC	Edgecombe Genco, LLC	10384	BLR01B	0	0	0	0		169	0	169	0
NC	Edgecombe Genco, LLC	10384	CS002 (BLR02A, BLR02B)					351				
NC	Edgecombe Genco, LLC	10384	BLR02A	0	0	0	0		176	0	176	0
NC	Edgecombe Genco, LLC	10384	BLR02B	0	0	0	0		175	0	175	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NC	Edgecombe Genco, LLC	10384	OVERDF	0	696	22	718					680
NC	Elizabethtown Power	10380	CS1 (UNIT1, UNIT2)				10					
NC	Elizabethtown Power	10380	UNIT1	126	0	0	0	5	0	5		0
NC	Elizabethtown Power	10380	UNIT2	0	0	0	0	5	0	5		0
NC	Elizabethtown Power	10380	OVERDF	0	8	9	17					8
NC	G G Allen	2718	1	329	0	0	0	343	343	0	343	0
NC	G G Allen	2718	2	334	0	0	0	366	366	0	366	0
NC	G G Allen	2718	3	556	0	0	0	581	581	0	581	0
NC	G G Allen	2718	4	497	0	0	0	558	558	0	558	0
NC	G G Allen	2718	5	544	0	0	0	775	775	0	775	0
NC	G G Allen	2718	OVERDF	0	2,552	399	2,951					2,552
NC	H F Lee Steam Electric Plant	2709	1	137	491	0	491	490	490	0	490	490
NC	H F Lee Steam Electric Plant	2709	10	31	22	0	22	21	21	0	21	21
NC	H F Lee Steam Electric Plant	2709	11	31	18	0	18	17	17	0	17	17
NC	H F Lee Steam Electric Plant	2709	12	115	15	0	15	14	14	0	14	14
NC	H F Lee Steam Electric Plant	2709	13	115	17	0	17	17	17	0	17	17
NC	H F Lee Steam Electric Plant	2709	2	150	355	0	355	354	354	0	354	354
NC	H F Lee Steam Electric Plant	2709	3	438	952	0	952	951	951	0	951	951
NC	H F Lee Steam Electric Plant	2709	5	0	14	0	14	13	13	0	13	13
NC	H F Lee Steam Electric Plant	2709	6	0	13	0	13	12	12	0	12	12
NC	H F Lee Steam Electric Plant	2709	7	0	11	0	11	10	10	0	10	10
NC	H F Lee Steam Electric Plant	2709	OVERDF	0	133	30	163					0
NC	International Paper-Riegelwood	54656	003	84	39	3	42	37	37	0	37	37
NC	International Paper-Riegelwood	54656	OVERDF	0	0	0	0					0
NC	KapStone Paper and Packaging Corp	50254	001	346	496	34	530	495	495	0	495	495
NC	L V Sutton	2713	CS0002 (1, 2)					901				
NC	L V Sutton	2713	1	171	452	0	452		450	0	450	450
NC	L V Sutton	2713	2	186	452	0	452		451	0	451	451
NC	L V Sutton	2713	2A	0	3	0	3	2	2	0	2	2
NC	L V Sutton	2713	2B	0	3	0	3	2	2	0	2	2
NC	L V Sutton	2713	3	759	1,179	0	1,179	1,178	1,178	0	1,178	1,178
NC	L V Sutton	2713	OVERDF	0	145	33	178					0
NC	Lincoln	7277	1	26	0	0	0	6	6	0	6	0
NC	Lincoln	7277	10	26	0	0	0	7	7	0	7	0
NC	Lincoln	7277	11	26	0	0	0	4	4	0	4	0
NC	Lincoln	7277	12	26	0	0	0	6	6	0	6	0
NC	Lincoln	7277	13	26	0	0	0	5	5	0	5	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NC	Lincoln	7277	14	26	0	0	0	4	4	0	4	0
NC	Lincoln	7277	15	26	0	0	0	4	4	0	4	0
NC	Lincoln	7277	16	27	0	0	0	5	5	0	5	0
NC	Lincoln	7277	2	26	0	0	0	8	8	0	8	0
NC	Lincoln	7277	3	26	0	0	0	4	4	0	4	0
NC	Lincoln	7277	4	26	0	0	0	4	4	0	4	0
NC	Lincoln	7277	5	26	0	0	0	8	8	0	8	0
NC	Lincoln	7277	6	26	0	0	0	3	3	0	3	0
NC	Lincoln	7277	7	26	0	0	0	4	4	0	4	0
NC	Lincoln	7277	8	26	0	0	0	3	3	0	3	0
NC	Lincoln	7277	9	26	0	0	0	6	6	0	6	0
NC	Lincoln	7277	OVERDF	0	79	13	92					79
NC	Lumberton Power	10382	CS1 (UNIT1, UNIT2)					27				
NC	Lumberton Power	10382	UNIT1	125	0	0	0		14	0	14	0
NC	Lumberton Power	10382	UNIT2	0	0	0	0		13	0	13	0
NC	Lumberton Power	10382	OVERDF	0	27	2	29					27
NC	Marshall	2727	CS001 (1, 2)					2,225				
NC	Marshall	2727	1	952	0	0	0		1,112	0	1,112	0
NC	Marshall	2727	2	994	0	0	0		1,113	0	1,113	0
NC	Marshall	2727	3	1,680	0	0	0	1,926	1,926	0	1,926	0
NC	Marshall	2727	4	1,662	0	0	0	1,944	1,944	0	1,944	0
NC	Marshall	2727	OVERDF	0	5,928	921	6,849					5,928
NC	Mayo	6250	CS0005 (1A, 1B)					576				
NC	Mayo	6250	1A	1,872	289	0	289		288	0	288	288
NC	Mayo	6250	1B	0	288	0	288		288	0	288	288
NC	Mayo	6250	OVERDF	0	40	9	49					0
NC	NCEMC Anson Plant	56249	ES1-A	0	0	0	0	3	3	0	3	0
NC	NCEMC Anson Plant	56249	ES1-B	0	0	0	0	3	3	0	3	0
NC	NCEMC Anson Plant	56249	ES2-A	0	0	0	0	3	3	0	3	0
NC	NCEMC Anson Plant	56249	ES2-B	0	0	0	0	3	3	0	3	0
NC	NCEMC Anson Plant	56249	ES3-A	0	0	0	0	5	5	0	5	0
NC	NCEMC Anson Plant	56249	ES3-B	0	0	0	0	5	5	0	5	0
NC	NCEMC Anson Plant	56249	ES4-A	0	0	0	0	3	3	0	3	0
NC	NCEMC Anson Plant	56249	ES4-B	0	0	0	0	3	3	0	3	0
NC	NCEMC Anson Plant	56249	ES5-A	0	0	0	0	9	9	0	9	0
NC	NCEMC Anson Plant	56249	ES5-B	0	0	0	0	9	9	0	9	0
NC	NCEMC Anson Plant	56249	ES6-A	0	0	0	0	16	16	0	16	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NC	NCEMC Anson Plant	56249	ES6-B	0	0	0	0	16	16	0	16	0
NC	NCEMC Anson Plant	56249	OVERDF	78	78	0	78					78
NC	NCEMC Hamlet Plant	56292	ES1-A	0	0	0	0	1	1	0	1	0
NC	NCEMC Hamlet Plant	56292	ES1-B	0	0	0	0	0	0	0	0	0
NC	NCEMC Hamlet Plant	56292	ES2-A	0	0	0	0	1	1	0	1	0
NC	NCEMC Hamlet Plant	56292	ES2-B	0	0	0	0	0	0	0	0	0
NC	NCEMC Hamlet Plant	56292	ES3-A	0	0	0	0	0	0	0	0	0
NC	NCEMC Hamlet Plant	56292	ES3-B	0	0	0	0	0	0	0	0	0
NC	NCEMC Hamlet Plant	56292	ES4-A	0	0	0	0	1	1	0	1	0
NC	NCEMC Hamlet Plant	56292	ES4-B	0	0	0	0	0	0	0	0	0
NC	NCEMC Hamlet Plant	56292	OVERDF	3	3	0	3					3
NC	Plant Rowan County	7826	1	27	12	19	31	12	12	0	12	12
NC	Plant Rowan County	7826	2	27	13	19	32	13	13	0	13	13
NC	Plant Rowan County	7826	3	27	11	20	31	11	11	0	11	11
NC	Plant Rowan County	7826	4	27	20	9	29	20	20	0	20	20
NC	Plant Rowan County	7826	5	28	17	12	29	17	17	0	17	17
NC	Plant Rowan County	7826	OVERDF	0	7	3	10					0
NC	Primary Energy Roxboro	10379	CS001 (BLR01A, BLR01B, BLR01C)					202				
NC	Primary Energy Roxboro	10379	BLR01A	192	48	0	48		67	0	67	48
NC	Primary Energy Roxboro	10379	BLR01B	0	0	0	0		67	0	67	0
NC	Primary Energy Roxboro	10379	BLR01C	0	0	0	0		68	0	68	0
NC	Primary Energy Roxboro	10379	OVERDF	0	150	10	160					150
NC	Primary Energy Southport	10378	CS001 (BLR01A, BLR01B, BLR01C)					269				
NC	Primary Energy Southport	10378	BLR01A	392	99	0	99		90	0	90	90
NC	Primary Energy Southport	10378	BLR01B	0	0	0	0		90	0	90	0
NC	Primary Energy Southport	10378	BLR01C	0	0	0	0		89	0	89	0
NC	Primary Energy Southport	10378	CS002 (BLR02A, BLR02B, BLR02C)					274				
NC	Primary Energy Southport	10378	BLR02A	0	0	0	0		91	0	91	0
NC	Primary Energy Southport	10378	BLR02B	0	0	0	0		91	0	91	0
NC	Primary Energy Southport	10378	BLR02C	0	0	0	0		92	0	92	0
NC	Primary Energy Southport	10378	OVERDF	0	450	17	467					450

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NC	Richmond County Plant	7805	1	27	21	0	21	20	20	0	20	20
NC	Richmond County Plant	7805	2	27	15	0	15	14	14	0	14	14
NC	Richmond County Plant	7805	3	27	19	0	19	18	18	0	18	18
NC	Richmond County Plant	7805	4	27	20	0	20	20	20	0	20	20
NC	Richmond County Plant	7805	6	27	23	0	23	22	22	0	22	22
NC	Richmond County Plant	7805	7	28	17	0	17	16	16	0	16	16
NC	Richmond County Plant	7805	8	0	21	0	21	20	20	0	20	20
NC	Richmond County Plant	7805	OVERDF	0	9	13	22					0
NC	Riverbend	2732	10	282	0	0	0	308	308	0	308	0
NC	Riverbend	2732	10C	0	0	0	0	7	7	0	7	0
NC	Riverbend	2732	11C	0	0	0	0	2	2	0	2	0
NC	Riverbend	2732	7	204	0	0	0	241	241	0	241	0
NC	Riverbend	2732	8	212	0	0	0	259	259	0	259	0
NC	Riverbend	2732	8C	0	0	0	0	6	6	0	6	0
NC	Riverbend	2732	9	268	0	0	0	295	295	0	295	0
NC	Riverbend	2732	9C	0	0	0	0	8	8	0	8	0
NC	Riverbend	2732	OVERDF	0	1,093	171	1,264					1,093
NC	Rockingham County Combustion Turbine	55116	CT1	42	0	0	0	11	11	0	11	0
NC	Rockingham County Combustion Turbine	55116	CT2	42	0	0	0	14	14	0	14	0
NC	Rockingham County Combustion Turbine	55116	CT3	42	0	0	0	9	9	0	9	0
NC	Rockingham County Combustion Turbine	55116	CT4	41	0	0	0	18	18	0	18	0
NC	Rockingham County Combustion Turbine	55116	CT5	41	0	0	0	17	17	0	17	0
NC	Rockingham County Combustion Turbine	55116	OVERDF	0	70	13	83					69
NC	Rosemary Power Station	50555	1	32	0	0	0	33	33	0	33	0
NC	Rosemary Power Station	50555	2	23	0	0	0	24	24	0	24	0
NC	Rosemary Power Station	50555	OVERDF	0	50	28	78					50
NC	Roxboro	2712	1	811	466	0	466	465	465	0	465	465
NC	Roxboro	2712	2	1,509	505	0	505	505	505	0	505	505
NC	Roxboro	2712	CS0003 (3A, 3B)					820				
NC	Roxboro	2712	3A	1,669	821	0	821		820	0	820	820
NC	Roxboro	2712	3B	0	0	0	0		0	0	0	0
NC	Roxboro	2712	CS0004 (4A, 4B)					724				
NC	Roxboro	2712	4A	1,599	725	0	725		724	0	724	724
NC	Roxboro	2712	4B	0	0	0	0		0	0	0	0
NC	Roxboro	2712	OVERDF	0	147	38	185					0
NC	University of NC Chapel Hill	54276	ES001	128	0	0	0	77	77	0	77	0
NC	University of NC Chapel Hill	54276	ES002	0	0	0	0	81	81	0	81	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NC	University of NC Chapel Hill	54276	ES003	113	0	0	0	1	1	0	1	0
NC	University of NC Chapel Hill	54276	OVERDF	0	241	47	288					159
NC	W H Weatherspoon	2716	CS0001 (1, 2)					1,034				
NC	W H Weatherspoon	2716	1	80	518	0	518		517	0	517	517
NC	W H Weatherspoon	2716	2	91	518	0	518		517	0	517	517
NC	W H Weatherspoon	2716	3	170	501	0	501	500	500	0	500	500
NC	W H Weatherspoon	2716	4	0	2	0	2	1	1	0	1	1
NC	W H Weatherspoon	2716	5	0	3	0	3	2	2	0	2	2
NC	W H Weatherspoon	2716	6	0	2	0	2	1	1	0	1	1
NC	W H Weatherspoon	2716	7	0	2	0	2	1	1	0	1	1
NC	W H Weatherspoon	2716	OVERDF	0	105	22	127					0
NC	Westmoreland-LG&E Roanoke Valley I	54035	1	493	703	5	708	690	690	0	690	690
NC	Westmoreland-LG&E Roanoke Valley II	54755	2	167	107	0	107	103	103	0	103	103
NC	Weyerhaeuser - New Bern	50188	105	72	10	0	10	8	8	0	8	8
NC	Weyerhaeuser - New Bern	50188	6	121	121	0	121	116	116	0	116	116
NC	Weyerhaeuser - New Bern	50188	OVERDF	0	0	37	37					0
NJ	AES Red Oak	55239	1	24	24	0	24	24	24	0	24	24
NJ	AES Red Oak	55239	2	28	28	0	28	28	28	0	28	28
NJ	AES Red Oak	55239	3	28	28	0	28	28	28	0	28	28
NJ	B L England	2378	1	190	1,051	90	1,141	1,031	1,031	0	1,031	1,031
NJ	B L England	2378	2	203	805	117	922	815	815	0	815	805
NJ	B L England	2378	3	104	46	24	70	56	56	0	56	46
NJ	Bayonne Plant Holding, LLC	50497	001001	28	6	0	6	6	6	0	6	6
<b>NJ</b>	<b>Bayonne Plant Holding, LLC<sup>4</sup></b>	<b>50497</b>	<b>002001</b>	<b>29</b>	<b>6</b>	<b>0</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>6</b>
<b>NJ</b>	<b>Bayonne Plant Holding, LLC<sup>4</sup></b>	<b>50497</b>	<b>004001</b>	<b>29</b>	<b>5</b>	<b>0</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>0</b>	<b>7</b>	<b>5</b>
NJ	Bayway Refinery	880016	010001	140	90	63	153	63	63	0	63	42
NJ	Bayway Refinery	880016	010003	97	47	49	96	42	42	0	42	42
NJ	Bergen	2398	1101	45	45	3	48	32	32	0	32	32
NJ	Bergen	2398	1201	63	30	5	35	30	30	0	30	30
NJ	Bergen	2398	1301	59	47	3	50	45	45	0	45	45
NJ	Bergen	2398	1401	53	53	4	57	45	45	0	45	45
NJ	Bergen	2398	2101	11	11	19	30	11	11	0	11	11
NJ	Bergen	2398	2201	16	16	24	40	16	16	0	16	16
NJ	Bergen	2398	3001	1	7	1	8	8	8	0	8	7
NJ	Burlington Generating Station	2399	12001	2	5	1	6	5	5	0	5	5
NJ	Burlington Generating Station	2399	121	15	15	12	27	15	15	0	15	15
NJ	Burlington Generating Station	2399	122	14	15	1	16	14	14	0	14	14
NJ	Burlington Generating Station	2399	123	15	15	9	24	15	15	0	15	15

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NJ	Burlington Generating Station	2399	124	12	12	9	21	12	12	0	12	12
NJ	Burlington Generating Station	2399	14001	1	5	0	5	5	5	0	5	5
NJ	Burlington Generating Station	2399	16001	1	5	1	6	4	4	0	4	4
NJ	Burlington Generating Station	2399	18001	2	5	1	6	5	5	0	5	5
NJ	Burlington Generating Station	2399	28001	2	7	1	8	8	8	0	8	7
NJ	Burlington Generating Station	2399	30001	2	10	1	11	9	9	0	9	9
NJ	Burlington Generating Station	2399	32001	2	7	2	9	8	8	0	8	7
NJ	Burlington Generating Station	2399	34001	2	6	2	8	7	7	0	7	6
NJ	Burlington Generating Station	2399	4001	0	1	0	1	1	1	0	1	1
NJ	Calpine Newark Cogeneration	50797	001001	43	0	3	3	0	0	0	0	0
NJ	Camden Plant Holding, LLC	10751	002001	39	29	0	29	29	29	0	29	29
NJ	Carlls Corner Station	2379	002001	7	25	0	25	24	24	0	24	24
NJ	Carlls Corner Station	2379	003001	8	19	0	19	18	18	0	18	18
NJ	Carneys Point	10566	1001	367	367	42	409	367	367	0	367	367
NJ	Carneys Point	10566	1002	356	356	42	398	356	356	0	356	356
NJ	Cedar Station	2380	002001	7	2	0	2	1	1	0	1	1
NJ	Cedar Station	2380	003001	7	2	0	2	1	1	0	1	1
NJ	Cedar Station	2380	004001	7	2	0	2	1	1	0	1	1
NJ	Cumberland	5083	004001	20	14	0	14	13	13	0	13	13
NJ	Deepwater	2384	1	25	12	0	12	11	11	0	11	11
NJ	Deepwater	2384	8	157	389	54	443	418	418	0	418	389
NJ	DSM Nutritional Products, Inc	54416	189003	48	48	0	48	0	0	0	0	0
NJ	E F Kenilworth, Inc.	10805	002001	52	45	22	67	45	45	0	45	45
NJ	Edison	2400	1001	5	30	1	31	30	30	0	30	30
NJ	Edison	2400	11001	3	12	1	13	13	13	0	13	12
NJ	Edison	2400	13001	3	5	1	6	6	6	0	6	5
NJ	Edison	2400	15001	3	8	1	9	9	9	0	9	8
NJ	Edison	2400	17001	5	12	1	13	11	11	0	11	11
NJ	Edison	2400	19001	4	20	1	21	21	21	0	21	20
NJ	Edison	2400	21001	5	11	3	14	13	13	0	13	11
NJ	Edison	2400	23001	5	24	1	25	25	25	0	25	24
NJ	Edison	2400	3001	6	22	1	23	22	22	0	22	22
NJ	Edison	2400	5001	7	27	0	27	27	27	0	27	27
NJ	Edison	2400	7001	7	23	1	24	24	24	0	24	23
NJ	Edison	2400	9001	3	8	1	9	9	9	0	9	8
NJ	EFS Parlin Holdings, LLC	50799	001001	5	5	10	15	0	0	0	0	0
NJ	EFS Parlin Holdings, LLC	50799	003001	14	0	6	6	0	0	0	0	0
NJ	Essex	2401	10001	6	48	1	49	49	49	0	49	48

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NJ	Essex	2401	12001	6	43	1	44	44	44	0	44	43
NJ	Essex	2401	14001	6	32	1	33	32	32	0	32	32
NJ	Essex	2401	16001	4	26	0	26	25	25	0	25	25
NJ	Essex	2401	18001	4	28	0	28	27	27	0	27	27
NJ	Essex	2401	20001	4	1	0	1	0	0	0	0	0
NJ	Essex	2401	2001	6	48	0	48	47	47	0	47	47
NJ	Essex	2401	22001	5	43	1	44	43	43	0	43	43
NJ	Essex	2401	24001	5	39	7	46	42	42	0	42	39
NJ	Essex	2401	26001	4	40	1	41	40	40	0	40	40
NJ	Essex	2401	28001	4	43	1	44	42	42	0	42	42
NJ	Essex	2401	35001	21	21	3	24	13	13	0	13	13
NJ	Essex	2401	4001	6	47	1	48	48	48	0	48	47
NJ	Gilbert Generating Station	2393	015001	1	1	0	1	0	0	0	0	0
NJ	Gilbert Generating Station	2393	016001	1	1	0	1	0	0	0	0	0
NJ	Gilbert Generating Station	2393	017001	1	1	0	1	0	0	0	0	0
NJ	Gilbert Generating Station	2393	018001	1	1	0	1	0	0	0	0	0
NJ	Gilbert Generating Station	2393	04	27	6	0	6	4	4	0	4	4
NJ	Gilbert Generating Station	2393	05	26	6	0	6	4	4	0	4	4
NJ	Gilbert Generating Station	2393	06	26	5	0	5	3	3	0	3	3
NJ	Gilbert Generating Station	2393	07	26	6	0	6	4	4	0	4	4
NJ	Gilbert Generating Station	2393	9	13	6	0	6	4	4	0	4	4
NJ	Glen Gardner	8227	003001	1	3	0	3	2	2	0	2	2
NJ	Glen Gardner	8227	004001	1	3	0	3	2	2	0	2	2
NJ	Glen Gardner	8227	005001	1	3	0	3	2	2	0	2	2
NJ	Glen Gardner	8227	006001	1	3	0	3	2	2	0	2	2
NJ	Glen Gardner	8227	007001	1	3	0	3	2	2	0	2	2
NJ	Glen Gardner	8227	008001	1	3	0	3	2	2	0	2	2
NJ	Glen Gardner	8227	009001	1	2	0	2	1	1	0	1	1
NJ	Glen Gardner	8227	010001	1	3	0	3	2	2	0	2	2
NJ	Howard M Down	2434	005001	6	35	0	35	0	0	0	0	0
NJ	Howard M Down	2434	006001	25	0	424	424	77	77	0	77	0
NJ	Hudson Generating Station	2403	1	192	32	12	44	35	35	0	35	32
NJ	Hudson Generating Station	2403	2	902	1,075	71	1,146	1,115	1,115	0	1,115	1,075
NJ	JCP & L Forked River	7138	002001	10	10	15	25	4	4	0	4	4
NJ	JCP & L Forked River	7138	003001	9	9	8	17	1	1	0	1	1
NJ	Kearny Generating Station	2404	121	16	16	20	36	13	13	0	13	13
NJ	Kearny Generating Station	2404	122	16	16	29	45	11	11	0	11	11
NJ	Kearny Generating Station	2404	123	14	14	28	42	12	12	0	12	12



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NJ	Kearny Generating Station	2404	124	13	13	36	49	12	12	0	12	12
NJ	Kearny Generating Station	2404	15001	1	14	1	15	15	15	0	15	14
NJ	Kearny Generating Station	2404	16001	5	22	2	24	23	23	0	23	22
NJ	Kearny Generating Station	2404	17001	6	33	1	34	34	34	0	34	33
NJ	Lakewood Cogeneration	54640	001001	20	20	23	43	14	14	0	14	0
NJ	Lakewood Cogeneration	54640	002001	22	22	35	57	12	12	0	12	0
NJ	Linden Cogeneration Facility	50006	004001	10	10	0	10	10	10	0	10	10
NJ	Linden Cogeneration Facility	50006	005001	42	36	4	40	35	35	0	35	35
NJ	Linden Cogeneration Facility	50006	006001	42	28	7	35	27	27	0	27	27
NJ	Linden Cogeneration Facility	50006	007001	42	36	5	41	36	36	0	36	36
NJ	Linden Cogeneration Facility	50006	008001	43	36	8	44	39	39	0	39	36
NJ	Linden Cogeneration Facility	50006	009001	42	35	9	44	38	38	0	38	35
NJ	Linden Generating Station	2406	1101	12	12	16	28	12	12	0	12	12
NJ	Linden Generating Station	2406	1201	10	10	16	26	10	10	0	10	10
NJ	Linden Generating Station	2406	2101	10	10	15	25	10	10	0	10	10
NJ	Linden Generating Station	2406	2201	15	15	13	28	15	15	0	15	15
NJ	Linden Generating Station	2406	5	13	13	3	16	10	10	0	10	10
NJ	Linden Generating Station	2406	6	13	13	2	15	7	7	0	7	7
NJ	Linden Generating Station	2406	7	13	4	3	7	5	5	0	5	4
NJ	Linden Generating Station	2406	8	15	12	0	12	6	6	0	6	6
NJ	Logan Generating Plant	10043	1001	463	463	73	536	463	463	0	463	463
NJ	Mercer Generating Station	2408	1	441	441	23	464	375	375	0	375	375
NJ	Mercer Generating Station	2408	2	413	413	24	437	294	294	0	294	294
NJ	Mercer Generating Station	2408	7001	2	7	0	7	7	7	0	7	7
NJ	Mickleton	8008	001001	6	5	0	5	4	4	0	4	4
NJ	Middle Street	2382	003001	1	3	0	3	2	2	0	2	2
NJ	Middle Street	2382	004001	1	5	0	5	4	4	0	4	4
NJ	Middle Street	2382	005001	3	5	0	5	4	4	0	4	4
NJ	Missouri	2383	010001	1	3	0	3	2	2	0	2	2
NJ	Missouri	2383	011001	1	4	0	4	3	3	0	3	3
NJ	Missouri	2383	012001	1	4	0	4	3	3	0	3	3
NJ	National Park	2409	1001	0	0	1	1	1	1	0	1	0
NJ	Newark Bay Cogen	50385	1001	10	5	0	5	5	5	0	5	5
NJ	Newark Bay Cogen	50385	2001	10	2	0	2	2	2	0	2	2
NJ	Newark Bay Cogen	50385	3001	5	0	0	0	0	0	0	0	0
NJ	North Jersey Energy Associates	10308	1001	171	105	7	112	90	90	0	90	90
NJ	North Jersey Energy Associates	10308	1002	168	112	7	119	100	100	0	100	100
NJ	Ocean Peaking Power, LP	55938	OPP3	9	9	0	9	9	9	0	9	9

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NJ	Ocean Peaking Power, LP	55938	OPP4	9	9	0	9	9	9	0	9	9
NJ	Pedricktown Cogeneration Plant	10099	001001	23	14	5	19	14	14	0	14	14
NJ	RPL Holdings, Inc. - Elmwood Park Plant	50852	002001	98	5	4	9	3	3	0	3	3
NJ	Salem	2410	2001	2	2	1	3	3	3	0	3	2
NJ	Sayreville	2390	012001	3	6	0	6	4	4	0	4	4
NJ	Sayreville	2390	014001	4	9	0	9	7	7	0	7	7
NJ	Sayreville	2390	015001	4	9	0	9	7	7	0	7	7
NJ	Sayreville	2390	016001	4	8	0	8	6	6	0	6	6
NJ	Sewaren Generating Station	2411	1	52	8	0	8	8	8	0	8	8
NJ	Sewaren Generating Station	2411	12001	1	2	1	3	3	3	0	3	2
NJ	Sewaren Generating Station	2411	2	51	12	0	12	11	11	0	11	11
NJ	Sewaren Generating Station	2411	3	41	22	0	22	22	22	0	22	22
NJ	Sewaren Generating Station	2411	4	85	35	0	35	32	32	0	32	32
NJ	Sherman Avenue	7288	1	18	13	0	13	12	12	0	12	12
NJ	Sunoco Power Generation, LLC	50561	0001	130	79	0	79	11	11	0	11	11
NJ	Sunoco Power Generation, LLC	50561	0002	124	74	0	74	16	16	0	16	16
NJ	Sunoco, Inc. (R&S) Eagle Point Facility	55113	034101	0	0	0	0	0	0	0	0	0
NJ	Sunoco, Inc. (R&S) Eagle Point Facility	55113	034201	0	0	0	0	0	0	0	0	0
NJ	Sunoco, Inc. (R&S) Eagle Point Facility	55113	034301	0	0	0	0	0	0	0	0	0
NJ	Sunoco, Inc. (R&S) Eagle Point Facility	55113	034401	0	0	0	0	0	0	0	0	0
NJ	Sunoco, Inc. (R&S) Eagle Point Facility	55113	088001	38	38	0	38	28	28	0	28	28
NJ	Valero Paulsboro Refinery	50628	748001	46	69	28	97	39	39	0	39	39
NJ	Valero Paulsboro Refinery	50628	749001	200	167	26	193	71	71	0	71	71
NJ	Valero Paulsboro Refinery	50628	751001	53	49	26	75	19	19	0	19	19
NJ	Valero Paulsboro Refinery	50628	752001	44	38	26	64	17	17	0	17	17
NJ	Valero Paulsboro Refinery	50628	780001	13	33	25	58	12	12	0	12	12
NJ	Werner	2385	009001	1	8	0	8	6	6	0	6	6
NJ	Werner	2385	010001	2	7	0	7	5	5	0	5	5
NJ	Werner	2385	011001	2	9	0	9	7	7	0	7	7
NJ	Werner	2385	012001	2	4	0	4	2	2	0	2	2
NJ	West Station	6776	002001	4	0	120	120	11	11	0	11	0
NY	23rd and 3rd	7910	2301	6	6	0	6	3	3	0	3	3
NY	23rd and 3rd	7910	2302	6	6	0	6	3	3	0	3	3
NY	23rd and 3rd	7910	OVERDF	0	0	0	0					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	59th Street	2503	CS0001 (BLR114, BLR115, BLR116, BLR117, BLR118)				185					
NY	59th Street	2503	BLR114	27	27	33		37	0	37		27
NY	59th Street	2503	BLR115	49	49	20		37	0	37		37
NY	59th Street	2503	BLR116	15	15	0		37	0	37		15
NY	59th Street	2503	BLR117	16	16	0		37	0	37		16
NY	59th Street	2503	BLR118	16	16	0		37	0	37		16
NY	59th Street	2503	CT0001	6	6	0	4	4	0	4		4
NY	59th Street	2503	OVERDF	0	255	462	717					64
NY	74th Street	2504	CS0002 (120, 121, 122)				94					
NY	74th Street	2504	120	53	53	126	179	31	0	31		31
NY	74th Street	2504	121	63	63	138	201	31	0	31		31
NY	74th Street	2504	122	57	57	1	58	32	0	32		32
NY	74th Street	2504	CT0001	3	3	0	3	1	0	1		1
NY	74th Street	2504	CT0002	1	1	0	1	1	0	1		1
NY	74th Street	2504	OVERDF	0	195	762	957					0
NY	AES Cayuga, LLC	2535	XS12 (1, 2)					1,034				
NY	AES Cayuga, LLC	2535	1	359	195	10	205	195	0	195		195
NY	AES Cayuga, LLC	2535	2	360	839	10	849	839	0	839		839
NY	AES Cayuga, LLC	2535	OVERDF	0	53	0	53					0
NY	AES Greenidge	2527	CSG003 (4, 5)					77				
NY	AES Greenidge	2527	4	61	0	1	1	38	0	38		0
NY	AES Greenidge	2527	5	58	58	2	60	39	0	39		39
NY	AES Greenidge	2527	6	244	244	6	250	245	0	245		244
NY	AES Greenidge	2527	OVERDF	0	104	8	112					37
NY	AES Somerset (Kintigh )	6082	1	1,478	2,012	193	2,205	2,046	2,046	0	2,046	2,012
NY	AES Westover (Goudey)	2526	CSW003 (11, 12, 13)					343				
NY	AES Westover (Goudey)	2526	11	55	0	2	2	0	0	0		0
NY	AES Westover (Goudey)	2526	12	53	0	2	2	0	0	0		0
NY	AES Westover (Goudey)	2526	13	184	281	5	286	343	0	343		281
NY	AES Westover (Goudey)	2526	OVERDF	0	122	0	122					59
NY	AG - Energy	10803	1	32	0	0	0	0	0	0		0
NY	AG - Energy	10803	2	17	0	1	1	0	0	0		0

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	AG - Energy	10803	OVERDF	0	0	0	0					0
NY	Allegany Station No. 133	10619	00001	32	4	0	4	4	4	0	4	4
NY	American Ref-Fuel Niagara	50472	R1B01	4	4	19	23	0	0	0	0	0
NY	Arthur Kill	2490	CS0002 (20, 30)					496				
NY	Arthur Kill	2490	20	514	0	14	14		248	0	248	0
NY	Arthur Kill	2490	30	481	0	13	13		248	0	248	0
NY	Arthur Kill	2490	CT0001	4	0	0	0	1	1	0	1	0
NY	Arthur Kill	2490	OVERDF	0	506	0	506					480
NY	Astoria Energy	55375	CT1	37	37	2	39	13	13	0	13	13
NY	Astoria Energy	55375	CT2	37	37	0	37	20	20	0	20	20
NY	Astoria Energy	55375	OVERDF	0	0	0	0					0
NY	Astoria Gas Turbine Power	55243	CT0005	15	0	0	0	0	0	0	0	0
NY	Astoria Gas Turbine Power	55243	CT0007	14	0	1	1	0	0	0	0	0
NY	Astoria Gas Turbine Power	55243	CT0008	14	0	0	0	0	0	0	0	0
NY	Astoria Gas Turbine Power	55243	CT0009	0	0	0	0	0	0	0	0	0
NY	Astoria Gas Turbine Power	55243	CT0010	19	0	1	1	1	1	0	1	0
NY	Astoria Gas Turbine Power	55243	CT0011	12	0	0	0	1	1	0	1	0
NY	Astoria Gas Turbine Power	55243	CT0012	20	0	0	0	1	1	0	1	0
NY	Astoria Gas Turbine Power	55243	CT0013	17	0	1	1	1	1	0	1	0
NY	Astoria Gas Turbine Power	55243	CT2-1A	18	0	0	0	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT2-1B	18	0	0	0	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT2-2A	22	0	1	1	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT2-2B	22	0	1	1	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT2-3A	15	0	0	0	3	3	0	3	0
NY	Astoria Gas Turbine Power	55243	CT2-3B	15	0	0	0	3	3	0	3	0
NY	Astoria Gas Turbine Power	55243	CT2-4A	15	0	1	1	4	4	0	4	0
NY	Astoria Gas Turbine Power	55243	CT2-4B	15	0	1	1	4	4	0	4	0
NY	Astoria Gas Turbine Power	55243	CT3-1A	16	0	1	1	3	3	0	3	0
NY	Astoria Gas Turbine Power	55243	CT3-1B	16	0	1	1	3	3	0	3	0
NY	Astoria Gas Turbine Power	55243	CT3-2A	14	0	0	0	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT3-2B	14	0	0	0	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT3-3A	15	0	1	1	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT3-3B	15	0	1	1	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT3-4A	13	0	1	1	6	6	0	6	0
NY	Astoria Gas Turbine Power	55243	CT3-4B	13	0	1	1	5	5	0	5	0
NY	Astoria Gas Turbine Power	55243	CT4-1A	17	0	0	0	9	9	0	9	0
NY	Astoria Gas Turbine Power	55243	CT4-1B	17	0	0	0	9	9	0	9	0

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Astoria Gas Turbine Power	55243	CT4-2A	13	0	0	0	9	9	0	9	0
NY	Astoria Gas Turbine Power	55243	CT4-2B	13	0	0	0	8	8	0	8	0
NY	Astoria Gas Turbine Power	55243	CT4-3A	19	0	0	0	6	6	0	6	0
NY	Astoria Gas Turbine Power	55243	CT4-3B	19	0	0	0	6	6	0	6	0
NY	Astoria Gas Turbine Power	55243	CT4-4A	23	0	1	1	2	2	0	2	0
NY	Astoria Gas Turbine Power	55243	CT4-4B	23	0	1	1	2	2	0	2	0
NY	Astoria Gas Turbine Power	55243	OVERDF	0	132	0	132					112
NY	Astoria Generating Station	8906	20	54	9	1	10	9	9	0	9	9
NY	Astoria Generating Station	8906	30	530	257	15	272	257	257	0	257	257
NY	Astoria Generating Station	8906	CPG45 (40, 50)					466				
NY	Astoria Generating Station	8906	40	574	187	16	203		187	0	187	187
NY	Astoria Generating Station	8906	50	574	279	16	295		279	0	279	279
NY	Astoria Generating Station	8906	CT0001	3	2	0	2	2	2	0	2	2
NY	Astoria Generating Station	8906	OVERDF	0	52	0	52					0
NY	Athens Generating Company	55405	1	30	25	2	27	20	20	0	20	20
NY	Athens Generating Company	55405	2	67	27	2	29	22	22	0	22	22
NY	Athens Generating Company	55405	3	56	26	1	27	19	19	0	19	19
NY	Athens Generating Company	55405	OVERDF	0	0	0	0					0
NY	Batavia Energy	54593	1	31	6	6	12	7	7	0	7	4
NY	Bayswater Peaking Facility	55699	1	9	9	12	21	2	2	0	2	2
NY	Bayswater Peaking Facility	55699	2	9	9	26	35	2	2	0	2	2
NY	Bayswater Peaking Facility	55699	OVERDF	0	0	0	0					0
NY	Bethlehem Energy Center (Albany)	2539	10001	62	62	54	116	7	7	0	7	7
NY	Bethlehem Energy Center (Albany)	2539	10002	62	62	55	117	8	8	0	8	8
NY	Bethlehem Energy Center (Albany)	2539	10003	62	62	56	118	7	7	0	7	7
NY	Bethlehem Energy Center (Albany)	2539	OVERDF	0	29	0	29					0
NY	Bethpage Energy Center	50292	GT1	54	20	7	27	17	17	0	17	13
NY	Bethpage Energy Center	50292	GT2	54	13	11	24	10	10	0	10	4
NY	Bethpage Energy Center	50292	GT3	7	7	9	16	3	3	0	3	0
NY	Bethpage Energy Center	50292	GT4	11	1	26	27	5	5	0	5	0
NY	Bethpage Energy Center	50292	OVERDF	0	0	0	0					0
NY	Binghamton Cogen Plant	55600	1	17	17	1	18	0	0	0	0	0
NY	Black River Generation, LLC	10464	CS-1 (E0001, E0002, E0003)					171				
NY	Black River Generation, LLC	10464	E0001	59	59	2	61		57	0	57	57
NY	Black River Generation, LLC	10464	E0002	60	60	1	61		57	0	57	57
NY	Black River Generation, LLC	10464	E0003	54	54	2	56		57	0	57	54
NY	Black River Generation, LLC	10464	OVERDF	0	0	44	44					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Bowline Generating Station	2625	1	442	0	12	12	216	216	0	216	0
NY	Bowline Generating Station	2625	2	286	0	7	7	64	64	0	64	0
NY	Bowline Generating Station	2625	OVERDF	0	388	0	388					267
NY	Brentwood	7912	BW01	9	9	0	9	2	2	0	2	2
NY	Brooklyn Navy Yard Cogeneration	54914	1	30	30	28	58	14	14	0	14	0
NY	Brooklyn Navy Yard Cogeneration	54914	2	30	30	21	51	14	14	0	14	1
NY	Brooklyn Navy Yard Cogeneration	54914	OVERDF	0	0	0	0					0
NY	Carr Street Generating Station	50978	A	16	2	2	4	2	2	0	2	2
NY	Carr Street Generating Station	50978	B	16	2	1	3	2	2	0	2	2
NY	Carr Street Generating Station	50978	OVERDF	0	0	4	4					0
NY	Carthage Energy	10620	1	32	29	15	44	7	7	0	7	7
<b>NY</b>	<b>Charles Poletti<sup>5</sup></b>	<b>2491</b>	<b>001</b>	<b>871</b>	<b>721</b>	<b>83</b>	<b>804</b>	<b>774</b>	<b>774</b>	<b>0</b>	<b>774</b>	<b>721</b>
NY	Dunkirk	2554	1	226	0	6	6	211	211	0	211	0
NY	Dunkirk	2554	2	207	0	6	6	221	221	0	221	0
NY	Dunkirk	2554	CS0003 (3, 4)					769				
NY	Dunkirk	2554	3	307	0	8	8		384	0	384	0
NY	Dunkirk	2554	4	318	0	9	9		385	0	385	0
NY	Dunkirk	2554	OVERDF	0	1,260	22	1,282					1,182
NY	Dynergy Danskammer	2480	1	14	7	1	8	7	7	0	7	7
NY	Dynergy Danskammer	2480	2	18	13	1	14	13	13	0	13	13
NY	Dynergy Danskammer	2480	3	254	254	7	261	545	545	0	545	254
NY	Dynergy Danskammer	2480	4	496	496	14	510	1,147	1,147	0	1,147	496
NY	Dynergy Danskammer	2480	OVERDF	0	375	1,192	1,567					375
NY	Dynergy Roseton	8006	1	588	73	14	87	73	73	0	73	73
NY	Dynergy Roseton	8006	2	606	138	16	154	138	138	0	138	138
NY	Dynergy Roseton	8006	OVERDF	0	0	265	265					0
NY	E F Barrett	2511	10	350	267	73	340	256	256	0	256	256
NY	E F Barrett	2511	20	346	147	170	317	136	136	0	136	136
NY	E F Barrett	2511	U00004	7	2	0	2	2	2	0	2	2
NY	E F Barrett	2511	U00005	6	2	0	2	2	2	0	2	2
NY	E F Barrett	2511	U00006	8	1	0	1	1	1	0	1	1
NY	E F Barrett	2511	U00007	6	3	0	3	3	3	0	3	3
NY	E F Barrett	2511	U00008	6	2	0	2	2	2	0	2	2
NY	E F Barrett	2511	U00009	5	3	0	3	3	3	0	3	3
NY	E F Barrett	2511	U00010	6	4	0	4	4	4	0	4	4
NY	E F Barrett	2511	U00011	7	4	0	4	3	3	0	3	3
NY	E F Barrett	2511	U00012	20	7	0	7	7	7	0	7	7
NY	E F Barrett	2511	U00013	20	7	0	7	7	7	0	7	7

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	E F Barrett	2511	U00014	23	4	1	5	4	4	0	4	4
NY	E F Barrett	2511	U00015	23	4	1	5	4	4	0	4	4
NY	E F Barrett	2511	U00016	18	8	0	8	8	8	0	8	8
NY	E F Barrett	2511	U00017	18	8	0	8	8	8	0	8	8
NY	E F Barrett	2511	U00018	22	7	1	8	7	7	0	7	7
NY	E F Barrett	2511	U00019	22	7	1	8	7	7	0	7	7
NY	E F Barrett	2511	OVERDF	0	0	142	142					0
NY	East Hampton Facility	2512	UGT001	34	74	13	87	73	73	0	73	73
NY	East River	2493	1	62	62	87	149	15	15	0	15	15
NY	East River	2493	2	62	62	87	149	15	15	0	15	15
NY	East River	2493	60	250	250	73	323	196	196	0	196	196
NY	East River	2493	70	262	262	115	377	173	173	0	173	173
NY	East River	2493	OVERDF	0	0	542	542					0
NY	Eastman Kodak - Kodak Park	10025	1E	148	0	5	5	0	0	0	0	0
NY	Eastman Kodak - Kodak Park	10025	1F	148	0	5	5	0	0	0	0	0
NY	Eastman Kodak - Kodak Park	10025	2C	362	0	11	11	0	0	0	0	0
NY	Eastman Kodak - Kodak Park	10025	2D	43	0	1	1	0	0	0	0	0
NY	Eastman Kodak - Kodak Park	10025	3A	317	143	10	153	83	83	0	83	83
NY	Eastman Kodak - Kodak Park	10025	3B	317	487	10	497	458	458	0	458	458
NY	Eastman Kodak - Kodak Park	10025	4A	404	606	12	618	578	578	0	578	578
NY	Eastman Kodak - Kodak Park	10025	4B	297	300	9	309	273	273	0	273	273
NY	Eastman Kodak - Kodak Park	10025	OVERDF	0	0	0	0					0
NY	EPCOR Power (Castleton) LLC	10190	1	105	105	156	261	18	18	0	18	0
NY	Equus Freeport Power Generating Station	56032	0001	10	4	0	4	4	4	0	4	4
NY	Far Rockaway	2513	40	145	88	149	237	82	82	0	82	82
NY	Fortistar North Tonawanda Inc	54131	NTCT1	80	6	2	8	3	3	0	3	3
NY	Freeport Power Plant No. 2	2679	5	10	10	16	26	3	3	0	3	3
NY	Fulton Cogeneration Associates	54138	01GTDB	64	3	8	11	0	0	0	0	0
NY	General Electric - Waterford	880024	U28006	63	30	30	60	19	19	0	19	19
NY	Glenwood	2514	40	174	42	28	70	36	36	0	36	36
NY	Glenwood	2514	50	174	36	25	61	31	31	0	31	31
NY	Glenwood	2514	U00020	11	4	0	4	4	4	0	4	4
NY	Glenwood	2514	U00021	12	4	1	5	4	4	0	4	4
NY	Glenwood	2514	OVERDF	0	0	19	19					0
NY	Glenwood Landing Energy Center	7869	UGT011	4	4	3	7	0	0	0	0	0
NY	Glenwood Landing Energy Center	7869	UGT012	9	2	14	16	2	2	0	2	2
NY	Glenwood Landing Energy Center	7869	UGT013	9	2	14	16	2	2	0	2	2
NY	Glenwood Landing Energy Center	7869	OVERDF	0	0	2	2					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Gowanus	2494	CT01-1	14	4	0	4	4	4	0	4	4
NY	Gowanus	2494	CT01-2	15	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT01-3	15	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT01-4	16	3	0	3	3	3	0	3	3
NY	Gowanus	2494	CT01-5	16	3	0	3	3	3	0	3	3
NY	Gowanus	2494	CT01-6	17	3	0	3	3	3	0	3	3
NY	Gowanus	2494	CT01-7	15	3	0	3	3	3	0	3	3
NY	Gowanus	2494	CT01-8	17	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT02-1	18	5	0	5	5	5	0	5	5
NY	Gowanus	2494	CT02-2	20	7	0	7	7	7	0	7	7
NY	Gowanus	2494	CT02-3	22	7	1	8	7	7	0	7	7
NY	Gowanus	2494	CT02-4	22	10	1	11	10	10	0	10	10
NY	Gowanus	2494	CT02-5	24	6	1	7	6	6	0	6	6
NY	Gowanus	2494	CT02-6	23	9	1	10	9	9	0	9	9
NY	Gowanus	2494	CT02-7	23	8	1	9	8	8	0	8	8
NY	Gowanus	2494	CT02-8	24	8	0	8	8	8	0	8	8
NY	Gowanus	2494	CT03-1	23	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT03-2	19	2	0	2	2	2	0	2	2
NY	Gowanus	2494	CT03-3	18	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT03-4	19	2	1	3	2	2	0	2	2
NY	Gowanus	2494	CT03-5	22	2	1	3	2	2	0	2	2
NY	Gowanus	2494	CT03-6	25	2	1	3	2	2	0	2	2
NY	Gowanus	2494	CT03-7	23	2	0	2	2	2	0	2	2
NY	Gowanus	2494	CT03-8	23	2	1	3	2	2	0	2	2
NY	Gowanus	2494	CT04-1	13	4	0	4	3	3	0	3	3
NY	Gowanus	2494	CT04-2	12	4	0	4	4	4	0	4	4
NY	Gowanus	2494	CT04-3	11	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT04-4	10	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT04-5	13	4	0	4	4	4	0	4	4
NY	Gowanus	2494	CT04-6	13	2	1	3	2	2	0	2	2
NY	Gowanus	2494	CT04-7	13	3	1	4	3	3	0	3	3
NY	Gowanus	2494	CT04-8	11	3	0	3	3	3	0	3	3
NY	Gowanus	2494	OVERDF	0	34	0	34					0
NY	Harlem River Yard	7914	HR01	6	6	3	9	2	2	0	2	2
NY	Harlem River Yard	7914	HR02	6	6	1	7	2	2	0	2	2
NY	Harlem River Yard	7914	OVERDF	0	0	0	0					0
NY	Hawkeye Energy Greenport, LLC	55969	U-01	22	22	34	56	9	9	0	9	9
NY	Hell Gate	7913	HG01	6	6	0	6	2	2	0	2	2



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Hell Gate	7913	HG02	6	6	0	6	2	2	0	2	2
NY	Hell Gate	7913	OVERDF	0	0	0	0					0
NY	Hillburn	2628	001	2	2	1	3	1	1	0	1	1
NY	Holcim US Inc	880043	1	1,856	1,000	203	1,203	914	914	0	914	914
NY	Holtsville Facility	8007	U00001	22	10	4	14	10	10	0	10	10
NY	Holtsville Facility	8007	U00002	22	10	4	14	10	10	0	10	10
NY	Holtsville Facility	8007	U00003	20	9	6	15	9	9	0	9	9
NY	Holtsville Facility	8007	U00004	20	9	6	15	9	9	0	9	9
NY	Holtsville Facility	8007	U00005	26	5	1	6	5	5	0	5	5
NY	Holtsville Facility	8007	U00006	26	5	1	6	5	5	0	5	5
NY	Holtsville Facility	8007	U00007	18	16	12	28	16	16	0	16	16
NY	Holtsville Facility	8007	U00008	18	16	12	28	16	16	0	16	16
NY	Holtsville Facility	8007	U00009	29	13	12	25	13	13	0	13	13
NY	Holtsville Facility	8007	U00010	29	13	12	25	13	13	0	13	13
NY	Holtsville Facility	8007	U00011	21	19	1	20	19	19	0	19	19
NY	Holtsville Facility	8007	U00012	21	19	1	20	19	19	0	19	19
NY	Holtsville Facility	8007	U00013	20	21	1	22	21	21	0	21	21
NY	Holtsville Facility	8007	U00014	20	21	1	22	21	21	0	21	21
NY	Holtsville Facility	8007	U00015	27	12	14	26	12	12	0	12	12
NY	Holtsville Facility	8007	U00016	27	12	14	26	12	12	0	12	12
NY	Holtsville Facility	8007	U00017	22	33	1	34	33	33	0	33	33
NY	Holtsville Facility	8007	U00018	22	33	1	34	33	33	0	33	33
NY	Holtsville Facility	8007	U00019	21	17	5	22	17	17	0	17	17
NY	Holtsville Facility	8007	U00020	21	17	5	22	17	17	0	17	17
NY	Holtsville Facility	8007	OVERDF	0	0	79	79					0
NY	Hudson Avenue	2496	CS0004 (BLR071, BLR072, BLR081, BLR082)					111				
NY	Hudson Avenue	2496	BLR071	45	45	26	71		28	0	28	28
NY	Hudson Avenue	2496	BLR072	45	45	26	71		28	0	28	28
NY	Hudson Avenue	2496	BLR081	45	45	26	71		28	0	28	28
NY	Hudson Avenue	2496	BLR082	45	45	26	71		27	0	27	27
NY	Hudson Avenue	2496	CT0003	7	7	11	18	3	3	0	3	3
NY	Hudson Avenue	2496	CT0004	5	5	2	7	2	2	0	2	2
NY	Hudson Avenue	2496	CT0005	6	6	5	11	2	2	0	2	2
NY	Hudson Avenue	2496	OVERDF	0	184	393	577					0

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					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Huntley Power	2549	CS0002 (63, 64, 65, 66)					57				
NY	Huntley Power	2549	63	95	0	2	2		14	0	14	0
NY	Huntley Power	2549	64	98	0	4	4		14	0	14	0
NY	Huntley Power	2549	65	139	0	4	4		14	0	14	0
NY	Huntley Power	2549	66	157	0	4	4		15	0	15	0
NY	Huntley Power	2549	CS0001 (67, 68)					727				
NY	Huntley Power	2549	67	379	0	10	10		364	0	364	0
NY	Huntley Power	2549	68	402	0	11	11		363	0	363	0
NY	Huntley Power	2549	OVERDF	0	889	0	889					761
NY	Indeck-Corinth Energy Center	50458	1	82	28	0	28	28	28	0	28	28
NY	Indeck-Olean Energy Center	54076	1	53	14	0	14	14	14	0	14	14
NY	Indeck-Oswego Energy Center	50450	1	42	7	1	8	4	4	0	4	4
NY	Indeck-Silver Springs Energy Center	50449	1	112	13	3	16	4	4	0	4	4
NY	Indeck-Yerkes Energy Center	50451	1	38	10	1	11	8	8	0	8	8
NY	Independence	54547	1	62	0	0	0	16	16	0	16	0
NY	Independence	54547	2	62	0	0	0	15	15	0	15	0
NY	Independence	54547	3	62	0	0	0	18	18	0	18	0
NY	Independence	54547	4	62	0	0	0	14	14	0	14	0
NY	Independence	54547	OVERDF	0	68	6	74					63
NY	KIAC Cogeneration	54114	GT1	42	18	8	26	16	16	0	16	11
NY	KIAC Cogeneration	54114	GT2	42	7	16	23	14	14	0	14	4
NY	KIAC Cogeneration	54114	OVERDF	0	0	0	0					0
NY	Lafarge Building Materials, Inc.	880044	41000	5,373	3,297	1,714	5,011	2,438	2,438	0	2,438	2,438
NY	Lehigh Northeast Cement Company	880052	01070	614	614	125	739	391	391	0	391	391
NY	Lockport	54041	011854	119	55	3	58	53	53	0	53	53
NY	Lockport	54041	011855	109	49	3	52	47	47	0	47	47
NY	Lockport	54041	011856	118	53	3	56	50	50	0	50	50
NY	Lockport	54041	OVERDF	0	0	0	0					0
NY	Lovett Generating Station	2629	3	105	0	2	2	0	0	0	0	0
NY	Lovett Generating Station	2629	4	331	0	10	10	20	20	0	20	0
NY	Lovett Generating Station	2629	5	309	0	10	10	1,082	1,082	0	1,082	0
NY	Lovett Generating Station	2629	OVERDF	0	1,174	0	1,174					1,090
NY	Massena Energy Facility	54592	001	24	0	4	4	1	1	0	1	0
NY	Narrows	2499	CT01-1	53	17	0	17	17	17	0	17	17
NY	Narrows	2499	CT01-2	67	15	0	15	15	15	0	15	15
NY	Narrows	2499	CT01-3	61	16	0	16	16	16	0	16	16
NY	Narrows	2499	CT01-4	60	15	0	15	15	15	0	15	15

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STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Narrows	2499	CT01-5	72	13	0	13	13	13	0	13	13
NY	Narrows	2499	CT01-6	73	15	0	15	15	15	0	15	15
NY	Narrows	2499	CT01-7	69	12	0	12	12	12	0	12	12
NY	Narrows	2499	CT01-8	53	12	0	12	12	12	0	12	12
NY	Narrows	2499	CT02-1	50	15	1	16	15	15	0	15	15
NY	Narrows	2499	CT02-2	40	14	1	15	14	14	0	14	14
NY	Narrows	2499	CT02-3	58	6	0	6	6	6	0	6	6
NY	Narrows	2499	CT02-4	42	10	1	11	10	10	0	10	10
NY	Narrows	2499	CT02-5	43	13	2	15	13	13	0	13	13
NY	Narrows	2499	CT02-6	52	12	1	13	12	12	0	12	12
NY	Narrows	2499	CT02-7	42	12	1	13	12	12	0	12	12
NY	Narrows	2499	CT02-8	53	8	0	8	8	8	0	8	8
NY	Narrows	2499	OVERDF	0	16	0	16					0
NY	Nassau Energy Corporation	52056	00004	124	124	7	131	118	118	0	118	116
NY	Niagara Generation, LLC	50202	1	140	4	100	104	56	56	0	56	4
NY	Nissequogue Cogen	54149	1	109	45	20	65	47	47	0	47	36
NY	North 1st	7915	NO1	9	9	0	9	3	3	0	3	3
NY	Northport	2516	1	607	468	17	485	452	452	0	452	452
NY	Northport	2516	2	705	427	19	446	407	407	0	407	407
NY	Northport	2516	3	566	409	66	475	390	390	0	390	390
NY	Northport	2516	4	723	491	90	581	469	469	0	469	469
NY	Northport	2516	UGT001	4	0	1	1	1	1	0	1	0
NY	Northport	2516	OVERDF	0	1	421	422					0
NY	Onondaga Cogeneration	50855	1	38	6	9	15	0	0	0	0	0
NY	Onondaga Cogeneration	50855	2	24	4	6	10	0	0	0	0	0
NY	Onondaga Cogeneration	50855	OVERDF	0	0	0	0					0
NY	Oswego Harbor Power	2594	3	0	0	0	0	0	0	0	0	0
NY	Oswego Harbor Power	2594	5	202	0	6	6	23	23	0	23	0
NY	Oswego Harbor Power	2594	6	143	0	4	4	18	18	0	18	0
NY	Oswego Harbor Power	2594	OVERDF	0	43	0	43					34
NY	Pinelawn Power	56188	00001	9	4	0	4	4	4	0	4	4
NY	Poletti 500 MW CC	56196	CTG7A	38	38	0	38	17	17	0	17	17
NY	Poletti 500 MW CC	56196	CTG7B	38	38	0	38	18	18	0	18	18
NY	Poletti 500 MW CC	56196	OVERDF	0	0	0	0					0
NY	Port Jefferson Energy Center	2517	3	347	130	46	176	118	118	0	118	118
NY	Port Jefferson Energy Center	2517	4	331	157	43	200	146	146	0	146	146
NY	Port Jefferson Energy Center	2517	UGT001	4	0	2	2	0	0	0	0	0
NY	Port Jefferson Energy Center	2517	UGT002	9	2	7	9	2	2	0	2	2

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Port Jefferson Energy Center	2517	UGT003	9	3	7	10	3	3	0	3	3
NY	Port Jefferson Energy Center	2517	OVERDF	0	0	62	62					0
NY	Pouch Terminal	8053	PT01	18	18	0	18	4	4	0	4	4
NY	PPL Edgewood Energy	55786	CT01	6	3	0	3	2	2	0	2	2
NY	PPL Edgewood Energy	55786	CT02	6	3	0	3	2	2	0	2	2
NY	PPL Edgewood Energy	55786	OVERDF	0	1	0	1					0
NY	PPL Shoreham Energy	55787	CT01	6	3	0	3	2	2	0	2	2
NY	PPL Shoreham Energy	55787	CT02	6	3	0	3	2	2	0	2	2
NY	PPL Shoreham Energy	55787	OVERDF	0	1	0	1					0
NY	Project Orange Facility	54425	001	24	24	21	45	18	18	0	18	18
NY	Project Orange Facility	54425	002	29	29	21	50	17	17	0	17	17
NY	Project Orange Facility	54425	OVERDF	0	0	0	0					0
NY	Ravenswood Generating Station	2500	10	502	199	51	250	188	188	0	188	188
NY	Ravenswood Generating Station	2500	20	595	158	63	221	145	145	0	145	145
NY	Ravenswood Generating Station	2500	30	1,210	541	33	574	489	489	0	489	489
NY	Ravenswood Generating Station	2500	CS0001 (BL001, BLR003)					14				
NY	Ravenswood Generating Station	2500	BLR001	20	3	1	4		7	0	7	3
NY	Ravenswood Generating Station	2500	CS0002 (BLR002, BLR004)					29				
NY	Ravenswood Generating Station	2500	BLR002	20	3	1	4		14	0	14	3
NY	Ravenswood Generating Station	2500	BLR003	20	3	1	4		7	0	7	3
NY	Ravenswood Generating Station	2500	BLR004	20	3	1	4		15	0	15	3
NY	Ravenswood Generating Station	2500	CT0001	2	0	1	1	0	0	0	0	0
NY	Ravenswood Generating Station	2500	CT0004	5	1	1	2	1	1	0	1	1
NY	Ravenswood Generating Station	2500	CT0005	5	1	0	1	1	1	0	1	1
NY	Ravenswood Generating Station	2500	CT0006	7	1	0	1	1	1	0	1	1
NY	Ravenswood Generating Station	2500	CT0007	7	1	0	1	1	1	0	1	1
NY	Ravenswood Generating Station	2500	CT0008	11	0	0	0	0	0	0	0	0
NY	Ravenswood Generating Station	2500	CT0009	12	7	0	7	7	7	0	7	7
NY	Ravenswood Generating Station	2500	CT0010	12	6	0	6	6	6	0	6	6
NY	Ravenswood Generating Station	2500	CT0011	12	6	0	6	6	6	0	6	6
NY	Ravenswood Generating Station	2500	CT02-1	6	9	0	9	9	9	0	9	9
NY	Ravenswood Generating Station	2500	CT02-2	7	11	0	11	11	11	0	11	11
NY	Ravenswood Generating Station	2500	CT02-3	7	5	1	6	5	5	0	5	5
NY	Ravenswood Generating Station	2500	CT02-4	7	7	0	7	7	7	0	7	7
NY	Ravenswood Generating Station	2500	CT03-1	6	13	1	14	13	13	0	13	13

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

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					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Ravenswood Generating Station	2500	CT03-2	6	11	1	12	11	11	0	11	11
NY	Ravenswood Generating Station	2500	CT03-3	6	7	0	7	7	7	0	7	7
NY	Ravenswood Generating Station	2500	CT03-4	5	7	1	8	7	7	0	7	7
NY	Ravenswood Generating Station	2500	UCC001	58	18	0	18	18	18	0	18	18
NY	Ravenswood Generating Station	2500	OVERDF	0	149	290	439					27
NY	Rensselaer Cogen	54034	1GTDBS	72	27	49	76	1	1	0	1	0
NY	Richard M Flynn (Holtsville)	7314	001	138	88	0	88	42	42	0	42	42
NY	Rochester 7 - Russell Station	2642	CS1 (1, 2)					527				
NY	Rochester 7 - Russell Station	2642	1	93	3	66	69		264	0	264	3
NY	Rochester 7 - Russell Station	2642	2	127	4	3	7		263	0	263	4
NY	Rochester 7 - Russell Station	2642	CS2 (3, 4)					438				
NY	Rochester 7 - Russell Station	2642	3	124	4	4	8		219	0	219	4
NY	Rochester 7 - Russell Station	2642	4	171	33	5	38		219	0	219	33
NY	Rochester 7 - Russell Station	2642	OVERDF	0	1,049	0	1,049					872
NY	S A Carlson	2682	CS0002 (10, 11)					8				
NY	S A Carlson	2682	10	9	9	0	9		4	0	4	4
NY	S A Carlson	2682	11	0	0	0	0		4	0	4	0
NY	S A Carlson	2682	CS0001 (9, 12)					200				
NY	S A Carlson	2682	12	191	116	15	131		115	0	115	115
NY	S A Carlson	2682	20	17	17	1	18	8	8	0	8	8
NY	S A Carlson	2682	9	9	84	2	86		85	0	85	84
NY	S A Carlson	2682	OVERDF	0	0	113	113					0
NY	Saranac Power Partners, LP	54574	00001	81	47	0	47	47	47	0	47	47
NY	Saranac Power Partners, LP	54574	00002	81	44	0	44	44	44	0	44	44
NY	Saranac Power Partners, LP	54574	OVERDF	0	0	0	0					0
NY	Selkirk Cogen Partners	10725	CTG101	205	6	6	12	83	83	0	83	6
NY	Selkirk Cogen Partners	10725	CTG201	85	0	0	0	33	33	0	33	0
NY	Selkirk Cogen Partners	10725	CTG301	85	0	0	0	31	31	0	31	0
NY	Selkirk Cogen Partners	10725	OVERDF	0	164	88	252					137
NY	Shoemaker	2632	1	17	4	2	6	4	4	0	4	3
NY	Sterling Power Plant	50744	00001	26	1	5	6	2	2	0	2	0
NY	Syracuse Energy Corporation	50651	CS0001 (BLR1, BLR2, BLR3, BLR4, BLR5)					480				
NY	Syracuse Energy Corporation	50651	BLR1	59	101	7	108		106	0	106	101
NY	Syracuse Energy Corporation	50651	BLR2	55	113	2	115		113	0	113	113
NY	Syracuse Energy Corporation	50651	BLR3	53	111	2	113		111	0	111	111
NY	Syracuse Energy Corporation	50651	BLR4	39	70	1	71		70	0	70	70

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
NY	Syracuse Energy Corporation	50651	BLR5	60	80	2	82		80	0	80	80
NY	Syracuse Energy Corporation	50651	OVERDF	0	16	0	16					0
NY	Ticonderoga Mill	54099	000044	268	156	17	173	151	151	0	151	151
NY	Vernon Boulevard	7909	VB01	6	6	0	6	2	2	0	2	2
NY	Vernon Boulevard	7909	VB02	6	6	0	6	2	2	0	2	2
NY	Vernon Boulevard	7909	OVERDF	0	0	0	0					0
NY	Wading River Facility	7146	UGT007	71	37	4	41	36	36	0	36	36
NY	Wading River Facility	7146	UGT008	52	36	2	38	35	35	0	35	35
NY	Wading River Facility	7146	UGT009	61	40	3	43	39	39	0	39	39
NY	Wading River Facility	7146	UGT013	14	3	0	3	3	3	0	3	3
NY	Wading River Facility	7146	UGT014	6	0	1	1	0	0	0	0	0
NY	Wading River Facility	7146	OVERDF	0	0	21	21					0
NY	West Babylon Facility	2521	UGT001	15	4	14	18	4	4	0	4	4
NY	WPS Beaver Falls Generation, LLC	10617	1	52	52	54	106	6	6	0	6	6
NY	WPS Syracuse Generation, LLC	10621	1	56	56	51	107	4	4	0	4	4
OH	AK Steel Corporation - Middletown	880042	P009	66	63	6	69	62	62	0	62	62
OH	AK Steel Corporation - Middletown	880042	P010	66	32	7	39	31	31	0	31	31
OH	AK Steel Corporation - Middletown	880042	P011	66	50	9	59	50	50	0	50	50
OH	AK Steel Corporation - Middletown	880042	P012	66	44	9	53	44	44	0	44	44
OH	AK Steel Corporation - Middletown	880042	OVERDF	0	0	10	10					0
OH	AMP-Ohio Gas Turbines Bowling Green	55262	CT1	12	12	1	13	0	0	12	12	12
OH	AMP-Ohio Gas Turbines Galion	55263	CT1	12	12	1	13	0	0	12	12	12
OH	AMP-Ohio Gas Turbines Napoleon	55264	CT1	12	12	0	12	0	0	12	12	12
OH	Ashtabula	2835	7	326	814	22	836	814	814	0	814	814
OH	Ashtabula	2835	OVERDF	0	10	13	23					0
OH	Avon Lake Power Plant	2836	10	136	356	0	356	356	356	0	356	356
OH	Avon Lake Power Plant	2836	12	1,018	2,396	0	2,396	2,396	2,396	0	2,396	2,396
OH	Avon Lake Power Plant	2836	CT10	3	6	0	6	6	6	0	6	6
OH	Avon Lake Power Plant	2836	OVERDF	0	15	0	15					0
OH	Bay Shore	2878	1	204	365	14	379	365	365	0	365	365
OH	Bay Shore	2878	CS5 (2, 3, 4)					2,840				
OH	Bay Shore	2878	2	224	1,323	24	1,347		1,323	0	1,323	1,323
OH	Bay Shore	2878	3	209	593	14	607		593	0	593	593
OH	Bay Shore	2878	4	323	925	22	947		924	0	924	924
OH	Bay Shore	2878	OVERDF	0	40	40	80					0
OH	BP Products North America, Inc.	880030	B034	5	5	0	5	3	3	3	6	5
OH	BP Products North America, Inc.	880030	B035	5	5	0	5	8	8	0	8	5
OH	BP Products North America, Inc.	880030	OVERDF	0	140	0	140					4

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	Cardinal	2828	1	1,008	329	0	329	329	329	0	329	329
OH	Cardinal	2828	2	1,060	320	146	466	320	320	0	320	285
OH	Cardinal	2828	3	1,056	223	147	370	223	223	0	223	188
OH	Cardinal	2828	B008	0	1	0	1	1	1	0	1	1
OH	Cardinal	2828	B010	20	20	0	20	2	2	18	20	20
OH	Cardinal	2828	OVERDF	0	49	0	49					0
OH	Cargill Incorporated	880039	B004	131	328	0	328	347	347	0	347	328
OH	Cargill Incorporated	880039	B006	1	4	3	7	4	4	0	4	4
OH	Cargill Incorporated	880039	OVERDF	0	0	109	109					0
OH	Cognis Oleochemicals, LLC	880033	B027	206	246	14	260	241	241	0	241	241
OH	Conesville	2840	3	208	591	0	591	591	591	0	591	591
OH	Conesville	2840	4	1,095	2,307	1,197	3,504	2,594	2,594	0	2,594	2,307
OH	Conesville	2840	CS056 (5, 6)					3,566				
OH	Conesville	2840	5	716	1,870	0	1,870		1,870	0	1,870	1,870
OH	Conesville	2840	6	721	1,696	0	1,696		1,696	0	1,696	1,696
OH	Conesville	2840	OVERDF	0	97	0	97					0
OH	Darby Electric Generating Station	55247	CT1	19	0	0	0	3	3	14	17	0
OH	Darby Electric Generating Station	55247	CT2	19	0	0	0	2	2	14	16	0
OH	Darby Electric Generating Station	55247	CT3	19	0	0	0	2	2	13	15	0
OH	Darby Electric Generating Station	55247	CT4	19	0	0	0	2	2	13	15	0
OH	Darby Electric Generating Station	55247	CT5	19	0	0	0	3	3	14	17	0
OH	Darby Electric Generating Station	55247	CT6	18	0	0	0	2	2	13	15	0
OH	Darby Electric Generating Station	55247	OVERDF	0	97	0	97					95
OH	Dicks Creek Station	2831	1	7	1	0	1	0	0	0	0	0
OH	Eastlake	2837	1	209	349	17	366	349	349	0	349	349
OH	Eastlake	2837	2	225	401	18	419	401	401	0	401	401
OH	Eastlake	2837	3	246	410	20	430	410	410	0	410	410
OH	Eastlake	2837	4	363	643	30	673	643	643	0	643	643
OH	Eastlake	2837	5	953	2,500	80	2,580	2,500	2,500	0	2,500	2,500
OH	Eastlake	2837	6	1	10	0	10	10	10	0	10	10
OH	Eastlake	2837	OVERDF	0	55	55	110					0
OH	Edgewater (2857)	2857	A	1	1	0	1	10	10	0	10	1
OH	Edgewater (2857)	2857	B	1	1	0	1	9	9	0	9	1
OH	Edgewater (2857)	2857	OVERDF	0	27	15	42					17
OH	Frank M Tait Station	2847	1	23	0	0	0	5	5	0	5	0
OH	Frank M Tait Station	2847	2	24	0	0	0	5	5	0	5	0
OH	Frank M Tait Station	2847	3	50	50	0	50	3	3	48	51	50
OH	Frank M Tait Station	2847	OVERDF	0	14	18	32					11

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	Gen J M Gavin	8102	1	2,686	1,331	0	1,331	1,331	1,331	0	1,331	1,331
OH	Gen J M Gavin	8102	2	2,918	1,262	1,110	2,372	1,528	1,528	0	1,528	1,262
OH	Gen J M Gavin	8102	B001	0	1	0	1	1	1	0	1	1
OH	Gen J M Gavin	8102	B002	0	1	0	1	1	1	0	1	1
OH	Gen J M Gavin	8102	OVERDF	0	155	0	155					0
OH	Greenville Electric Gen Station	55228	G1CT1	6	0	0	0	2	2	4	6	0
OH	Greenville Electric Gen Station	55228	G1CT2	12	0	0	0	3	3	4	7	0
OH	Greenville Electric Gen Station	55228	G2CT1	6	0	0	0	2	2	4	6	0
OH	Greenville Electric Gen Station	55228	G2CT2	0	0	0	0	3	3	4	7	0
OH	Greenville Electric Gen Station	55228	G3CT1	6	0	0	0	3	3	4	7	0
OH	Greenville Electric Gen Station	55228	G3CT2	6	0	0	0	2	2	4	6	0
OH	Greenville Electric Gen Station	55228	G4CT1	6	0	0	0	2	2	4	6	0
OH	Greenville Electric Gen Station	55228	G4CT2	6	0	0	0	3	3	4	7	0
OH	Greenville Electric Gen Station	55228	OVERDF	0	54	0	54					52
OH	Hamilton Municipal Power Plant	2917	8	511	139	0	139	139	139	0	139	139
OH	Hamilton Municipal Power Plant	2917	9	108	302	8	310	301	301	0	301	301
OH	Hamilton Municipal Power Plant	2917	OVERDF	0	78	45	123					0
OH	Hanging Rock Energy Facility	55736	CTG1	10	19	0	19	19	19	0	19	19
OH	Hanging Rock Energy Facility	55736	CTG2	10	17	0	17	16	16	0	16	16
OH	Hanging Rock Energy Facility	55736	CTG3	10	17	0	17	17	17	0	17	17
OH	Hanging Rock Energy Facility	55736	CTG4	10	14	0	14	14	14	0	14	14
OH	Hanging Rock Energy Facility	55736	OVERDF	0	4	18	22					0
OH	ISG Cleveland Inc	10398	B001	137	18	0	18	18	18	0	18	18
OH	ISG Cleveland Inc	10398	B002	148	0	0	0	0	0	0	0	0
OH	ISG Cleveland Inc	10398	B003	157	20	0	20	19	19	0	19	19
OH	ISG Cleveland Inc	10398	B004	156	0	0	0	0	0	0	0	0
OH	ISG Cleveland Inc	10398	B007	153	8	0	8	7	7	0	7	7
OH	ISG Cleveland Inc	10398	OVERDF	0	7	0	7					0
OH	J M Stuart	2850	1	1,032	0	0	0	826	826	0	826	0
OH	J M Stuart	2850	2	1,202	0	0	0	778	778	0	778	0
OH	J M Stuart	2850	3	1,051	0	0	0	829	829	0	829	0
OH	J M Stuart	2850	4	1,083	0	0	0	639	639	0	639	0
OH	J M Stuart	2850	5	0	0	0	0	21	21	0	21	0
OH	J M Stuart	2850	OVERDF	0	3,093	145	3,238					3,093
OH	Killen Station	6031	2	1,670	1,670	771	2,441	1,670	1,670	0	1,670	1,670
OH	Kyger Creek	2876	CS001 (1, 2, 3, 4, 5)					1,284				
OH	Kyger Creek	2876	1	461	161	575	736		257	0	257	130



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	Kyger Creek	2876	2	461	161	575	736		257	0	257	130
OH	Kyger Creek	2876	3	468	168	590	758		257	0	257	127
OH	Kyger Creek	2876	4	455	155	562	717		257	0	257	133
OH	Kyger Creek	2876	5	445	145	642	787		256	0	256	115
OH	Kyger Creek	2876	OVERDF	0	0	0	0					0
OH	Lake Shore	2838	18	191	849	26	875	839	839	0	839	839
OH	Lima Refinery	880083	B026	16	43	5	48	37	37	0	37	37
OH	Mad River	2860	A	2	2	0	2	7	7	0	7	2
OH	Mad River	2860	B	2	2	0	2	7	7	0	7	2
OH	Mad River	2860	OVERDF	0	14	10	24					10
OH	Madison Generating Station	55110	1	42	42	0	42	2	2	39	41	41
OH	Madison Generating Station	55110	2	42	45	0	45	3	3	39	42	42
OH	Madison Generating Station	55110	3	42	44	0	44	2	2	39	41	41
OH	Madison Generating Station	55110	4	42	42	0	42	2	2	39	41	41
OH	Madison Generating Station	55110	5	42	42	0	42	2	2	39	41	41
OH	Madison Generating Station	55110	6	42	42	0	42	2	2	39	41	41
OH	Madison Generating Station	55110	7	42	42	0	42	2	2	40	42	42
OH	Madison Generating Station	55110	8	42	42	0	42	3	3	40	43	42
OH	Madison Generating Station	55110	OVERDF	0	17	0	17					1
OH	Miami Fort Generating Station	2832	5-1	34	0	0	0		0	0	0	0
OH	Miami Fort Generating Station	2832	5-2	34	0	0	0		0	0	0	0
OH	Miami Fort Generating Station	2832	CS056 (5-1, 5-2, 6)					524				
OH	Miami Fort Generating Station	2832	6	390	531	0	531		524	0	524	524
OH	Miami Fort Generating Station	2832	7	1,022	358	0	358	357	357	0	357	357
OH	Miami Fort Generating Station	2832	8	994	428	0	428	419	419	0	419	419
OH	Miami Fort Generating Station	2832	OVERDF	0	40	208	248					0
OH	Muskingum River	2872	CS014 (1, 2, 3, 4)					4,001				
OH	Muskingum River	2872	1	302	1,032	0	1,032		1,032	0	1,032	1,032
OH	Muskingum River	2872	2	309	1,011	0	1,011		1,011	0	1,011	1,011
OH	Muskingum River	2872	3	340	857	0	857		857	0	857	857
OH	Muskingum River	2872	4	342	1,101	0	1,101		1,101	0	1,101	1,101
OH	Muskingum River	2872	5	1,082	305	0	305	305	305	0	305	305
OH	Muskingum River	2872	B001	0	5	0	5	5	5	0	5	5
OH	Muskingum River	2872	OVERDF	0	80	0	80					0
OH	Niles	2861	XS12 (1, 2)					1,870				
OH	Niles	2861	1	208	1,084	0	1,084		1,084	0	1,084	1,084
OH	Niles	2861	2	157	786	0	786		786	0	786	786

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	Niles	2861	CTA	2	0	0	0	0	0	0	0	0
OH	Niles	2861	OVERDF	0	15	0	15					0
OH	O H Hutchings	2848	H-1	23	0	0	0	11	0	11		0
OH	O H Hutchings	2848	H-2	36	0	0	0	11	0	11		0
OH	O H Hutchings	2848	H-3	63	0	0	0	156	0	156		0
OH	O H Hutchings	2848	H-4	67	0	0	0	155	0	155		0
OH	O H Hutchings	2848	H-5	61	0	0	0	153	0	153		0
OH	O H Hutchings	2848	H-6	68	0	0	0	153	0	153		0
OH	O H Hutchings	2848	H-7	1	0	0	0	0	0	0		0
OH	O H Hutchings	2848	CS0001 (H-1, H-2)					22				
OH	O H Hutchings	2848	CS0002 (H-3, H-4)					311				
OH	O H Hutchings	2848	CS0003 (H-5, H-6)					306				
OH	O H Hutchings	2848	OVERDF	0	794	151	945					639
OH	Omega JV2 Bowling Green	7783	P001	30	30	0	30	1	1	29	30	30
OH	Omega JV2 Hamilton	7782	P001	30	30	1	31	0	0	30	30	30
OH	P H Glatfelter Company - Chillicothe Fac	10244	B002	205	0	0	0	203	203	0	203	0
OH	P H Glatfelter Company - Chillicothe Fac	10244	B003	248	0	0	0	427	427	0	427	0
OH	P H Glatfelter Company - Chillicothe Fac	10244	OVERDF	0	635	46	681					630
OH	Picway	2843	9	138	526	0	526	519	519	0	519	519
OH	Procter & Gamble Company - Ivorydale	880028	B022	292	317	63	380	310	310	0	310	310
OH	Procter & Gamble Company - Ivorydale	880028	OVERDF	0	0	0	0					0
OH	R E Burger	2864	CS0001 (5, 6, 7, 8)					1,501				
OH	R E Burger	2864	5	14	104	0	104		105	0	105	104
OH	R E Burger	2864	6	13	83	0	83		84	0	84	83
OH	R E Burger	2864	7	330	627	0	627		642	0	642	627
OH	R E Burger	2864	8	268	658	0	658		670	0	670	658
OH	R E Burger	2864	OVERDF	0	40	78	118					29
OH	Republic Engineered Products-Lorain	880077	B013	157	22	20	42	22	22	0	22	22
OH	Richard Gorsuch	7253	CS0001 (1, 2, 3, 4)					1,255				
OH	Richard Gorsuch	7253	1	143	0	0	0		314	0	314	0
OH	Richard Gorsuch	7253	2	135	0	0	0		314	0	314	0
OH	Richard Gorsuch	7253	3	141	0	0	0		314	0	314	0
OH	Richard Gorsuch	7253	4	143	0	0	0		313	0	313	0
OH	Richard Gorsuch	7253	OVERDF	0	1,217	106	1,323					1,217

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	Richland Peaking Station	2880	CTG4	37	37	0	37	9	9	34	43	37
OH	Richland Peaking Station	2880	CTG5	36	36	0	36	8	8	33	41	36
OH	Richland Peaking Station	2880	CTG6	36	36	0	36	8	8	33	41	36
OH	Richland Peaking Station	2880	OVERDF	0	0	30	30					0
OH	Robert P Mone	7872	1	37	0	0	0	5	5	29	34	0
OH	Robert P Mone	7872	2	37	0	0	0	4	4	30	34	0
OH	Robert P Mone	7872	3	37	0	0	0	5	5	30	35	0
OH	Robert P Mone	7872	OVERDF	0	105	3	108					103
OH	Rolling Hills Generating LLC	55401	CT-1	98	98	0	98	2	2	96	98	98
OH	Rolling Hills Generating LLC	55401	CT-2	98	98	0	98	1	1	97	98	98
OH	Rolling Hills Generating LLC	55401	CT-3	98	98	0	98	2	2	96	98	98
OH	Rolling Hills Generating LLC	55401	CT-4	98	98	0	98	2	2	96	98	98
OH	Rolling Hills Generating LLC	55401	CT-5	98	98	0	98	2	2	96	98	98
OH	Rolling Hills Generating LLC	55401	OVERDF	0	2	0	2					0
OH	Smart Papers LLC	50247	B010	264	147	17	164	147	147	0	147	147
OH	Sunoco, Inc. (R&M) Toledo Refinery	50965	B044	47	2	0	2	0	0	0	0	0
OH	Tait Electric Generating Station	55248	CT4	135	135	0	135	3	3	122	125	125
OH	Tait Electric Generating Station	55248	CT5	135	135	0	135	3	3	122	125	125
OH	Tait Electric Generating Station	55248	CT6	135	135	0	135	3	3	122	125	125
OH	Tait Electric Generating Station	55248	CT7	134	134	0	134	3	3	120	123	123
OH	Tait Electric Generating Station	55248	OVERDF	0	0	72	72					0
OH	The Ohio State University	50044	B132	9	9	4	13	4	4	3	7	7
OH	Troy Energy, LLC	55348	1	28	28	7	35	4	4	25	29	28
OH	Troy Energy, LLC	55348	2	28	28	6	34	3	3	25	28	28
OH	Troy Energy, LLC	55348	3	28	28	1	29	4	4	25	29	28
<b>OH</b>	<b>Troy Energy, LLC<sup>6</sup></b>	<b>55348</b>	<b>4</b>	<b>27</b>	<b>27</b>	<b>0</b>	<b>27</b>	<b>3</b>	<b>3</b>	<b>25</b>	<b>28</b>	<b>27</b>
OH	Troy Energy, LLC	55348	OVERDF	0	0	0	0					0
OH	W H Sammis	2866	CS0001 (1, 2)					1,205				
OH	W H Sammis	2866	1	394	605	0	605		622	0	622	605
OH	W H Sammis	2866	2	409	562	0	562		583	0	583	562
OH	W H Sammis	2866	CS0002 (3, 4)					1,060				
OH	W H Sammis	2866	3	392	527	0	527		544	0	544	527
OH	W H Sammis	2866	4	406	499	0	499		516	0	516	499
OH	W H Sammis	2866	5	618	1,087	0	1,087	1,114	1,114	0	1,114	1,087
OH	W H Sammis	2866	6	1,195	2,847	0	2,847	2,846	2,846	0	2,846	2,846
OH	W H Sammis	2866	7	1,232	1,298	0	1,298	2,798	2,798	0	2,798	1,298
OH	W H Sammis	2866	OVERDF	0	1,727	568	2,295					1,599
OH	W H Zimmer Generating Station	6019	1	2,857	1,051	268	1,319	998	998	0	998	998

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	W H Zimmer Generating Station	6019	A	0	1	0	1	1	1	0	1	1
OH	W H Zimmer Generating Station	6019	B	0	2	0	2	2	2	0	2	2
OH	W H Zimmer Generating Station	6019	OVERDF	0	0	0	0					0
OH	Walter C Beckjord Generating Station	2830	1	163	653	0	653	652	652	0	652	652
OH	Walter C Beckjord Generating Station	2830	2	194	703	0	703	702	702	0	702	702
OH	Walter C Beckjord Generating Station	2830	3	275	732	0	732	732	732	0	732	732
OH	Walter C Beckjord Generating Station	2830	4	340	584	0	584	584	584	0	584	584
OH	Walter C Beckjord Generating Station	2830	5	471	940	0	940	911	911	0	911	911
OH	Walter C Beckjord Generating Station	2830	6	832	1,308	0	1,308	1,308	1,308	0	1,308	1,308
OH	Walter C Beckjord Generating Station	2830	CT1	3	13	0	13	13	13	0	13	13
OH	Walter C Beckjord Generating Station	2830	CT2	3	7	0	7	7	7	0	7	7
OH	Walter C Beckjord Generating Station	2830	CT3	4	1	0	1	0	0	0	0	0
OH	Walter C Beckjord Generating Station	2830	CT4	2	1	0	1	0	0	0	0	0
OH	Walter C Beckjord Generating Station	2830	OVERDF	0	241	1,312	1,553					0
OH	Washington Energy Facility	55397	CT1	21	21	0	21	13	13	9	22	21
OH	Washington Energy Facility	55397	CT2	21	21	0	21	15	15	9	24	21
OH	Washington Energy Facility	55397	OVERDF	0	4	7	11					4
OH	Waterford Plant	55503	1	21	0	0	0	24	24	13	37	0
OH	Waterford Plant	55503	2	21	0	0	0	27	27	12	39	0
OH	Waterford Plant	55503	3	21	0	0	0	13	13	13	26	0
OH	Waterford Plant	55503	OVERDF	0	105	0	105					102
OH	WCI Steel	54207	B001	111	0	0	0	210	210	0	210	0
OH	WCI Steel	54207	B002	29	0	0	0	0	0	0	0	0
OH	WCI Steel	54207	B004	140	0	0	0	39	39	0	39	0
OH	WCI Steel	54207	OVERDF	0	242	39	281					242
OH	West Lorain	2869	1A	0	0	0	0	10	10	0	10	0
OH	West Lorain	2869	1B	0	0	0	0	10	10	0	10	0
OH	West Lorain	2869	2	58	58	5	63	2	2	55	57	57
OH	West Lorain	2869	3	58	58	1	59	1	1	55	56	56
OH	West Lorain	2869	4	58	58	1	59	1	1	54	55	55
OH	West Lorain	2869	5	57	57	5	62	2	2	50	52	52
OH	West Lorain	2869	6	57	57	4	61	2	2	51	53	53
OH	West Lorain	2869	OVERDF	0	0	71	71					0
OH	Woodsdale	7158	**GT1	29	11	0	11	10	10	0	10	10
OH	Woodsdale	7158	**GT2	29	1	0	1	1	1	0	1	1
OH	Woodsdale	7158	**GT3	38	13	0	13	13	13	0	13	13
OH	Woodsdale	7158	**GT4	36	1	0	1	1	1	0	1	1
OH	Woodsdale	7158	**GT5	39	11	0	11	11	11	0	11	11

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
OH	Woodsdale	7158	**GT6	38	11	0	11	11	11	0	11	11
OH	Woodsdale	7158	OVERDF	0	17	0	17					0
PA	AES Beaver Valley LLC	10676	032	144	321	10	331	331	331	0	331	321
PA	AES Beaver Valley LLC	10676	033	131	270	1	271	270	270	0	270	270
PA	AES Beaver Valley LLC	10676	034	133	331	0	331	331	331	0	331	331
PA	AES Beaver Valley LLC	10676	035	67	168	0	168	168	168	0	168	168
PA	AES Beaver Valley LLC	10676	OVERDF	0	40	0	40					4
PA	AES Ironwood	55337	0001	35	40	4	44	39	39	0	39	39
PA	AES Ironwood	55337	0002	35	39	8	47	40	40	0	40	39
PA	AES Ironwood	55337	OVERDF	0	0	0	0					0
PA	Allegheny Energy Hunlock Unit 4	56397	4	15	23	0	23	8	8	6	14	14
PA	Allegheny Energy Unit 1 and Unit 2	55196	1	16	15	0	15	10	10	3	13	13
PA	Allegheny Energy Unit 1 and Unit 2	55196	2	16	16	0	16	8	8	6	14	14
PA	Allegheny Energy Unit 1 and Unit 2	55196	OVERDF	0	5	0	5					0
PA	Allegheny Energy Unit 8 and Unit 9	55377	8	20	22	0	22	1	1	19	20	20
PA	Allegheny Energy Unit 8 and Unit 9	55377	9	20	20	0	20	7	7	11	18	18
PA	Allegheny Energy Unit 8 and Unit 9	55377	OVERDF	0	5	0	5					0
PA	Allegheny Energy Units 3, 4 & 5	55710	3	15	19	0	19	12	12	5	17	17
PA	Allegheny Energy Units 3, 4 & 5	55710	4	15	27	0	27	21	21	4	25	25
PA	Allegheny Energy Units 3, 4 & 5	55710	OVERDF	0	5	0	5					0
PA	Armagh Compressor Station	880071	31301	20	20	0	20	0	0	0	0	0
PA	Armstrong Energy Ltd Part	55347	1	106	106	20	126	5	5	101	106	106
PA	Armstrong Energy Ltd Part	55347	2	106	106	12	118	3	3	101	104	104
PA	Armstrong Energy Ltd Part	55347	3	106	106	10	116	7	7	96	103	103
PA	Armstrong Energy Ltd Part	55347	4	106	106	11	117	3	3	102	105	105
PA	Armstrong Energy Ltd Part	55347	OVERDF	0	0	0	0					0
PA	Armstrong Power Station	3178	1	363	738	0	738	736	736	0	736	736
PA	Armstrong Power Station	3178	2	383	797	0	797	795	795	0	795	795
PA	Armstrong Power Station	3178	OVERDF	0	5	0	5					0
PA	Bernville Station	880049	32001	98	0	2	2	0	0	0	0	0
PA	Bethlehem Power Plant	55690	1	10	9	0	9	5	5	3	8	8
PA	Bethlehem Power Plant	55690	2	10	10	0	10	6	6	3	9	9
PA	Bethlehem Power Plant	55690	3	10	10	0	10	6	6	3	9	9
PA	Bethlehem Power Plant	55690	5	10	10	0	10	5	5	4	9	9
PA	Bethlehem Power Plant	55690	6	10	10	0	10	5	5	4	9	9
PA	Bethlehem Power Plant	55690	7	10	10	0	10	5	5	4	9	9
PA	Bethlehem Power Plant	55690	OVERDF	0	0	0	0					0
PA	Bruce Mansfield	6094	1	1,657	1,008	0	1,008	1,008	1,008	0	1,008	1,008

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	Bruce Mansfield	6094	2	1,672	1,052	0	1,052	1,052	1,052	0	1,052	1,052
PA	Bruce Mansfield	6094	3	1,636	1,301	0	1,301	1,301	1,301	0	1,301	1,301
PA	Bruce Mansfield	6094	OVERDF	0	30	30	60					0
PA	Brunner Island	3140	CS102 (1, 2)					2,596				
PA	Brunner Island	3140	1	568	1,098	0	1,098		1,098	0	1,098	1,098
PA	Brunner Island	3140	2	718	702	3,319	4,021		1,498	0	1,498	702
PA	Brunner Island	3140	3	1,539	1,716	6,705	8,421	3,325	3,325	0	3,325	1,716
PA	Brunner Island	3140	OVERDF	0	2	0	2					0
PA	Brunot Island Power Station	3096	2A	0	6	0	6	6	6	0	6	6
PA	Brunot Island Power Station	3096	2B	0	11	0	11	11	11	0	11	11
PA	Brunot Island Power Station	3096	3	0	6	0	6	6	6	0	6	6
PA	Brunot Island Power Station	3096	OVERDF	0	15	0	15					0
PA	Cambria Cogen	10641	1	155	100	0	100	100	100	0	100	100
PA	Cambria Cogen	10641	2	161	106	0	106	102	102	0	102	102
PA	Cambria Cogen	10641	OVERDF	0	0	0	0					0
PA	Chambersburg Units 12 and 13	55654	12	20	19	0	19	14	14	3	17	17
PA	Chambersburg Units 12 and 13	55654	13	20	18	0	18	16	16	0	16	16
PA	Chambersburg Units 12 and 13	55654	OVERDF	0	5	0	5					0
PA	Cheswick	8226	1	1,119	949	0	949	944	944	0	944	944
PA	Colver Power Project	10143	AAB01	291	291	10	301	268	268	0	268	262
PA	Conemaugh	3118	1	2,167	4,323	2	4,325	4,318	4,318	0	4,318	4,318
PA	Conemaugh	3118	2	1,995	2,956	0	2,956	2,951	2,951	0	2,951	2,951
PA	Conemaugh	3118	OVERDF	0	85	7	92					0
PA	ConocoPhillips Co., Trainer Refinery	880025	032	71	46	7	53	121	121	0	121	46
PA	ConocoPhillips Co., Trainer Refinery	880025	033	80	80	0	80	105	105	0	105	80
PA	ConocoPhillips Co., Trainer Refinery	880025	OVERDF	0	100	0	100					95
PA	Cromby	3159	1	377	0	0	0	779	779	0	779	0
PA	Cromby	3159	2	201	0	0	0	81	81	0	81	0
PA	Cromby	3159	OVERDF	0	697	764	1,461					697
PA	Croydon Generating Station	8012	11	11	0	0	0	2	2	0	2	0
PA	Croydon Generating Station	8012	12	9	0	0	0	2	2	0	2	0
PA	Croydon Generating Station	8012	21	5	0	0	0	8	8	0	8	0
PA	Croydon Generating Station	8012	22	11	0	0	0	4	4	0	4	0
PA	Croydon Generating Station	8012	31	13	0	0	0	2	2	0	2	0
PA	Croydon Generating Station	8012	32	6	0	0	0	2	2	0	2	0
PA	Croydon Generating Station	8012	41	11	0	0	0	2	2	0	2	0
PA	Croydon Generating Station	8012	42	9	0	0	0	2	2	0	2	0
PA	Croydon Generating Station	8012	OVERDF	0	32	44	76					24

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	Domtar Paper Company, LLC	54638	CS1 (040, 041)				277					
PA	Domtar Paper Company, LLC	54638	040	90	138	0	138	138	0	138	138	
<b>PA</b>	<b>Domtar Paper Company, LLC<sup>7</sup></b>	<b>54638</b>	<b>041</b>	<b>89</b>	<b>138</b>	<b>0</b>	<b>138</b>	<b>139</b>	<b>0</b>	<b>139</b>	<b>138</b>	
PA	Domtar Paper Company, LLC	54638	OVERDF	0	0	0	0				0	
PA	Ebensburg Power Company	10603	031	191	116	52	168	119	119	0	119	107
PA	Eddystone Generating Station	3161	1	565	0	0	0	1,372	1,372	0	1,372	0
PA	Eddystone Generating Station	3161	2	636	0	0	0	1,055	1,055	0	1,055	0
PA	Eddystone Generating Station	3161	CS034 (3, 4)					169				
PA	Eddystone Generating Station	3161	3	207	0	0	0		93	0	93	0
PA	Eddystone Generating Station	3161	4	237	0	0	0		76	0	76	0
PA	Eddystone Generating Station	3161	OVERDF	0	2,613	100	2,713					2,596
PA	Elrama	3098	CS001 (1, 2, 3, 4)					2,360				
PA	Elrama	3098	1	214	405	0	405		405	0	405	405
PA	Elrama	3098	2	209	560	0	560		560	0	560	560
PA	Elrama	3098	3	208	486	0	486		486	0	486	486
PA	Elrama	3098	4	428	909	0	909		909	0	909	909
PA	Elrama	3098	OVERDF	0	20	0	20					0
PA	Entriiken Compressor Station	880072	31601	20	20	0	20	0	0	0	0	0
PA	Fairless Energy, LLC	55298	1A	15	0	0	0	15	15	0	15	0
PA	Fairless Energy, LLC	55298	1B	15	0	0	0	18	18	0	18	0
PA	Fairless Energy, LLC	55298	2A	15	0	0	0	18	18	0	18	0
<b>PA</b>	<b>Fairless Energy, LLC<sup>8</sup></b>	<b>55298</b>	<b>2B</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>	<b>20</b>	<b>0</b>	<b>20</b>	<b>0</b>
PA	Fairless Energy, LLC	55298	OVERDF	0	70	0	70					70
PA	Fairless Hills Generating Station	7701	PHBLR3	15	0	0	0	0	0	0	0	0
PA	Fairless Hills Generating Station	7701	PHBLR4	32	0	0	0	30	30	0	30	0
PA	Fairless Hills Generating Station	7701	PHBLR5	77	0	0	0	4	4	0	4	0
PA	Fairless Hills Generating Station	7701	OVERDF	0	38	14	52					34
PA	Fayette Energy Facility	55516	CTG1	0	9	0	9	9	9	0	9	9
PA	Fayette Energy Facility	55516	CTG2	0	9	0	9	9	9	0	9	9
PA	Fayette Energy Facility	55516	OVERDF	0	4	5	9					0
PA	FPL Energy Marcus Hook, LP	55801	0001	21	0	0	0	24	24	3	27	0
PA	FPL Energy Marcus Hook, LP	55801	0002	21	0	0	0	31	31	1	32	0
PA	FPL Energy Marcus Hook, LP	55801	0003	21	0	0	0	36	36	0	36	0
PA	FPL Energy Marcus Hook, LP	55801	AB01	16	0	0	0	9	9	0	9	0
PA	FPL Energy Marcus Hook, LP	55801	AB02	16	0	0	0	14	14	0	14	0
PA	FPL Energy Marcus Hook, LP	55801	AB03	16	0	0	0	11	11	0	11	0
PA	FPL Energy Marcus Hook, LP	55801	AB04	16	0	0	0	12	12	0	12	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	FPL Energy Marcus Hook, LP	55801	OVERDF	0	152	20	172					141
PA	FPL Energy MH50	50074	001	163	44	3	47	43	43	0	43	43
PA	G F Weaton	50130	34	176	277	21	298	289	289	0	289	277
PA	G F Weaton	50130	35	180	279	0	279	279	279	0	279	279
PA	G F Weaton	50130	OVERDF	0	0	16	16					0
PA	Gilberton Power Company	10113	CS001 (031, 032)					72				
PA	Gilberton Power Company	10113	031	137	87	0	87		36	0	36	36
PA	Gilberton Power Company	10113	032	136	86	0	86		36	0	36	36
PA	Gilberton Power Company	10113	OVERDF	0	0	0	0					0
PA	Grays Ferry Cogen Partnership	54785	2	0	17	20	37	17	17	0	17	17
PA	Grays Ferry Cogen Partnership	54785	25	0	43	17	60	43	43	0	43	43
PA	Grays Ferry Cogen Partnership	54785	OVERDF	0	0	0	0					0
PA	Handsome Lake Energy	55233	EU-1A	21	21	0	21	3	3	15	18	18
PA	Handsome Lake Energy	55233	EU-1B	21	21	0	21	3	3	15	18	18
PA	Handsome Lake Energy	55233	EU-2A	21	21	0	21	3	3	15	18	18
PA	Handsome Lake Energy	55233	EU-2B	21	21	0	21	3	3	15	18	18
PA	Handsome Lake Energy	55233	EU-3A	21	21	0	21	2	2	16	18	18
PA	Handsome Lake Energy	55233	EU-3B	21	21	0	21	3	3	16	19	19
PA	Handsome Lake Energy	55233	EU-4A	21	21	0	21	1	1	18	19	19
PA	Handsome Lake Energy	55233	EU-4B	21	21	0	21	2	2	16	18	18
PA	Handsome Lake Energy	55233	EU-5A	21	21	0	21	3	3	15	18	18
PA	Handsome Lake Energy	55233	EU-5B	21	21	0	21	3	3	15	18	18
PA	Handsome Lake Energy	55233	OVERDF	0	0	0	0					0
PA	Hatfields Ferry Power Station	3179	XS123 (1, 2, 3)					8,604				
PA	Hatfields Ferry Power Station	3179	1	1,155	3,065	0	3,065		3,063	0	3,063	3,063
PA	Hatfields Ferry Power Station	3179	2	1,029	2,652	0	2,652		2,650	0	2,650	2,650
PA	Hatfields Ferry Power Station	3179	3	1,087	2,893	0	2,893		2,891	0	2,891	2,891
PA	Hatfields Ferry Power Station	3179	OVERDF	0	5	0	5					0
PA	Homer City	3122	1	1,471	1,110	0	1,110	1,110	1,110	0	1,110	1,110
PA	Homer City	3122	2	1,553	807	0	807	807	807	0	807	807
PA	Homer City	3122	3	1,437	1,437	0	1,437	1,911	1,911	0	1,911	1,437
PA	Homer City	3122	OVERDF	0	484	92	576					474
PA	Hunlock Power Station	3176	6	131	232	8	240	230	230	0	230	230
PA	Hunterstown Combined Cycle	55976	CT101	20	18	0	18	12	12	6	18	18
PA	Hunterstown Combined Cycle	55976	CT201	20	19	0	19	10	10	9	19	19
PA	Hunterstown Combined Cycle	55976	CT301	20	14	0	14	9	9	5	14	14
PA	Hunterstown Combined Cycle	55976	OVERDF	0	6	0	6					0



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	Keystone	3136	1	2,154	877	1	878	872	872	0	872	872
PA	Keystone	3136	2	2,133	573	3	576	568	568	0	568	568
PA	Keystone	3136	OVERDF	0	0	0	0					0
PA	Kimberly-Clark Tissue Company	50410	034	1	1	0	1	8	8	0	8	1
PA	Kimberly-Clark Tissue Company	50410	035	345	0	0	0	59	59	0	59	0
PA	Kimberly-Clark Tissue Company	50410	OVERDF	0	72	3	75					66
PA	Liberty Electric Power Plant	55231	0001	31	31	15	46	25	25	0	25	25
PA	Liberty Electric Power Plant	55231	0002	31	31	12	43	24	24	0	24	24
PA	Liberty Electric Power Plant	55231	OVERDF	0	0	0	0					0
PA	Lower Mount Bethel Energy	55667	CT01	19	19	0	19	18	18	1	19	19
PA	Lower Mount Bethel Energy	55667	CT02	19	19	0	19	18	18	1	19	19
PA	Lower Mount Bethel Energy	55667	OVERDF	0	0	0	0					0
PA	Martins Creek	3148	CS102 (1, 2)					1,228				
PA	Martins Creek	3148	1	314	628	0	628		628	0	628	628
PA	Martins Creek	3148	2	293	600	0	600		600	0	600	600
PA	Martins Creek	3148	3	543	398	0	398	398	398	0	398	398
PA	Martins Creek	3148	4	500	224	0	224	224	224	0	224	224
PA	Martins Creek	3148	AUX4B	0	0	0	0	0	0	0	0	0
PA	Martins Creek	3148	OVERDF	0	2	0	2					0
PA	Merck & Company - West Point	52149	039	139	27	0	27	27	27	0	27	27
PA	Merck & Company - West Point	52149	040	0	5	12	17	8	8	0	8	1
PA	Merck & Company - West Point	52149	OVERDF	0	107	0	107					0
PA	Mitchell Power Station	3181	1	10	2	0	2	1	1	0	1	1
PA	Mitchell Power Station	3181	2	6	4	0	4	0	0	0	0	0
PA	Mitchell Power Station	3181	3	9	2	0	2	2	2	0	2	2
PA	Mitchell Power Station	3181	33	556	192	0	192	190	190	0	190	190
PA	Mitchell Power Station	3181	OVERDF	0	3	0	3					0
PA	Montour	3149	1	1,560	639	0	639	639	639	0	639	639
PA	Montour	3149	2	1,673	821	0	821	821	821	0	821	821
PA	Montour	3149	AUX1	0	7	0	7	7	7	0	7	7
PA	Montour	3149	AUX2	0	4	0	4	4	4	0	4	4
PA	Montour	3149	OVERDF	0	2	0	2					0
PA	Mountain	3111	031	5	29	0	29	29	29	0	29	29
PA	Mountain	3111	032	5	27	0	27	27	27	0	27	27
PA	Mountain	3111	OVERDF	0	5	0	5					0
PA	Mt. Carmel Cogeneration	10343	SG-101	152	114	12	126	121	121	0	121	114
PA	New Castle	3138	3	190	362	0	362	362	362	0	362	362
PA	New Castle	3138	4	195	348	0	348	348	348	0	348	348

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	New Castle	3138	5	245	529	0	529	529	529	0	529	529
PA	New Castle	3138	OVERDF	0	15	0	15					0
PA	North East Cogeneration Plant	54571	001	103	3	2	5	2	2	0	2	1
PA	North East Cogeneration Plant	54571	002	109	9	6	15	3	3	0	3	0
PA	North East Cogeneration Plant	54571	OVERDF	0	0	0	0					0
PA	Northampton Generating Plant	50888	NGC01	291	170	0	170	170	170	0	170	170
PA	Northeastern Power Company	50039	031	188	88	3	91	61	61	0	61	61
PA	Ontelaunee Energy Center	55193	CT1	10	10	0	10	10	10	1	11	10
PA	Ontelaunee Energy Center	55193	CT2	10	10	0	10	10	10	0	10	10
PA	Ontelaunee Energy Center	55193	OVERDF	0	2	2	4					1
PA	P H Glatfelter Company	50397	034	112	278	6	284	278	278	0	278	275
PA	P H Glatfelter Company	50397	035	137	236	0	236	236	236	0	236	236
PA	P H Glatfelter Company	50397	036	211	132	0	132	132	132	0	132	132
PA	P H Glatfelter Company	50397	OVERDF	0	4	0	4					0
PA	Panther Creek Energy Facility	50776	1	134	108	2	110	108	108	0	108	107
PA	Panther Creek Energy Facility	50776	2	130	121	2	123	122	122	0	122	121
PA	Panther Creek Energy Facility	50776	OVERDF	0	0	0	0					0
PA	PEI Power Power Corporation	50279	2	0	3	8	11	8	8	0	8	3
PA	PEI Power Power Corporation	50279	OVERDF	0	0	0	0					0
PA	Philadelphia Refinery	52106	CS0001 (150137, 150138, 150139, 150140)					257				
PA	Philadelphia Refinery	52106	150137	49	49	0	49		39	0	39	39
PA	Philadelphia Refinery	52106	150138	83	83	0	83		57	0	57	57
PA	Philadelphia Refinery	52106	150139	105	105	0	105		59	0	59	59
PA	Philadelphia Refinery	52106	150140	127	113	0	113		102	0	102	102
PA	Philadelphia Refinery	52106	OVERDF	0	0	0	0					0
PA	Piney Creek Power Plant	54144	031	102	82	2	84	80	80	0	80	80
PA	Portland	3113	1	266	426	0	426	426	426	0	426	426
PA	Portland	3113	2	412	916	0	916	916	916	0	916	916
PA	Portland	3113	5	48	5	0	5	5	5	0	5	5
PA	Portland	3113	OVERDF	0	15	0	15					0
<b>PA</b>	<b>Procter &amp; Gamble Paper Products<sup>9</sup></b>	<b>50463</b>	<b>328001</b>	<b>199</b>	<b>125</b>	<b>0</b>	<b>125</b>	<b>132</b>	<b>132</b>	<b>0</b>	<b>132</b>	<b>125</b>
PA	Richmond	3168	91	10	0	0	0	4	4	0	4	0
PA	Richmond	3168	92	9	0	0	0	3	3	0	3	0
PA	Richmond	3168	OVERDF	0	10	8	18					7
PA	Schuykill	3169	1	84	0	0	0	50	50	0	50	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	Schuykill	3169	OVERDF	0	55	10	65					50
PA	Scrubgrass Generating Plant	50974	1	124	0	0	0	93	93	0	93	0
PA	Scrubgrass Generating Plant	50974	2	123	0	0	0	142	142	0	142	0
PA	Scrubgrass Generating Plant	50974	OVERDF	0	237	31	268					235
PA	Seward	3130	CS1 (1, 2)					709				
PA	Seward	3130	1	267	383	0	383		383	0	383	383
PA	Seward	3130	2	267	326	0	326		326	0	326	326
PA	Seward	3130	OVERDF	0	10	0	10					0
PA	Shawville	3131	1	295	692	0	692	692	692	0	692	692
PA	Shawville	3131	2	294	661	0	661	661	661	0	661	661
PA	Shawville	3131	CS1 (3, 4)					1,603				
PA	Shawville	3131	3	380	787	0	787		787	0	787	787
PA	Shawville	3131	4	392	816	0	816		816	0	816	816
PA	Shawville	3131	OVERDF	0	20	0	20					0
PA	Shenango Incorporated	54532	6	59	9	49	58	0	0	0	0	0
PA	Shenango Incorporated	54532	9	11	11	3	14	0	0	0	0	0
PA	Shenango Incorporated	54532	OVERDF	0	0	0	0					0
PA	Shermans Dale Station	880050	31801	0	0	0	0	0	0	0	0	0
PA	St. Nicholas Cogeneration Project	54634	1	289	82	0	82	81	81	0	81	81
PA	Sunbury	3152	CS1 (1A, 1B)					445				
PA	Sunbury	3152	1A	134	0	0	0		235	0	235	0
PA	Sunbury	3152	1B	122	0	0	0		210	0	210	0
PA	Sunbury	3152	CS2 (2A, 2B)					413				
PA	Sunbury	3152	2A	130	0	0	0		206	0	206	0
PA	Sunbury	3152	2B	134	0	0	0		207	0	207	0
PA	Sunbury	3152	3	263	0	0	0	423	423	0	423	0
PA	Sunbury	3152	4	302	0	0	0	273	273	0	273	0
PA	Sunbury	3152	OVERDF	0	1,570	0	1,570					1,554
PA	Sunoco Chemicals Frankford Plant	880007	052	86	86	0	86	18	18	0	18	18
PA	Titus	3115	CS1 (1, 2, 3)					927				
PA	Titus	3115	1	161	331	0	331		331	0	331	331
PA	Titus	3115	2	152	304	0	304		304	0	304	304
PA	Titus	3115	3	151	292	0	292		292	0	292	292
PA	Titus	3115	OVERDF	0	15	0	15					0
PA	Tolna	3116	031	3	14	0	14	14	14	0	14	14
PA	Tolna	3116	032	4	12	0	12	12	12	0	12	12
PA	Tolna	3116	OVERDF	0	4	0	4					0
PA	Trigen Energy - Schuykill	50607	23	233	6	16	22	6	6	0	6	6

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
PA	Trigen Energy - Schuylkill	50607	24	234	13	16	29	13	13	0	13	13
PA	Trigen Energy - Schuylkill	50607	26	234	7	130	137	7	7	0	7	7
PA	Trigen Energy - Schuylkill	50607	OVERDF	0	0	0	0					0
PA	Trigen Energy Corporation-Edison St	880006	1	12	14	10	24	14	14	0	14	14
PA	Trigen Energy Corporation-Edison St	880006	2	10	15	3	18	15	15	0	15	15
PA	Trigen Energy Corporation-Edison St	880006	3	5	24	1	25	24	24	0	24	24
PA	Trigen Energy Corporation-Edison St	880006	4	6	4	4	8	4	4	0	4	4
PA	Trigen Energy Corporation-Edison St	880006	OVERDF	0	0	0	0					0
PA	US Steel (Clariton Coke)	50729	CLBLR1	191	74	0	74	73	73	0	73	73
PA	US Steel (Clariton Coke)	50729	CLBLR2	118	57	0	57	57	57	0	57	57
PA	US Steel (Clariton Coke)	50729	OVERDF	0	0	0	0					0
<b>PA</b>	<b>US Steel (Edgar Thompson)<sup>10</sup></b>	<b>50732</b>	<b>ETBLR1</b>	<b>142</b>	<b>25</b>	<b>0</b>	<b>25</b>	<b>28</b>	<b>28</b>	<b>0</b>	<b>28</b>	<b>25</b>
PA	US Steel (Edgar Thompson)	50732	ETBLR2	157	29	8	37	26	26	0	26	26
PA	US Steel (Edgar Thompson)	50732	ETBLR3	151	27	9	36	24	24	0	24	24
PA	US Steel (Edgar Thompson)	50732	OVERDF	0	0	0	0					0
PA	Warren	3132	005	14	0	0	0	0	0	0	0	0
PA	Warren	3132	OVERDF	0	0	0	0					0
PA	Wheelabrator - Frackville	50879	GEN1	161	122	1	123	122	122	0	122	122
PA	Williams Generation Co (Hazleton)	10870	TURB2	15	15	0	15	1	1	13	14	14
PA	Williams Generation Co (Hazleton)	10870	TURB3	15	15	0	15	1	1	14	15	15
PA	Williams Generation Co (Hazleton)	10870	TURB4	15	15	0	15	2	2	13	15	15
PA	Williams Generation Co (Hazleton)	10870	TURBIN	141	0	3	3	2	2	0	2	0
PA	Williams Generation Co (Hazleton)	10870	OVERDF	0	3	0	3					0
PA	WPS Westwood Generation, LLC	50611	031	98	98	10	108	98	98	0	98	98
RI	Manchester Street	3236	10	87	0	0	0	19	19	0	19	0
RI	Manchester Street	3236	11	88	0	0	0	16	16	0	16	0
RI	Manchester Street	3236	9	87	0	0	0	17	17	0	17	0
RI	Manchester Street	3236	OVERDF	0	175	68	243					52
RI	Ocean State Power	51030	1	68	43	1	44	18	18	0	18	18
RI	Ocean State Power	51030	2	69	44	3	47	14	14	0	14	14
RI	Ocean State Power	51030	OVERDF	0	0	0	0					0
RI	Ocean State Power II	54324	3	69	49	3	52	26	26	0	26	26
RI	Ocean State Power II	54324	4	69	49	2	51	25	25	0	25	25
RI	Ocean State Power II	54324	OVERDF	0	0	0	0					0
RI	Pawtucket Power Associates, LP	54056	1	42	5	9	14	4	4	0	4	4
RI	Rhode Island State Energy Partners	55107	RISEP1	26	13	7	20	11	11	0	11	11
RI	Rhode Island State Energy Partners	55107	RISEP2	26	19	8	27	15	15	0	15	15
RI	Rhode Island State Energy Partners	55107	OVERDF	0	0	0	0					0

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					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
RI	Tiverton Power	55048	1	46	22	0	22	22	22	0	22	22
SC	Bowater Incorporated	2440	001	54	12	8	20	9	9	0	9	9
SC	BP Amoco Chemical Company CR Plant	880092	A	10	10	0	10	10	10	0	10	10
SC	BP Amoco Chemical Company CR Plant	880092	B	9	9	0	9	12	12	0	12	9
SC	BP Amoco Chemical Company CR Plant	880092	OVERDF	0	8	1	9					3
SC	Broad River Energy Center	55166	CT-1	84	23	6	29	25	25	0	25	22
SC	Broad River Energy Center	55166	CT-2	83	15	8	23	18	18	0	18	13
SC	Broad River Energy Center	55166	CT-3	73	24	8	32	28	28	0	28	23
SC	Broad River Energy Center	55166	CT-4	57	13	10	23	18	18	0	18	12
SC	Broad River Energy Center	55166	CT-5	36	18	7	25	21	21	0	21	17
SC	Broad River Energy Center	55166	OVERDF	0	0	0	0					0
SC	Canadys Steam	3280	CAN1	262	360	0	360	363	363	0	363	360
SC	Canadys Steam	3280	CAN2	268	687	0	687	689	689	0	689	687
SC	Canadys Steam	3280	CAN3	392	938	0	938	940	940	0	940	938
SC	Canadys Steam	3280	OVERDF	0	0	292	292					0
SC	Cherokee County Cogen	55043	CCCP1	167	26	161	187	18	18	0	18	18
SC	Cogen South	7737	B001	837	0	0	0	662	662	0	662	0
SC	Cogen South	7737	B002	12	0	0	0	2	2	0	2	0
SC	Cogen South	7737	B003	12	0	0	0	3	3	0	3	0
SC	Cogen South	7737	B004	11	0	0	0	3	3	0	3	0
SC	Cogen South	7737	OVERDF	0	700	0	700					670
SC	Columbia Energy Center (SC)	55386	B-1	8	4	2	6	4	4	0	4	3
SC	Columbia Energy Center (SC)	55386	B-2	7	4	4	8	5	5	0	5	3
SC	Columbia Energy Center (SC)	55386	B-3	12	9	3	12	10	10	0	10	8
SC	Columbia Energy Center (SC)	55386	CT-1	51	18	36	54	10	10	29	39	17
SC	Columbia Energy Center (SC)	55386	CT-2	51	20	36	56	15	15	26	41	19
SC	Columbia Energy Center (SC)	55386	OVERDF	0	0	0	0					0
SC	Cope Station	7210	COP1	1,153	1,683	322	2,005	1,721	1,721	0	1,721	1,683
SC	Cross	130	1	1,433	943	0	943	943	943	0	943	943
SC	Cross	130	2	1,450	970	0	970	970	970	0	970	970
SC	Cross	130	3	120	120	0	120	597	597	0	597	120
SC	Cross	130	OVERDF	0	487	0	487					477
SC	Darlington County	3250	1	16	17	0	17	16	16	0	16	16
SC	Darlington County	3250	10	9	13	0	13	12	12	0	12	12
SC	Darlington County	3250	11	9	12	0	12	11	11	0	11	11
SC	Darlington County	3250	12	48	25	0	25	24	24	0	24	24
SC	Darlington County	3250	13	48	22	0	22	21	21	0	21	21
SC	Darlington County	3250	2	10	15	0	15	14	14	0	14	14

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
SC	Darlington County	3250	3	11	15	0	15	14	14	0	14	14
SC	Darlington County	3250	4	10	15	0	15	14	14	0	14	14
SC	Darlington County	3250	5	13	26	0	26	25	25	0	25	25
SC	Darlington County	3250	6	9	19	0	19	18	18	0	18	18
SC	Darlington County	3250	7	15	21	0	21	20	20	0	20	20
SC	Darlington County	3250	8	8	17	0	17	16	16	0	16	16
SC	Darlington County	3250	9	9	17	0	17	16	16	0	16	16
SC	Darlington County	3250	OVERDF	0	16	22	38					0
SC	Dolphus M Grainger	3317	1	185	185	221	406	496	496	0	496	185
SC	Dolphus M Grainger	3317	2	189	189	0	189	465	465	0	465	189
SC	Dolphus M Grainger	3317	OVERDF	0	461	0	461					450
SC	H B Robinson	3251	1	364	841	16	857	788	788	0	788	788
SC	Hagood	3285	HAG4	35	22	0	22	24	24	0	24	22
SC	Hagood	3285	OVERDF	0	0	22	22					0
SC	Hilton Head Gas Turbine Site	3318	CT1	4	1	0	1	1	1	0	1	1
SC	Hilton Head Gas Turbine Site	3318	CT2	4	2	0	2	2	2	0	2	2
SC	Hilton Head Gas Turbine Site	3318	CT3	6	2	0	2	2	2	0	2	2
SC	Hilton Head Gas Turbine Site	3318	OVERDF	0	5	0	5					0
SC	International Paper-Eastover Mill	52151	001	401	227	7	234	220	220	0	220	220
SC	International Paper-Eastover Mill	52151	OVERDF	0	0	0	0					0
SC	INVISTA S.a.r.l. Camden Plant	880057	CS01 (03, 04)					102				
SC	INVISTA S.a.r.l. Camden Plant	880057	03	169	169	229	398		51	0	51	51
SC	INVISTA S.a.r.l. Camden Plant	880057	04	183	183	200	383		51	0	51	51
SC	Jasper County Generating Facility	55927	CT01	43	43	0	43	17	17	0	17	17
SC	Jasper County Generating Facility	55927	CT02	43	43	0	43	23	23	0	23	23
SC	Jasper County Generating Facility	55927	CT03	42	42	0	42	19	19	0	19	19
SC	Jasper County Generating Facility	55927	OVERDF	0	0	0	0					0
SC	Jefferies	3319	1	27	12	0	12	12	12	0	12	12
SC	Jefferies	3319	2	33	14	0	14	14	14	0	14	14
SC	Jefferies	3319	3	350	350	0	350	974	974	0	974	350
SC	Jefferies	3319	4	412	412	0	412	1,198	1,198	0	1,198	412
SC	Jefferies	3319	OVERDF	0	1,420	0	1,420					1,410
SC	John S. Rainey Generating Station	7834	CT1A	231	10	0	10	10	10	0	10	10
SC	John S. Rainey Generating Station	7834	CT1B	277	12	0	12	12	12	0	12	12
SC	John S. Rainey Generating Station	7834	CT2A	67	12	0	12	12	12	0	12	12
SC	John S. Rainey Generating Station	7834	CT2B	65	15	0	15	15	15	0	15	15
SC	John S. Rainey Generating Station	7834	CT3	23	4	0	4	4	4	6	10	4
SC	John S. Rainey Generating Station	7834	CT4	23	4	0	4	4	4	4	8	4

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
SC	John S. Rainey Generating Station	7834	CT5	22	4	0	4	4	4	4	8	4
SC	John S. Rainey Generating Station	7834	OVERDF	0	22	0	22					14
SC	Marlboro Paper Mill	880074	15	23	23	0	23	6	6	0	6	6
SC	McMeekin	3287	MCM1	286	500	0	500	507	507	0	507	500
SC	McMeekin	3287	MCM2	330	448	0	448	449	449	0	449	448
SC	McMeekin	3287	OVERDF	0	0	166	166					0
SC	Mill Creek Combustion Turbine Sta	7981	1	16	0	0	0	5	5	0	5	0
SC	Mill Creek Combustion Turbine Sta	7981	2	15	0	0	0	3	3	0	3	0
SC	Mill Creek Combustion Turbine Sta	7981	3	15	0	0	0	5	5	0	5	0
SC	Mill Creek Combustion Turbine Sta	7981	4	15	0	0	0	4	4	0	4	0
SC	Mill Creek Combustion Turbine Sta	7981	5	15	0	0	0	3	3	0	3	0
SC	Mill Creek Combustion Turbine Sta	7981	6	15	0	0	0	4	4	0	4	0
SC	Mill Creek Combustion Turbine Sta	7981	7	15	0	0	0	3	3	0	3	0
SC	Mill Creek Combustion Turbine Sta	7981	8	15	0	0	0	3	3	0	3	0
SC	Mill Creek Combustion Turbine Sta	7981	OVERDF	0	46	0	46					30
SC	Myrtle Beach Gas Turbine Site	3320	CT3	3	3	0	3	6	6	0	6	3
SC	Myrtle Beach Gas Turbine Site	3320	CT4	2	2	0	2	5	5	0	5	2
SC	Myrtle Beach Gas Turbine Site	3320	CT5	3	3	0	3	6	6	0	6	3
SC	Myrtle Beach Gas Turbine Site	3320	OVERDF	0	17	0	17					9
SC	Sonoco Products Company	880078	B04	228	228	134	362	192	192	0	192	192
SC	Springs Global US - Grace Facility	880068	03	102	0	3	3	0	0	0	0	0
SC	Springs Global US - Grace Facility	880068	04	26	0	0	0	0	0	0	0	0
SC	Springs Global US - Grace Facility	880068	OVERDF	0	0	0	0					0
SC	Stone Container Corporation	50806	16	807	514	0	514	513	513	0	513	513
SC	Urquhart	3295	URQ3	260	398	0	398	399	399	0	399	398
SC	Urquhart	3295	URQ4	12	8	0	8	8	8	0	8	8
SC	Urquhart	3295	URQ5	192	18	0	18	38	38	0	38	18
SC	Urquhart	3295	URQ6	158	36	0	36	37	37	0	37	36
SC	Urquhart	3295	OVERDF	0	0	186	186					0
SC	W S Lee	3264	1	129	0	0	0	142	142	0	142	0
SC	W S Lee	3264	2	147	0	0	0	204	204	0	204	0
SC	W S Lee	3264	3	256	0	0	0	382	382	0	382	0
SC	W S Lee	3264	7C	3	3	0	3	7	7	0	7	3
SC	W S Lee	3264	8C	2	2	0	2	8	8	0	8	2
SC	W S Lee	3264	OVERDF	0	717	115	832					717
SC	Wateree	3297	WAT1	712	229	0	229	232	232	0	232	229
SC	Wateree	3297	WAT2	730	280	0	280	281	281	0	281	280
SC	Wateree	3297	OVERDF	0	0	88	88					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
SC	Williams	3298	WIL1	1,519	1,114	0	1,114	1,118	1,118	0	1,118	1,114
SC	Williams	3298	WIL4	2	17	0	17	18	18	0	18	17
SC	Williams	3298	WIL5	2	18	0	18	20	20	0	20	18
SC	Williams	3298	OVERDF	0	0	183	183					0
SC	Winyah	6249	1	652	407	0	407	407	407	0	407	407
SC	Winyah	6249	2	673	440	0	440	427	427	0	427	427
SC	Winyah	6249	3	713	654	0	654	654	654	0	654	654
SC	Winyah	6249	4	671	591	0	591	591	591	0	591	591
SC	Winyah	6249	OVERDF	0	10	0	10					0
TN	Allen	3393	1	583	223	0	223	237	237	0	237	223
TN	Allen	3393	2	619	309	0	309	316	316	0	316	309
TN	Allen	3393	3	639	299	0	299	310	310	0	310	299
TN	Allen	3393	ACT17	18	5	0	5	5	5	0	5	5
TN	Allen	3393	ACT18	18	5	0	5	5	5	0	5	5
TN	Allen	3393	ACT19	18	6	0	6	6	6	0	6	6
TN	Allen	3393	ACT20	18	4	0	4	4	4	0	4	4
TN	Allen	3393	OVERDF	0	0	135	135					0
TN	Bowater Newsprint - Calhoun Operation	50956	11	240	0	0	0	79	79	0	79	0
TN	Bowater Newsprint - Calhoun Operation	50956	12	240	0	0	0	157	157	0	157	0
TN	Bowater Newsprint - Calhoun Operation	50956	OVERDF	0	233	6	239					233
TN	Brownsville Power I, LLC	55081	AA-001	60	60	0	60	3	3	57	60	60
TN	Brownsville Power I, LLC	55081	AA-002	60	60	0	60	4	4	56	60	60
TN	Brownsville Power I, LLC	55081	AA-003	64	64	0	64	7	7	57	64	64
TN	Brownsville Power I, LLC	55081	AA-004	64	64	0	64	3	3	61	64	64
TN	Brownsville Power I, LLC	55081	OVERDF	0	2	5	7					0
TN	Bull Run	3396	1	1,798	998	45	1,043	1,008	1,008	0	1,008	998
TN	Cargill Corn Milling	10729	8500	60	10	0	10	4	4	0	4	4
TN	Cumberland	3399	1	4,343	1,273	0	1,273	1,284	1,284	0	1,284	1,273
TN	Cumberland	3399	2	4,677	1,697	0	1,697	1,707	1,707	0	1,707	1,697
TN	Cumberland	3399	A1	0	0	0	0	2	2	0	2	0
TN	Cumberland	3399	OVERDF	0	0	97	97					0
TN	DOE Oak Ridge Y-12	880055	31	61	0	0	0	58	58	0	58	0
TN	DOE Oak Ridge Y-12	880055	32	61	0	0	0	5	5	0	5	0
TN	DOE Oak Ridge Y-12	880055	34	61	0	0	0	71	71	0	71	0
TN	DOE Oak Ridge Y-12	880055	OVERDF	0	244	83	327					134
TN	Dupont Old Hickory	10797	OP1	181	0	0	0	241	241	0	241	0
TN	Dupont Old Hickory	10797	OP3	205	0	0	0	190	190	0	190	0
TN	Dupont Old Hickory	10797	OVERDF	0	432	0	432					431



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
TN	Eastman Chemical Company	50481	253-25	337	307	6	313	307	307	0	307	307
TN	Eastman Chemical Company	50481	253-26	386	286	57	343	304	304	0	304	286
TN	Eastman Chemical Company	50481	253-27	387	312	132	444	313	313	0	313	312
TN	Eastman Chemical Company	50481	253-28	352	313	110	423	315	315	0	315	313
TN	Eastman Chemical Company	50481	253-29	310	260	147	407	260	260	0	260	260
TN	Eastman Chemical Company	50481	325-30	445	371	36	407	371	371	0	371	371
TN	Eastman Chemical Company	50481	325-31	577	301	194	495	301	301	0	301	301
TN	Eastman Chemical Company	50481	83-23	229	254	28	282	254	254	0	254	254
TN	Eastman Chemical Company	50481	83-24	180	199	0	199	199	199	0	199	199
TN	Eastman Chemical Company	50481	OVERDF	0	0	96	96					0
TN	Gallatin	3403	CSGA12 (1, 2)					1,082				
TN	Gallatin	3403	1	589	499	0	499		509	0	509	499
TN	Gallatin	3403	2	580	560	0	560		573	0	573	560
TN	Gallatin	3403	CSGA34 (3, 4)					1,379				
TN	Gallatin	3403	3	590	655	0	655		663	0	663	655
TN	Gallatin	3403	4	662	707	0	707		716	0	716	707
TN	Gallatin	3403	GCT1	7	28	0	28	28	28	0	28	28
TN	Gallatin	3403	GCT2	7	7	0	7	27	27	0	27	7
TN	Gallatin	3403	GCT3	7	7	0	7	34	34	0	34	7
TN	Gallatin	3403	GCT4	7	28	0	28	28	28	0	28	28
TN	Gallatin	3403	GCT5	18	18	0	18	3	3	15	18	18
TN	Gallatin	3403	GCT6	19	19	0	19	3	3	16	19	19
TN	Gallatin	3403	GCT7	19	19	0	19	3	3	16	19	19
TN	Gallatin	3403	GCT8	19	19	0	19	3	3	16	19	19
TN	Gallatin	3403	OVERDF	0	0	363	363					0
TN	Gleason Generating Facility	55251	CTG-1	81	81	0	81	14	14	67	81	81
TN	Gleason Generating Facility	55251	CTG-2	81	81	0	81	10	10	71	81	81
TN	Gleason Generating Facility	55251	CTG-3	83	83	0	83	6	6	77	83	83
TN	Gleason Generating Facility	55251	OVERDF	0	0	0	0					0
TN	John Sevier	3405	CSJS12 (1, 2)					1,578				
TN	John Sevier	3405	1	495	770	0	770		792	0	792	770
TN	John Sevier	3405	2	495	775	0	775		786	0	786	775
TN	John Sevier	3405	CSJS34 (3, 4)					1,863				
TN	John Sevier	3405	3	522	574	0	574		999	0	999	574
TN	John Sevier	3405	4	517	857	0	857		864	0	864	857
TN	John Sevier	3405	OVERDF	0	0	1,938	1,938					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
TN	Johnsonville	3406	CSJO10 (1, 2, 3, 4, 5, 6, 7, 8, 9, 10)				7,311					
TN	Johnsonville	3406	1	315	650	0	650	668	0	668	650	
TN	Johnsonville	3406	10	311	551	0	551	835	0	835	551	
TN	Johnsonville	3406	2	317	737	0	737	744	0	744	737	
TN	Johnsonville	3406	3	310	645	0	645	779	0	779	645	
TN	Johnsonville	3406	4	311	671	0	671	705	0	705	671	
TN	Johnsonville	3406	5	308	688	0	688	707	0	707	688	
TN	Johnsonville	3406	6	314	669	0	669	723	0	723	669	
TN	Johnsonville	3406	7	395	665	0	665	671	0	671	665	
TN	Johnsonville	3406	8	349	689	0	689	806	0	806	689	
TN	Johnsonville	3406	9	338	648	0	648	673	0	673	648	
TN	Johnsonville	3406	JCT1	4	2	0	2	2	0	2	2	
TN	Johnsonville	3406	JCT10	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT11	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT12	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT13	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT14	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT15	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT16	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT17	18	18	0	18	2	16	18	18	
TN	Johnsonville	3406	JCT18	19	19	0	19	1	18	19	19	
TN	Johnsonville	3406	JCT19	19	19	0	19	1	18	19	19	
TN	Johnsonville	3406	JCT2	4	3	0	3	3	0	3	3	
TN	Johnsonville	3406	JCT20	19	19	0	19	1	18	19	19	
TN	Johnsonville	3406	JCT3	4	2	0	2	2	0	2	2	
TN	Johnsonville	3406	JCT4	4	2	0	2	2	0	2	2	
TN	Johnsonville	3406	JCT5	4	2	0	2	2	0	2	2	
TN	Johnsonville	3406	JCT6	4	2	0	2	2	0	2	2	
TN	Johnsonville	3406	JCT7	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT8	4	1	0	1	1	0	1	1	
TN	Johnsonville	3406	JCT9	4	0	0	0	0	0	0	0	
TN	Johnsonville	3406	OVERDF	0	0	2,909	2,909				0	
TN	Kingston	3407	CSKI15 (1, 2, 3, 4, 5)				586					
TN	Kingston	3407	1	374	104	0	104	113	0	113	104	
TN	Kingston	3407	2	381	101	0	101	112	0	112	101	
TN	Kingston	3407	3	342	102	0	102	104	0	104	102	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
TN	Kingston	3407	4	380	105	0	105		112	0	112	105
TN	Kingston	3407	5	519	139	0	139		145	0	145	139
TN	Kingston	3407	CSKI69 (6, 7, 8, 9)					609				
TN	Kingston	3407	6	494	139	0	139		146	0	146	139
TN	Kingston	3407	7	480	145	0	145		151	0	151	145
TN	Kingston	3407	8	490	150	0	150		156	0	156	150
TN	Kingston	3407	9	481	146	0	146		156	0	156	146
TN	Kingston	3407	OVERDF	0	0	270	270					0
TN	Lagoon Creek	7845	LCT1	0	0	0	0	2	2	0	2	0
TN	Lagoon Creek	7845	LCT10	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT11	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT12	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT2	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT3	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT4	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT5	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT6	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT7	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	LCT8	0	0	0	0	2	2	0	2	0
TN	Lagoon Creek	7845	LCT9	0	0	0	0	3	3	0	3	0
TN	Lagoon Creek	7845	OVERDF	0	0	144	144					0
TN	Packaging Corporation of America	50296	017	89	34	0	34	15	15	0	15	15
TN	Tate & Lyle-Loudon	880079	34	139	0	0	0	141	141	0	141	0
TN	Tate & Lyle-Loudon	880079	35	139	0	0	0	155	155	0	155	0
TN	Tate & Lyle-Loudon	880079	OVERDF	0	298	0	298					296
VA	Altavista Power Station	10773	CS0 (1, 2)					261				
VA	Altavista Power Station	10773	1	22	0	0	0		130	0	130	0
VA	Altavista Power Station	10773	2	23	0	0	0		131	0	131	0
VA	Altavista Power Station	10773	OVERDF	0	26	978	1,004					26
VA	Bellemeade Power Station	50966	1	102	0	0	0	28	28	0	28	0
VA	Bellemeade Power Station	50966	2	96	0	0	0	26	26	0	26	0
VA	Bellemeade Power Station	50966	OVERDF	0	31	90	121					31
VA	Birchwood Power Facility	54304	001	340	278	0	278	275	275	0	275	275
VA	Bremo Power Station	3796	3	138	0	0	0	860	860	0	860	0
VA	Bremo Power Station	3796	4	348	0	0	0	681	681	0	681	0
VA	Bremo Power Station	3796	OVERDF	0	631	3,790	4,421					631
VA	Buchanan -- Units 1 and 2	55738	1	112	57	0	57	9	9	46	55	55

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
VA	Buchanan -- Units 1 and 2	55738	2	0	57	0	57	8	8	46	54	54
VA	Buchanan -- Units 1 and 2	55738	OVERDF	0	2	0	2					0
VA	Celanese Acetate LLC	52089	BLR007	154	0	0	0	186	186	0	186	0
VA	Celanese Acetate LLC	52089	BLR008	55	0	0	0	3	3	0	3	0
VA	Celanese Acetate LLC	52089	OVERDF	0	209	12	221					189
VA	Chesapeake Energy Center	3803	1	272	0	0	0	500	500	0	500	0
VA	Chesapeake Energy Center	3803	2	288	0	0	0	504	504	0	504	0
VA	Chesapeake Energy Center	3803	3	323	0	0	0	68	68	0	68	0
VA	Chesapeake Energy Center	3803	4	518	0	0	0	119	119	0	119	0
VA	Chesapeake Energy Center	3803	OVERDF	0	800	1,628	2,428					800
VA	Chesterfield Power Station	3797	**8A	272	0	0	0	170	170	0	170	0
VA	Chesterfield Power Station	3797	3	234	0	0	0	525	525	0	525	0
VA	Chesterfield Power Station	3797	4	364	0	0	0	125	125	0	125	0
VA	Chesterfield Power Station	3797	5	696	0	0	0	224	224	0	224	0
VA	Chesterfield Power Station	3797	6	1,177	0	0	0	337	337	0	337	0
VA	Chesterfield Power Station	3797	7	310	0	0	0	164	164	0	164	0
VA	Chesterfield Power Station	3797	OVERDF	0	1,074	1,961	3,035					1,074
VA	Clinch River	3775	CS012 (1, 2)					1,812				
VA	Clinch River	3775	1	479	883	0	883		883	0	883	883
VA	Clinch River	3775	2	455	0	3,871	3,871		929	0	929	0
VA	Clinch River	3775	3	507	693	886	1,579	905	905	0	905	693
VA	Clinch River	3775	OVERDF	0	25	0	25					0
VA	Clover Power Station	7213	1	1,031	0	0	0	1,887	1,887	0	1,887	0
VA	Clover Power Station	7213	2	1,074	0	0	0	1,953	1,953	0	1,953	0
VA	Clover Power Station	7213	OVERDF	0	3,715	519	4,234					3,715
VA	Cogentrix-Hopewell	10377	CS001 (BLR01A, BLR01B, BLR01C)					382				
VA	Cogentrix-Hopewell	10377	BLR01A	286	0	0	0		127	0	127	0
VA	Cogentrix-Hopewell	10377	BLR01B	0	0	0	0		127	0	127	0
VA	Cogentrix-Hopewell	10377	BLR01C	0	0	0	0		128	0	128	0
VA	Cogentrix-Hopewell	10377	CS002 (BLR02A, BLR02B, BLR02C)					364				
VA	Cogentrix-Hopewell	10377	BLR02A	0	0	0	0		121	0	121	0
VA	Cogentrix-Hopewell	10377	BLR02B	0	0	0	0		121	0	121	0
VA	Cogentrix-Hopewell	10377	BLR02C	0	0	0	0		122	0	122	0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
VA	Cogentrix-Hopewell	10377	OVERDF	0	751	34	785					746
VA	Cogentrix-Portsmouth	10071	CS001 (BLR01A, BLR01B, BLR01C)				300					
VA	Cogentrix-Portsmouth	10071	BLR01A	311	0	0	0	100	0	100		0
VA	Cogentrix-Portsmouth	10071	BLR01B	0	0	0	0	100	0	100		0
VA	Cogentrix-Portsmouth	10071	BLR01C	0	0	0	0	100	0	100		0
VA	Cogentrix-Portsmouth	10071	CS002 (BLR02A, BLR02B, BLR02C)				271					
VA	Cogentrix-Portsmouth	10071	BLR02A	0	0	0	0	90	0	90		0
VA	Cogentrix-Portsmouth	10071	BLR02B	0	0	0	0	90	0	90		0
VA	Cogentrix-Portsmouth	10071	BLR02C	0	0	0	0	91	0	91		0
VA	Cogentrix-Portsmouth	10071	OVERDF	0	576	35	611					571
VA	Commonwealth Chesapeake	55381	CT-001	53	53	0	53	4	4	49	53	53
VA	Commonwealth Chesapeake	55381	CT-002	53	53	0	53	4	4	49	53	53
VA	Commonwealth Chesapeake	55381	CT-003	53	53	0	53	3	3	50	53	53
VA	Commonwealth Chesapeake	55381	CT-004	53	53	0	53	2	2	51	53	53
VA	Commonwealth Chesapeake	55381	CT-005	53	53	0	53	1	1	52	53	53
VA	Commonwealth Chesapeake	55381	CT-006	53	53	0	53	2	2	51	53	53
VA	Commonwealth Chesapeake	55381	CT-007	53	53	0	53	1	1	52	53	53
VA	Commonwealth Chesapeake	55381	OVERDF	0	0	0	0					0
VA	Darbytown Combustion Turbine	7212	1	29	0	0	0	29	29	0	29	0
VA	Darbytown Combustion Turbine	7212	2	28	0	0	0	25	25	0	25	0
VA	Darbytown Combustion Turbine	7212	3	29	0	0	0	21	21	0	21	0
VA	Darbytown Combustion Turbine	7212	4	28	0	0	0	25	25	0	25	0
VA	Darbytown Combustion Turbine	7212	OVERDF	0	92	32	124					92
VA	Doswell Limited Partnership	52019	501	140	38	0	38	38	38	0	38	38
VA	Doswell Limited Partnership	52019	502	154	41	0	41	41	41	0	41	41
VA	Doswell Limited Partnership	52019	601	159	27	0	27	27	27	0	27	27
VA	Doswell Limited Partnership	52019	602	154	22	0	22	22	22	0	22	22
VA	Doswell Limited Partnership	52019	CT1	51	51	0	51	11	11	40	51	51
VA	Doswell Limited Partnership	52019	OVERDF	0	76	66	142					0
VA	Elizabeth River Combustion Turbine Sta	52087	CT-1	151	0	0	0	21	21	0	21	0
VA	Elizabeth River Combustion Turbine Sta	52087	CT-2	0	0	0	0	21	21	0	21	0
VA	Elizabeth River Combustion Turbine Sta	52087	CT-3	0	0	0	0	20	20	0	20	0
VA	Elizabeth River Combustion Turbine Sta	52087	OVERDF	0	55	28	83					55

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
VA	Glen Lyn	3776	51	88	234	0	234	234	234	0	234	234
VA	Glen Lyn	3776	52	104	240	0	240	240	240	0	240	240
VA	Glen Lyn	3776	6	467	791	0	791	791	791	0	791	791
VA	Glen Lyn	3776	OVERDF	0	12	0	12					0
VA	Gordonsville Power Station	54844	1	70	0	0	0	26	26	0	26	0
VA	Gordonsville Power Station	54844	2	65	0	0	0	24	24	0	24	0
VA	Gordonsville Power Station	54844	OVERDF	0	42	32	74					42
VA	GP Big Island, LLC	50479	4	89	0	0	0	95	95	0	95	0
VA	GP Big Island, LLC	50479	6	103	0	0	0	7	7	0	7	0
VA	GP Big Island, LLC	50479	OVERDF	0	105	0	105					102
VA	Gravel Neck Combustion Turbine	7032	3	24	0	0	0	19	19	0	19	0
VA	Gravel Neck Combustion Turbine	7032	4	22	0	0	0	23	23	0	23	0
VA	Gravel Neck Combustion Turbine	7032	5	16	0	0	0	21	21	0	21	0
VA	Gravel Neck Combustion Turbine	7032	6	20	0	0	0	22	22	0	22	0
VA	Gravel Neck Combustion Turbine	7032	OVERDF	0	78	28	106					78
VA	Honeywell Intl, Inc Hopewell Plant	880093	10C	156	206	0	206	154	154	0	154	154
VA	Hopewell Cogeneration Facility	10633	1	69	69	6	75	94	94	0	94	69
VA	Hopewell Cogeneration Facility	10633	2	66	60	0	60	60	60	0	60	60
VA	Hopewell Cogeneration Facility	10633	3	65	65	0	65	81	81	0	81	65
VA	Hopewell Cogeneration Facility	10633	OVERDF	0	41	0	41					37
VA	Hopewell Power Station	10771	CS0 (1, 2)					294				
VA	Hopewell Power Station	10771	1	22	0	0	0		147	0	147	0
VA	Hopewell Power Station	10771	2	22	0	0	0		147	0	147	0
VA	Hopewell Power Station	10771	OVERDF	0	283	44	327					283
VA	International Paper-Franklin Mill	52152	003	306	179	7	186	173	173	0	173	173
VA	International Paper-Franklin Mill	52152	029	262	9	3	12	7	7	0	7	7
VA	International Paper-Franklin Mill	52152	OVERDF	0	0	0	0					0
VA	Ladysmith Combustion Turbine Sta	7838	1	96	0	0	0	13	13	83	96	0
VA	Ladysmith Combustion Turbine Sta	7838	2	96	0	0	0	14	14	82	96	0
VA	Ladysmith Combustion Turbine Sta	7838	OVERDF	0	192	0	192					192
VA	Louisa Generation Facility	7837	EU1	32	32	2	34	4	4	26	30	30
VA	Louisa Generation Facility	7837	EU2	32	32	3	35	5	5	25	30	30
VA	Louisa Generation Facility	7837	EU3	32	32	3	35	4	4	27	31	31
VA	Louisa Generation Facility	7837	EU4	32	32	1	33	3	3	27	30	30
VA	Louisa Generation Facility	7837	EU5	55	55	6	61	10	10	41	51	51
VA	Louisa Generation Facility	7837	OVERDF	0	0	10	10					0
VA	Marsh Run Generation Facility	7836	EU1	60	60	3	63	18	18	47	65	60
VA	Marsh Run Generation Facility	7836	EU2	60	60	2	62	12	12	46	58	58

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
VA	Marsh Run Generation Facility	7836	EU3	60	60	3	63	12	12	46	58	58
VA	Marsh Run Generation Facility	7836	OVERDF	0	0	19	19					0
VA	MeadWestvaco of Virginia, Covington	50900	CS001 (001, 002, 003, 004)					1,203				
VA	MeadWestvaco of Virginia, Covington	50900	001	293	318	0	318		318	0	318	318
VA	MeadWestvaco of Virginia, Covington	50900	002	158	153	0	153		153	0	153	153
VA	MeadWestvaco of Virginia, Covington	50900	003	243	242	0	242		242	0	242	242
VA	MeadWestvaco of Virginia, Covington	50900	004	429	491	0	491		490	0	490	490
VA	MeadWestvaco of Virginia, Covington	50900	005	87	7	0	7	7	7	0	7	7
VA	MeadWestvaco of Virginia, Covington	50900	011	70	4	0	4	3	3	0	3	3
VA	MeadWestvaco of Virginia, Covington	50900	OVERDF	0	15	0	15					0
VA	Mecklenburg Power Station	52007	1	221	0	0	0	276	276	0	276	0
VA	Mecklenburg Power Station	52007	2	0	0	0	0	292	292	0	292	0
VA	Mecklenburg Power Station	52007	OVERDF	0	561	28	589					561
VA	Mirant Potomac River	3788	1	194	0	0	0	326	326	0	326	0
VA	Mirant Potomac River	3788	2	154	0	0	0	296	296	0	296	0
VA	Mirant Potomac River	3788	3	236	0	0	0	122	122	0	122	0
VA	Mirant Potomac River	3788	4	232	0	0	0	136	136	0	136	0
VA	Mirant Potomac River	3788	5	203	0	0	0	242	242	0	242	0
VA	Mirant Potomac River	3788	OVERDF	0	1,139	0	1,139					1,122
VA	Possum Point Power Station	3804	3	202	0	0	0	36	36	0	36	0
VA	Possum Point Power Station	3804	4	472	0	0	0	99	99	0	99	0
VA	Possum Point Power Station	3804	5	371	0	0	0	313	313	0	313	0
VA	Possum Point Power Station	3804	6A	39	0	0	0	23	23	14	37	0
VA	Possum Point Power Station	3804	6B	39	0	0	0	27	27	15	42	0
VA	Possum Point Power Station	3804	OVERDF	0	520	28	548					520
VA	Remington Combustion Turbine Station	7839	1	96	0	0	0	7	7	91	98	0
VA	Remington Combustion Turbine Station	7839	2	96	0	0	0	8	8	90	98	0
VA	Remington Combustion Turbine Station	7839	3	96	0	0	0	6	6	90	96	0
VA	Remington Combustion Turbine Station	7839	4	96	0	0	0	7	7	90	97	0
VA	Remington Combustion Turbine Station	7839	OVERDF	0	385	15	400					385
VA	Smurfit-Stone Container Enterprises, Inc	10017	002	292	292	0	292	277	277	0	277	277
VA	Smurfit-Stone Container Enterprises, Inc	10017	OVERDF	0	0	0	0					0
VA	Southampton Power Station	10774	CS0 (1, 2)					390				
VA	Southampton Power Station	10774	1	25	0	0	0		195	0	195	0
VA	Southampton Power Station	10774	2	33	0	0	0		195	0	195	0
VA	Southampton Power Station	10774	OVERDF	0	383	28	411					383

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
VA	Spruance Genco, LLC	54081	CS001 (BLR01A, BLR01B)					379				
VA	Spruance Genco, LLC	54081	BLR01A	282	0	0	0		190	0	190	0
VA	Spruance Genco, LLC	54081	BLR01B	0	0	0	0		189	0	189	0
VA	Spruance Genco, LLC	54081	CS002 (BLR02A, BLR02B)					358				
VA	Spruance Genco, LLC	54081	BLR02A	208	0	0	0		179	0	179	0
VA	Spruance Genco, LLC	54081	BLR02B	0	0	0	0		179	0	179	0
VA	Spruance Genco, LLC	54081	CS003 (BLR03A, BLR03B)					347				
VA	Spruance Genco, LLC	54081	BLR03A	0	0	0	0		174	0	174	0
VA	Spruance Genco, LLC	54081	BLR03B	0	0	0	0		173	0	173	0
VA	Spruance Genco, LLC	54081	CS004 (BLR04A, BLR04B)					348				
VA	Spruance Genco, LLC	54081	BLR04A	0	0	0	0		174	0	174	0
VA	Spruance Genco, LLC	54081	BLR04B	0	0	0	0		174	0	174	0
VA	Spruance Genco, LLC	54081	OVERDF	0	1,445	86	1,531					1,432
VA	Tasley	3785	TA10	9	2	0	2	1	1	0	1	1
VA	Tenaska Virginia Generating Station	55439	CTGDB1	38	38	0	38	19	19	22	41	38
VA	Tenaska Virginia Generating Station	55439	CTGDB2	38	38	0	38	18	18	21	39	38
VA	Tenaska Virginia Generating Station	55439	CTGDB3	38	38	0	38	16	16	22	38	38
VA	Tenaska Virginia Generating Station	55439	OVERDF	0	4	0	4					4
VA	Wolf Hills Energy	55285	WH01	19	19	2	21	4	4	11	15	15
VA	Wolf Hills Energy	55285	WH02	19	19	2	21	5	5	11	16	16
VA	Wolf Hills Energy	55285	WH03	19	19	1	20	4	4	12	16	16
VA	Wolf Hills Energy	55285	WH04	19	19	1	20	5	5	11	16	16
VA	Wolf Hills Energy	55285	WH05	19	19	2	21	4	4	12	16	16
VA	Wolf Hills Energy	55285	WH06	19	19	2	21	4	4	12	16	16
VA	Wolf Hills Energy	55285	WH07	19	19	1	20	4	4	11	15	15
VA	Wolf Hills Energy	55285	WH08	19	19	1	20	5	5	11	16	16
VA	Wolf Hills Energy	55285	WH09	19	19	2	21	3	3	12	15	15
VA	Wolf Hills Energy	55285	WH10	19	19	2	21	4	4	12	16	16
VA	Wolf Hills Energy	55285	OVERDF	0	0	0	0					0
VA	Yorktown Power Station	3809	CS0 (1, 2)					1,186				
VA	Yorktown Power Station	3809	1	338	0	0	0		593	0	593	0
VA	Yorktown Power Station	3809	2	366	0	0	0		593	0	593	0



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NOx EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
VA	Yorktown Power Station	3809	3	1,032	0	0	0	432	432	0	432	0
VA	Yorktown Power Station	3809	OVERDF	0	1,611	29	1,640					1,611
WV	Albright Power Station	3942	1	84	376	0	376	373	373	0	373	373
WV	Albright Power Station	3942	2	83	373	0	373	370	370	0	370	370
WV	Albright Power Station	3942	3	245	346	0	346	343	343	0	343	343
WV	Albright Power Station	3942	OVERDF	0	5	0	5					0
WV	Bayer Cropscience Institute Plant	880053	CS1 (070, 080, 090)					293				
WV	Bayer Cropscience Institute Plant	880053	070	115	115	69	184		98	0	98	98
WV	Bayer Cropscience Institute Plant	880053	080	104	104	45	149		98	0	98	98
WV	Bayer Cropscience Institute Plant	880053	090	107	107	63	170		97	0	97	97
WV	Bayer Cropscience Institute Plant	880053	OVERDF	0	0	0	0					0
WV	Big Sandy Peaker Plant	55284	GS01	20	20	2	22	3	3	14	17	17
WV	Big Sandy Peaker Plant	55284	GS02	20	20	2	22	4	4	15	19	19
WV	Big Sandy Peaker Plant	55284	GS03	20	20	2	22	3	3	15	18	18
WV	Big Sandy Peaker Plant	55284	GS04	20	20	2	22	4	4	15	19	19
WV	Big Sandy Peaker Plant	55284	GS05	20	20	2	22	4	4	14	18	18
WV	Big Sandy Peaker Plant	55284	GS06	20	20	2	22	4	4	14	18	18
WV	Big Sandy Peaker Plant	55284	GS07	20	20	2	22	0	0	20	20	20
WV	Big Sandy Peaker Plant	55284	GS08	20	20	2	22	4	4	15	19	19
WV	Big Sandy Peaker Plant	55284	GS09	20	20	1	21	5	5	14	19	19
WV	Big Sandy Peaker Plant	55284	GS10	20	20	1	21	5	5	14	19	19
WV	Big Sandy Peaker Plant	55284	GS11	20	20	2	22	3	3	17	20	20
WV	Big Sandy Peaker Plant	55284	GS12	20	20	2	22	5	5	14	19	19
WV	Big Sandy Peaker Plant	55284	OVERDF	0	0	0	0					0
WV	Ceredo Generating Station	55276	01	34	0	0	0	2	2	32	34	0
WV	Ceredo Generating Station	55276	02	34	0	0	0	2	2	32	34	0
WV	Ceredo Generating Station	55276	03	34	0	0	0	2	2	32	34	0
WV	Ceredo Generating Station	55276	04	34	0	0	0	2	2	32	34	0
WV	Ceredo Generating Station	55276	05	34	0	0	0	2	2	32	34	0
WV	Ceredo Generating Station	55276	06	34	0	0	0	2	2	32	34	0
WV	Ceredo Generating Station	55276	OVERDF	0	206	0	206					204
WV	Dupont Belle Plant	10788	612	55	55	106	161	13	13	0	13	13
WV	Fort Martin Power Station	3943	1	971	2,076	0	2,076	2,073	2,073	0	2,073	2,073
WV	Fort Martin Power Station	3943	2	957	1,715	0	1,715	1,712	1,712	0	1,712	1,712
WV	Fort Martin Power Station	3943	OVERDF	0	8	0	8					0
WV	Grant Town Power Plant	10151	CS1 (1A, 1B)					264				
WV	Grant Town Power Plant	10151	1A	113	153	0	153		153	0	153	153

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
WV	Grant Town Power Plant	10151	1B	113	113	0	113		111	0	111	111
WV	Grant Town Power Plant	10151	OVERDF	0	0	0	0					0
WV	Harrison Power Station	3944	1	1,340	623	0	623	621	621	0	621	621
WV	Harrison Power Station	3944	2	1,383	659	0	659	657	657	0	657	657
WV	Harrison Power Station	3944	3	1,452	722	0	722	720	720	0	720	720
WV	Harrison Power Station	3944	OVERDF	0	5	0	5					0
WV	John E Amos	3935	CS012 (1, 2)					1,004				
WV	John E Amos	3935	1	1,201	467	0	467		467	0	467	467
WV	John E Amos	3935	2	1,268	537	0	537		537	0	537	537
WV	John E Amos	3935	3	1,898	1,916	0	1,916	1,854	1,854	0	1,854	1,854
WV	John E Amos	3935	AUX1	0	0	0	0	0	0	0	0	0
WV	John E Amos	3935	AUX3	0	0	0	0	0	0	0	0	0
WV	John E Amos	3935	OVERDF	0	80	0	80					0
WV	Kammer	3947	CS013 (1, 2, 3)					3,314				
WV	Kammer	3947	1	383	1,032	0	1,032		1,032	0	1,032	1,032
WV	Kammer	3947	2	400	1,130	0	1,130		1,130	0	1,130	1,130
WV	Kammer	3947	3	428	1,152	0	1,152		1,152	0	1,152	1,152
WV	Kammer	3947	OVERDF	0	58	0	58					0
WV	Kanawha River	3936	CS012 (1, 2)					1,751				
WV	Kanawha River	3936	1	322	877	0	877		873	0	873	873
WV	Kanawha River	3936	2	310	883	0	883		878	0	878	878
WV	Kanawha River	3936	OVERDF	0	14	0	14					0
WV	Mitchell (WV)	3948	1	1,233	1,095	0	1,095	1,095	1,095	0	1,095	1,095
WV	Mitchell (WV)	3948	2	1,141	811	0	811	811	811	0	811	811
WV	Mitchell (WV)	3948	AUX1	0	4	0	4	4	4	0	4	4
WV	Mitchell (WV)	3948	OVERDF	0	158	0	158					0
WV	Mittal Steel USA - Weirton Inc	54344	089	3	0	0	0	28	28	0	28	0
WV	Mittal Steel USA - Weirton Inc	54344	090	111	0	3	3	78	78	0	78	0
WV	Mittal Steel USA - Weirton Inc	54344	091	256	0	8	8	43	43	0	43	0
WV	Mittal Steel USA - Weirton Inc	54344	CS408 (092, 093)					0				
WV	Mittal Steel USA - Weirton Inc	54344	092	211	0	7	7		0	0	0	0
WV	Mittal Steel USA - Weirton Inc	54344	093	204	0	6	6		0	0	0	0
WV	Mittal Steel USA - Weirton Inc	54344	OVERDF	0	154	0	154					142
WV	Morgantown Energy Facility	10743	CS1 (CFB1, CFB2)					300				
WV	Morgantown Energy Facility	10743	CFB1	77	0	0	0		150	0	150	0
WV	Morgantown Energy Facility	10743	CFB2	77	0	0	0		150	0	150	0
WV	Morgantown Energy Facility	10743	OVERDF	0	303	35	338					300

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
WV	Mount Storm Power Station	3954	CS0 (1, 2)				815					
WV	Mount Storm Power Station	3954	1	1,036	0	0	0	408	0	408	0	0
WV	Mount Storm Power Station	3954	2	1,079	0	0	0	407	0	407	0	0
WV	Mount Storm Power Station	3954	3	1,184	0	0	0	748	748	0	748	0
WV	Mount Storm Power Station	3954	OVERDF	0	1,517	195	1,712					1,517
WV	Mountaineer (1301)	6264	1	1,972	865	0	865	865	865	0	865	865
WV	Mountaineer (1301)	6264	AUX1	0	1	0	1	1	1	0	1	1
WV	Mountaineer (1301)	6264	AUX2	0	1	0	1	1	1	0	1	1
WV	Mountaineer (1301)	6264	OVERDF	0	43	0	43					0
WV	North Branch Power Station	7537	CS1 (1A, 1B)				649					
WV	North Branch Power Station	7537	1A	99	0	0	0	324	0	324	0	0
WV	North Branch Power Station	7537	1B	97	0	0	0	325	0	325	0	0
WV	North Branch Power Station	7537	OVERDF	0	641	38	679					641
WV	Phil Sporn	3938	CS014 (11, 21, 31, 41)				2,537					
WV	Phil Sporn	3938	11	229	625	0	625	625	0	625	0	625
WV	Phil Sporn	3938	21	229	526	0	526	516	0	516	0	516
WV	Phil Sporn	3938	31	246	750	0	750	750	0	750	0	750
WV	Phil Sporn	3938	41	239	658	0	658	646	0	646	0	646
WV	Phil Sporn	3938	51	678	36	8,246	8,282	1,980	1,980	0	1,980	1
WV	Phil Sporn	3938	OVERDF	0	14	0	14					0
WV	Pleasants Energy, LLC	55349	1	119	119	6	125	1	1	118	119	119
WV	Pleasants Energy, LLC	55349	2	119	119	1	120	2	2	118	120	119
WV	Pleasants Energy, LLC	55349	OVERDF	0	0	1	1					0
WV	Pleasants Power Station	6004	1	1,241	538	0	538	536	536	0	536	536
WV	Pleasants Power Station	6004	2	1,160	369	0	369	367	367	0	367	367
WV	Pleasants Power Station	6004	OVERDF	0	5	0	5					0
WV	PPG Industries, Inc - Natrium Plant	50491	001	198	198	6	204	248	248	0	248	198
WV	PPG Industries, Inc - Natrium Plant	50491	002	464	160	0	160	160	160	0	160	160
WV	PPG Industries, Inc - Natrium Plant	50491	003	424	327	46	373	327	327	0	327	327
WV	PPG Industries, Inc - Natrium Plant	50491	OVERDF	0	50	27	77					46
WV	Rivesville Power Station	3945	7	40	28	0	28	26	26	0	26	26
WV	Rivesville Power Station	3945	8	120	355	0	355	352	352	0	352	352
WV	Rivesville Power Station	3945	OVERDF	0	5	0	5					0
<b>WV</b>	<b>UCC South Charleston Plant<sup>11</sup></b>	<b>50151</b>	<b>B25</b>	<b>93</b>	<b>135</b>	<b>6</b>	<b>141</b>	<b>140</b>	<b>140</b>	<b>0</b>	<b>140</b>	<b>135</b>
WV	UCC South Charleston Plant	50151	B26	45	3	0	3	3	3	0	3	3
WV	UCC South Charleston Plant	50151	B27	109	109	24	133	17	17	84	101	101
WV	UCC South Charleston Plant	50151	OVERDF	0	0	0	0					0

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

STATE	PLANT NAME	ORIS	STACK/UNIT ID*	YEAR 2007 ALLOWANCES ALLOCATED	ALLOWANCES HELD IN ACCOUNTS ON 11/30/2007			2007 NO <sub>x</sub> EMISSIONS (TONS)	DEDUCTIONS REQUIRED BY CATEGORY (TONS)			CURRENT YEAR (2007)
					CURRENT YEAR (2007)	BANKED (YEARS 2003-2006)	TOTAL		EMISSIONS	NEW UNIT TAKEBACK	TOTAL	
WV	Willow Island Power Station	3946	1	109	176	0	176	173	173	0	173	173
WV	Willow Island Power Station	3946	2	279	883	0	883	879	879	0	879	879
WV	Willow Island Power Station	3946	OVERDF	0	5	0	5					0
WV	WV Alloys, Inc.	50012	BLR4	0	367	16	383	366	366	0	366	366
<sup>1</sup> Alfred L. Pierce Generating Station unit AP-1 had 15 year 2008 allowances deducted as a penalty for being 5 allowances short of covering its emissions.												
<sup>2</sup> Gibson Station unit 2 had 537 year 2008 allowances deducted for being 179 allowances short of covering its emissions.												
<sup>3</sup> Domtar Paper Company LLC - Plymouth unit 9 had 12 year 2008 allowances deducted as a penalty for being 4 allowances short of covering its emissions.												
<sup>4</sup> Bayonne Plant Holding, LLC units 2001 and 4001 had 9 year 2008 allowances deducted for being 3 allowance short of covering their emissions.												
<sup>5</sup> Charles Poletti unit 1 had 3 year 2008 allowances deducted as a penalty for being 1 allowance short of covering its emissions.												
<sup>6</sup> Troy Energy LLC unit 4 had 3 year 2008 allowances deducted as a penalty for being 1 allowance short of covering its emissions.												
<sup>7</sup> Domtar Paper Company, LLC unit 41 had 3 year 2008 allowances deducted for being 1 allowance short of covering its emissions.												
<sup>8</sup> Fairless Energy, LLC unit 2B had 3 year 2008 allowances deducted for being 1 allowance short of covering its emissions.												
<sup>9</sup> Procter and Gamble Paper Products unit 328001 had 21 year 2008 allowances deducted as a penalty for being 7 allowances short of covering its emissions.												
<sup>10</sup> US Steel (Edgar Thompson) unit ETBLR1 had 9 year 2008 allowances deducted as a penalty for being 3 allowances short of covering its emissions.												
<sup>11</sup> UCC South Charleston Plant unit B25 had 3 year 2008 allowances deducted 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).												

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
1	0	1	4	20	
0	0	0	6	17	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
25	76	101	498	3	
0	0	0	0	121	
17	0	17	17	156	
0	0	0	0	0	
0	0	0	18	0	
0	0	0	18	0	
0	0	0	20	0	
0	0	0	20	0	
0	0	0	0	25	
		0			
0	0	0	1,130	0	
0	0	0	572	0	
0	0	0	443	0	
0	0	0	1,037	0	
0	0	0	257	0	
0	0	0	0	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
1,010	528	1,538	1,538	2,671	
6	21	27	29	1	
6	12	18	18	8	
7	22	29	31	2	
0	0	0	0	0	
0	0	0	3	49	
0	0	0	3	48	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	3	49	
0	0	0	3	50	
0	0	0	0	0	
0	0	0	26	15	
0	0	0	25	14	
0	0	0	25	15	
0	0	0	21	18	
0	0	0	0	38	
		0			
0	0	0	1,291	1	
0	0	0	1,174	3	
		0			
0	0	0	1,401	0	
0	0	0	1,130	2	
0	0	0	1,020	150	
0	0	0	0	727	
0	0	0	457	0	
0	0	0	357	0	
0	0	0	0	271	
0	0	0	1,062	0	
		0			
0	0	0	573	0	
0	0	0	529	0	
0	0	0	971	0	
0	0	0	817	0	
0	0	0	0	777	
0	0	0	1,127	7	
0	0	0	1,513	4	
0	0	0	11	34	
0	0	0	20	30	
0	0	0	17	31	
0	0	0	14	31	
0	0	0	10	36	
0	0	0	13	34	
0	0	0	11	33	
0	0	0	9	38	
0	0	0	9	38	
0	0	0	0	822	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	11	8	
0	0	0	5	4	
0	0	0	0	0	
0	0	0	124	2	
0	0	0	408	0	
0	0	0	0	30	
0	0	0	7	6	
0	0	0	31	5	
0	0	0	0	0	
0	0	0	904	21	
0	0	0	861	152	
0	0	0	873	602	
0	0	0	802	176	
0	0	0	0	1,869	
0	1	1	7	1	
0	1	1	25	4	
0	0	0	0	0	
6	20	26	30	1	
4	14	18	29	2	
7	21	28	37	1	
0	0	0	0	0	
0	0	0	21	23	
0	0	0	20	23	
0	0	0	21	21	
0	0	0	19	15	
0	0	0	0	14	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	287	32	
0	0	0	8	0	
0	0	0	8	0	
0	0	0	8	0	
13	0	13	13	120	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	14	1	
0	0	0	10	0	
0	0	0	9	2	
0	0	0	0	0	
0	0	0	0	1	
0	0	0	5	1	
0	0	0	21	0	
0	0	0	25	1	
0	0	0	0	0	
		0			
0	0	0	699	0	
0	0	0	707	0	
0	0	0	605	0	
0	0	0	268	0	
0	0	0	602	0	
0	0	0	271	0	
0	0	0	376	0	
0	0	0	311	0	
794	1,046	1,840	1,840	1,468	
		0			
0	0	0	115	3	
0	0	0	108	0	
0	0	0	0	0	
<b>0</b>	<b>0</b>	<b>0</b>	<b>4</b>	<b>0</b>	
0	0	0	107	49	
0	0	0	2	1	
0	1	1	44	2	
0	0	0	42	2	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	33	0	
35	54	89	925	56	
0	2	2	2	0	
0	0	0	0	15	
4	0	4	10	32	
0	0	0	52	113	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	8	37	
0	0	0	0	0	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	1	2	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	6	10	
0	0	0	7	1	
0	0	0	11	2	
0	0	0	11	3	
0	0	0	11	3	
0	0	0	0	18	
0	0	0	0	0	
0	0	0	55	242	
0	0	0	121	332	
0	0	0	17	188	
23	0	23	23	187	
0	0	0	16	0	
0	0	0	17	4	
4	0	4	6	13	
0	0	0	7	108	
0	0	0	20	243	
0	0	0	0	203	
0	0	0	171	256	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	138	226	
0	0	0	1	2	
6	1	7	20	38	
0	0	0	12	28	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	10	
5	0	5	8	21	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	4	2	
0	0	0	4	2	
0	0	0	6	1	
0	0	0	6	1	
0	0	0	3	0	
1	2	3	4	1	
0	0	0	0	3	
0	0	0	5	1	
0	0	0	1	34	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	2	
0	0	0	1	0	
0	0	0	1	1	
0	0	0	1	0	
0	0	0	0	0	
0	0	0	6	246	
0	0	0	46	380	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	24	36	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	0	0	
0	0	0	1	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
99	315	414	414	0	
45	143	188	188	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	677	712	
0	0	0	0	1	
0	0	0	196	4	
0	0	0	654	8	
0	0	0	187	4	
0	0	0	0	0	
0	0	0	37	2	
0	0	0	43	2	
0	0	0	50	2	
0	0	0	10	1	
0	0	0	8	1	
0	0	0	14	1	
0	0	0	0	0	
0	0	0	187	0	
0	0	0	1	13	
0	0	0	193	0	
0	0	0	368	0	
0	0	0	727	0	
62	0	62	1,458	283	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	26	0	
0	0	0	0	0	
3	8	11	220	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	14	36	
0	1	1	2	0	
2	2	4	4	5	
0	0	0	2	1	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	10	
0	0	0	0	11	
0	0	0	0	7	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	988	0	
0	0	0	7	3	
0	0	0	242	28	
0	0	0	525	69	
0	0	0	546	8	
498	756	1,254	1,301	823	
0	0	0	0	2,128	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	24	0	
0	0	0	0	0	
		0			
457	0	457	457	1,553	
750	0	750	750	2,483	
0	0	0	0	25	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	22	7	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	1	
0	0	0	0	2	
0	0	0	1	0	
0	0	0	223	3	
0	0	0	0	29	
0	0	0	348	0	
0	0	0	454	0	
0	0	0	184	28	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	14	
		0			
0	0	0	132	6	
0	0	0	132	11	
0	0	0	178	4	
0	0	0	0	50	
10	0	10	26	35	
		0			
0	0	0	475	0	
0	0	0	1,062	0	
0	0	0	488	0	
0	0	0	0	59	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	15	0	
0	0	0	3	0	
0	0	0	0	10	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	49	171	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	513	10	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	46	20	
0	0	0	0	23	
0	0	0	493	0	
0	0	0	4	0	
0	0	0	6	0	
0	0	0	4	0	
0	0	0	2	0	
0	0	0	6	0	
0	0	0	4	0	
0	0	0	0	0	
0	0	0	4	0	
0	0	0	77	16	
0	0	0	11	2	
0	0	0	8	3	
0	0	0	5	0	
0	0	0	2	0	
0	0	0	0	10	
0	0	0	0	25	
0	0	0	0	25	
0	0	0	0	25	
0	0	0	0	25	
0	0	0	0	25	
0	0	0	0	25	
0	0	0	0	25	
0	0	0	0	26	
0	0	0	50	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	60	0	
0	0	0	0	10	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
17	54	71	71	0	
0	0	0	164	335	
			0		
19	62	81	81	0	
0	0	0	0	0	
0	0	0	419	479	
0	0	0	0	0	
0	0	0	0	0	
11	0	11	31	40	
0	0	0	213	0	
0	0	0	265	0	
0	0	0	0	35	
0	0	0	3	16	
		0			
0	0	0	410	0	
0	0	0	409	1	
		0			
0	0	0	262	0	
0	0	0	262	0	
0	0	0	0	36	
0	0	0	1,371	37	
		0			
0	0	0	397	17	
0	0	0	397	6	
		0			
0	0	0	383	13	
0	0	0	383	6	





APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	115	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	68	120	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
394	0	394	583	1,293	
0	0	0	3	15	
0	0	0	5	11	
0	0	0	5	10	
0	0	0	0	10	
0	0	0	0	7	
0	0	0	0	36	
		0			
75	0	75	98	248	
109	0	109	126	356	
131	0	131	146	425	
102	0	102	132	324	
83	0	83	709	266	
0	0	0	2	0	
0	0	0	0	60	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	39	28	
0	0	0	0	82	
0	0	0	0	94	
0	0	0	0	0	
0	0	0	895	0	
0	0	0	732	0	
0	0	0	0	50	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	8	5	
0	0	0	7	2	
0	0	0	15	35	
0	0	0	14	36	
0	0	0	15	35	
0	0	0	14	36	
0	0	0	1	9	
0	0	0	1	9	
0	0	0	0	10	
0	0	0	1	9	
0	0	0	0	139	
		0			
0	0	0	695	0	
0	0	0	695	0	
0	0	0	692	0	
0	0	0	692	0	
0	0	0	5,056	213	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	36	2	
0	0	0	2	8	
0	0	0	2	8	
0	0	0	1	9	
0	0	0	2	8	
0	0	0	0	36	
0	0	0	5	0	
0	0	0	6	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	5	0	
0	0	0	6	0	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	4	0	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	0	10	
0	0	0	4	0	
0	0	0	4	0	
0	0	0	4	0	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	5	0	
0	0	0	4	0	
0	0	0	4	0	
0	0	0	0	8	
3	9	12	14	0	
2	7	9	13	0	
1	0	1	1	2	
1	4	5	7	0	
0	0	0	0	13	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
4	0	4	12	42	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	140	11	
1	5	6	6	0	
1	3	4	4	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
1	4	5	5	0	
0	0	0	0	0	
0	0	0	11	79	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	75	6	
0	0	0	16	9	
0	0	0	19	9	
0	0	0	3	3	
0	0	0	0	3	
0	0	0	5	13	
0	0	0	4	8	
0	0	0	0	129	
		0			
14	46	60	60	0	
0	0	0	0	0	
0	0	0	450	271	
0	0	0	192	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	400	0	
0	0	0	568	0	
0	0	0	972	58	
0	0	0	330	0	
0	0	0	318	0	
0	0	0	429	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	738	0	
0	0	0	1,153	79	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
53	169	222	222	0	
0	0	0	0	0	
0	0	0	809	765	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	106	159	
0	2	2	11	3	
1	2	3	11	4	
3	9	12	15	2	
0	0	0	0	0	
0	0	0	410	109	
0	0	0	395	120	
0	0	0	5	29	
0	0	0	17	0	
0	0	0	0	0	
		0			
0	0	0	811	0	
0	0	0	831	26	
0	0	0	824	0	
0	0	0	458	0	
0	0	0	26	9	
0	0	0	1	38	
0	0	0	1	33	
0	0	0	51	0	
0	0	0	0	0	
0	0	0	0	13	
		0			
730	0	730	1,483	2,334	
680	0	680	1,483	2,172	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
		0			
0	0	0	23	43	
0	0	0	22	0	
0	0	0	23	0	
0	0	0	114	238	
0	0	0	86	240	
0	0	0	76	277	
0	0	0	61	303	
0	0	0	27	334	
2	0	2	2	218	
0	0	0	3	28	
0	0	0	15	31	
0	0	0	0	0	
0	0	0	23	7	
		0			
0	0	0	91	9	
0	0	0	23	7	
0	0	0	9	6	
		0			
42	116	158	207	24	
0	0	0	80	22	
0	0	0	0	0	
0	0	0	1,898	38	
0	0	0	1,885	37	
0	0	0	2	8	
0	0	0	0	0	
		0			
57	0	57	419	228	
139	0	139	419	501	
146	0	146	420	533	
		0			
96	0	96	927	578	
111	0	111	927	636	
90	0	90	927	408	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	3
		0			
0	0	0	0	0	0
		0			
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	1	0
0	0	0	124		2
0	0	0	84		2
0	0	0	131		3
0	0	0	0		0
		0			
0	0	0	1,034		126
0	0	0	0		22
0	0	0	0		0
29	0	29	940		105
17	0	17	872		76
0	0	0	0		0
0	0	0	1		5
0	0	0	2		2
0	0	0	3		1
0	0	0	2		3
0	0	0	0		0
0	0	0	348		0
<b>0</b>	<b>0</b>	<b>0</b>	<b>832</b>		<b>0</b>
0	0	0	935		0
0	0	0	778		0
0	0	0	470		0
0	0	0	43		0
0	0	0	1		0
0	0	0	416		0
0	0	0	275		1
0	0	0	346		1

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1	1	
0	0	0	7	0	
0	0	0	7	0	
0	0	0	5	0	
0	0	0	0	11	
0	0	0	5	0	
0	0	0	6	0	
0	0	0	5	0	
0	0	0	0	6	
0	0	0	25	0	
0	0	0	25	0	
0	0	0	25	0	
0	0	0	25	0	
0	0	0	25	0	
0	0	0	25	0	
0	0	0	0	0	
0	0	0	1	0	
0	0	0	1	0	
		0			
0	0	0	230	1	
0	0	0	417	0	
		0			
0	0	0	214	0	
0	0	0	342	0	
0	0	0	0	4	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	136	10	
71	0	71	791	250	
34	0	34	834	119	
0	0	0	0	0	
620	0	620	660	1,987	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	171	76	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	24	18	
0	0	0	225	58	
0	0	0	33	0	
0	0	0	36	0	
0	0	0	37	1	
0	0	0	0	4	
0	0	0	947	0	
0	0	0	687	0	
0	0	0	843	0	
0	0	0	2,151	0	
0	0	0	0	11	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	6	4	
3	0	3	13	16	
7	22	29	85	0	
0	0	0	97	0	
0	0	0	1	0	
0	1	1	26	0	
0	0	0	3	23	
		0			

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	541	0	
0	0	0	551	5	
		0			
0	0	0	558	11	
0	0	0	642	12	
0	0	0	9	18	
408	0	408	1,028	1,321	
666	0	666	1,786	2,130	
3	0	3	4	21	
6	0	6	7	34	
766	0	766	1,009	2,447	
971	0	971	1,017	3,098	
0	0	0	0	0	
0	0	0	1	33	
0	0	0	1	33	
0	0	0	0	0	
0	0	0	3	0	
0	0	0	4	0	
		0			
0	0	0	3,898	0	
1,004	0	1,004	2,925	3,180	
0	0	0	0	183	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	2,765	1	
0	0	0	60	0	
0	0	0	60	0	
0	0	0	0	0	
		0			
0	0	0	615	0	
0	0	0	639	0	
0	0	0	935	0	
0	0	0	1,667	0	
0	0	0	0	76	
0	0	0	21	3	
0	0	0	21	0	
0	0	0	17	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	8	1	
0	0	0	15	4	
0	0	0	10	1	
0	0	0	19	1	
0	0	0	10	0	
0	0	0	0	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	3	0	
0	0	0	2	1	
0	0	0	2	0	
0	0	0	1	8	
0	0	0	156	3	
		0			
0	0	0	432	8	
0	0	0	322	6	
0	0	0	435	7	
0	0	0	358	8	
0	0	0	1,409	30	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	13	0	
		0			
0	0	0	81	3	
0	0	0	271	10	
0	0	0	0	0	
0	0	0	16	4	
0	0	0	15	5	
0	0	0	0	0	
0	0	0	3	5	
0	0	0	4	6	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	2	6	
0	0	0	3	5	
0	0	0	0	0	
0	0	0	2	0	
		0			
344	0	344	495	1,093	
0	0	0	1,380	0	
0	0	0	0	153	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	0	33	
0	0	0	0	37	
0	0	0	0	33	
0	0	0	36	71	
0	0	0	0	0	
0	0	0	884	0	
0	0	0	861	0	
0	0	0	755	0	
142	0	142	142	859	
6	4	10	36	17	
		0			
0	0	0	10	0	
0	0	0	10	0	
0	0	0	10	0	
0	0	0	1,997	78	
0	0	0	539	56	
0	0	0	523	0	
0	0	0	4	0	
0	0	0	3	0	
		0			
0	0	0	657	0	
0	0	0	1,561	0	
0	0	0	7	0	
0	0	0	12	0	
0	0	0	5	0	
0	0	0	10	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	6	0	
418	0	418	418	1,443	
0	0	0	828	11	
0	0	0	482	0	
0	0	0	973	0	
5	0	5	5	20	
		0			
0	0	0	536	0	
0	0	0	1,495	0	
0	0	0	343	0	
0	0	0	201	0	
384	0	384	384	1,335	
0	0	0	367	0	
0	0	0	452	0	
123	0	123	123	424	
0	0	0	522	0	
0	0	0	712	1	
0	0	0	366	0	
0	0	0	0	64	
0	0	0	17	63	
0	0	0	158	6	
0	0	0	188	6	
0	0	0	0	50	
		0			
0	0	0	880	1	
0	0	0	881	0	
0	0	0	0	35	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
16	0	16	16	51	
0	0	0	1,223	0	
0	0	0	1,331	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	319	0	
0	0	0	259	0	
179	0	179	179	1,093	
0	0	0	19	6	
0	0	0	1,085	0	
0	0	0	1,159	0	
0	0	0	1,584	0	
34	0	34	34	109	
0	0	0	942	3	
0	0	0	885	5	
0	0	0	0	42	
0	0	0	2	1	
0	0	0	3	1	
0	0	0	3	1	
0	0	0	4	0	
0	0	0	3	0	
0	0	0	0	30	
0	0	0	282	8	
0	0	0	0	0	
0	0	0	0	32	
		0			
0	0	0	838	0	
		0			
0	0	0	335	0	
0	0	0	468	0	
0	0	0	840	0	
0	0	0	812	0	
0	0	0	817	0	
0	0	0	732	0	
0	0	0	870	0	
0	0	0	889	0	
0	0	0	665	0	
1,057	100	1,157	1,157	3,246	
0	0	0	26	0	
0	0	0	17	1	
0	0	0	6	1	
0	0	0	8	8	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	6	0	
0	0	0	9	0	
0	0	0	3	3	
0	0	0	0	15	
0	0	0	372	0	
0	0	0	15	0	
0	0	0	10	0	
0	0	0	9	0	
0	0	0	9	0	
0	0	0	12	0	
0	0	0	12	0	
27	0	27	27	235	
64	0	64	489	220	
0	0	0	2	1	
0	0	0	2	0	
0	0	0	0	1	
		0			
0	0	0	207	0	
0	0	0	207	0	
		0			
0	0	0	386	0	
0	0	0	385	1	
0	0	0	0	25	
1	3	4	4	0	
0	0	0	0	0	
0	0	0	24	13	
1	5	6	6	0	
0	0	0	0	0	
0	0	0	27	20	
		0			
0	0	0	0	0	
0	0	0	0	0	
24	30	54	155	46	
0	0	0	21	323	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	5	19	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1,177	587	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	376	23	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	14	287	
0	0	0	11	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1	99	
0	0	0	8	31	
1	0	1	1	8	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	43	7	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	2	8	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	14	126	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	24	13	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	74	41	
0	0	0	3	40	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	38	6	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	9	9	
1	3	4	33	5	
15	30	45	45	41	
0	0	0	10	31	
0	0	0	0	0	
0	0	0	147	183	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	90	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	238	52	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	2	7	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	4	1	
0	0	0	8	254	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	743	24	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	223	25	
1	0	1	1	4	
0	0	0	0	0	
0	0	0	1	10	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	97	282	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	5	3	
4	0	4	4	15	
8	4	12	12	20	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	6	73	
2	0	2	2	9	
0	0	0	176	26	
0	0	0	0	0	
0	0	0	0	0	
1,143	0	1,143	1,394	3,678	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	2,000	20	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1,337	12	
		0			

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	603	0	
0	0	0	374	0	
2	8	10	10	0	
0	0	0	0	4	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	4,381	69	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	2,106	29	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	3,277	44	
0	0	0	12	152	
0	0	0	20	190	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	43	5	
0	0	0	387	2	
0	0	0	176	2	
0	0	0	0	5	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	82	2	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	20	0	
0	0	0	33	0	
0	0	0	12	2	
0	0	0	0	0	
0	0	0	82	1	
0	0	0	2	8	
0	0	0	3	11	
0	0	0	3	30	
0	0	0	0	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1,002	0	
0	0	0	446	0	
0	0	0	0	37	
0	0	0	2,016	0	
43	0	43	1,791	138	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	3	0	
0	0	0	0	0	
0	0	0	18	0	
0	0	0	20	0	
0	0	0	20	0	
0	0	0	13	0	
0	0	0	0	0	
0	0	0	599	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	294	0	
		0			
0	0	0	162	17	
0	0	0	118	0	
0	0	0	10	1	
0	0	0	6	6	
0	0	0	0	38	
0	0	0	10	34	
0	0	0	19	29	
0	0	0	11	32	
0	0	0	35	62	
0	0	0	47	66	
0	0	0	17	6	
0	0	0	0	179	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	0	0	
0	0	0	3	14	
0	0	0	4	12	
0	0	0	3	10	
0	0	0	3	11	
0	0	0	0	0	
0	0	0	26	0	
0	0	0	150	213	
0	0	0	127	210	
0	0	0	103	215	
62	0	62	225	556	
0	0	0	158	419	
0	0	0	249	421	
0	0	0	0	0	
3	0	3	241	210	
150	0	150	574	1,355	
0	0	0	54	65	
0	0	0	187	0	
0	0	0	4	0	
0	0	0	4	0	
0	0	0	5	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	5	0	
0	0	0	217	1	
		0			
0	0	0	803	0	
173	0	173	657	546	
0	0	0	0	38	
		0			
0	0	0	752	0	
0	0	0	1,426	0	
0	0	0	1,757	71	
0	0	0	0	58	
125	0	125	465	396	
128	0	128	439	405	
37	0	37	514	117	
0	0	0	0	38	
0	0	0	15	6	
0	0	0	17	5	
0	0	0	16	5	
0	0	0	16	7	
0	0	0	16	6	
0	0	0	16	8	
0	0	0	16	7	
0	0	0	0	98	
0	0	0	128	27	
0	0	0	1	5	
		0			
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1,069	32	
0	0	0	14	55	
0	0	0	36	23	
0	0	0	7	171	
0	0	0	1	88	
0	0	0	0	0	
		0			
413	0	413	3,197	1,309	
441	2	443	2,771	1,395	
		0			
0	0	0	670	1	
0	0	0	655	0	
0	0	0	0	0	
0	0	0	48	0	
0	0	0	51	0	
0	0	0	53	0	
0	0	0	0	2	
0	0	0	0	100	
0	0	0	0	111	
0	0	0	0	0	
2	5	7	21	0	
1	4	5	18	0	
2	8	10	21	0	
2	8	10	19	0	
0	0	0	0	8	
0	0	0	0	44	
0	0	0	663	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1,412	0	
0	0	0	0	0	
0	0	0	743	0	
0	0	0	615	0	
0	0	0	820	0	
0	0	0	676	0	
0	0	0	586	0	
0	0	0	1,037	0	
0	0	0	0	0	
0	0	0	2	12	
0	0	0	2	12	
0	0	0	2	12	
0	0	0	3	11	
0	0	0	0	32	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	316	7	
0	0	0	3	2	
1	0	1	3	2	
0	0	0	0	0	
0	0	0	5	0	
0	0	0	3	0	
0	0	0	6	0	
0	0	0	2	2	
0	0	0	0	9	
		0			
0	0	0	345	0	
0	0	0	371	0	
0	0	0	355	0	
0	0	0	330	1	
0	0	0	1,049	0	
0	0	0	0	0	
3	9	12	42	0	
4	0	4	10	16	
2	0	2	13	30	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1	9	
0	0	0	0	0	
0	2	2	256	1	
0	2	2	33	1	
0	0	0	0	0	
1	0	1	8	8	
0	0	0	8	1	
0	0	0	21	6	
0	0	0	23	4	
0	0	0	0	0	
0	0	0	2	12	
0	0	0	5	1	
0	0	0	986	426	
0	0	0	985	455	
0	0	0	1,075	487	
0	0	0	1,065	425	
0	0	0	0	0	
0	0	0	265	205	
0	0	0	229	222	
0	0	0	883	271	
0	0	0	1,121	275	
0	0	0	0	0	
0	0	0	1,049	5	
0	0	0	827	5	
0	0	0	0	0	
0	0	0	7	18	
0	0	0	7	18	
0	0	0	7	18	
0	0	0	7	18	
0	0	0	7	18	
0	0	0	8	17	
0	0	0	7	18	
0	0	0	7	18	
0	0	0	0	25	
0	0	0	672	430	
0	0	0	722	421	
0	0	0	0	0	
0	0	0	1,165	60	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	15	91	
0	0	0	26	73	
0	0	0	0	0	
0	0	0	361	1	
0	0	0	510	1	
0	0	0	0	76	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
31	0	31	1,148	145	
		0			
0	0	0	0	1	
0	0	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
22	0	22	746	93	
0	0	0	0	4	
<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
0	0	0	0	0	
		0			
4	11	15	15	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	680	38	
		0			
0	0	0	0	0	
0	0	0	0	0	
2	0	2	10	7	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
71	0	71	2,623	328	
0	0	0	490	1	
0	0	0	21	1	
0	0	0	17	1	
0	0	0	14	1	
0	0	0	17	0	
0	0	0	354	1	
0	0	0	951	1	
0	0	0	13	1	
0	0	0	12	1	
0	0	0	10	1	
0	0	0	0	163	
0	0	0	37	5	
0	0	0	0	0	
0	0	0	495	35	
		0			
0	0	0	450	2	
0	0	0	451	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	1,178	1	
0	0	0	0	178	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	78	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	3	0	
0	0	0	12	19	
0	0	0	13	19	
0	0	0	11	20	
0	0	0	20	9	
0	0	0	17	12	
0	0	0	0	10	
		0			
0	0	0	48	0	
0	0	0	0	0	
0	0	0	0	0	
2	4	6	156	4	
		0			
0	0	0	90	9	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
3	0	3	453	14	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	20	1	
0	0	0	14	1	
0	0	0	18	1	
0	0	0	20	0	
0	0	0	22	1	
0	0	0	16	1	
0	0	0	20	1	
0	0	0	0	22	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
33	0	33	1,126	138	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	69	14	
0	0	0	0	0	
0	0	0	0	0	
7	0	7	57	21	
0	0	0	465	1	
0	0	0	505	0	
		0			
0	0	0	820	1	
0	0	0	0	0	
		0			
0	0	0	724	1	
0	0	0	0	0	
0	0	0	0	185	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	159	129	
		0			
0	0	0	517	1	
0	0	0	517	1	
0	0	0	500	1	
0	0	0	1	1	
0	0	0	2	1	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	0	127	
0	0	0	690	18	
0	0	0	103	4	
0	0	0	8	2	
0	0	0	116	5	
0	0	0	0	37	
0	0	0	24	0	
0	0	0	28	0	
0	0	0	28	0	
0	0	0	1,031	110	
10	0	10	815	107	
6	8	14	60	10	
0	0	0	6	0	
<b>0</b>	<b>0</b>	<b>0</b>	<b>6</b>	<b>0</b>	
<b>0</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>0</b>	
15	12	27	69	84	
0	0	0	42	54	
0	0	0	32	16	
0	0	0	30	5	
0	0	0	45	5	
0	0	0	45	12	
0	0	0	11	19	
0	0	0	16	24	
0	1	1	8	0	
0	0	0	5	1	
0	0	0	15	12	
0	0	0	14	2	
0	0	0	15	9	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	12	9	
0	0	0	5	0	
0	0	0	4	2	
0	0	0	5	1	
0	1	1	8	0	
0	0	0	9	2	
0	2	2	9	0	
0	2	2	8	0	
0	0	0	1	0	
0	0	0	0	3	
0	0	0	29	0	
0	0	0	24	1	
0	0	0	18	1	
0	0	0	367	42	
0	0	0	356	42	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	1	1	
0	0	0	13	1	
0	0	0	11	1	
13	32	45	434	9	
0	0	0	0	48	
0	0	0	45	22	
0	0	0	30	1	
0	1	1	13	0	
0	1	1	6	0	
0	1	1	9	0	
0	0	0	11	2	
0	1	1	21	0	
1	2	3	14	0	
0	1	1	25	0	
0	0	0	22	1	
0	0	0	27	0	
0	1	1	24	0	
0	1	1	9	0	
0	0	0	0	15	
0	0	0	0	6	
0	1	1	49	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	1	1	44	0	
0	0	0	32	1	
0	0	0	25	1	
0	0	0	27	1	
0	0	0	0	1	
0	0	0	47	1	
0	0	0	43	1	
2	2	4	43	3	
0	0	0	40	1	
0	0	0	42	2	
0	0	0	13	11	
0	1	1	48	0	
0	0	0	0	1	
0	0	0	0	1	
0	0	0	0	1	
0	0	0	0	1	
0	0	0	4	2	
0	0	0	4	2	
0	0	0	3	2	
0	0	0	4	2	
0	0	0	4	2	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	1	1	
0	0	0	2	1	
0	0	0	0	35	
77	0	77	77	347	
3	0	3	35	9	
17	46	63	1,138	8	
0	0	0	4	21	
0	0	0	1	16	
0	0	0	13	23	
0	0	0	11	34	
0	0	0	12	30	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	12	37	
0	1	1	15	0	
0	2	2	24	0	
0	1	1	34	0	
6	16	22	22	21	
8	8	16	16	41	
0	0	0	10	0	
0	0	0	35	5	
0	0	0	27	8	
0	0	0	36	5	
2	2	4	40	4	
2	2	4	39	5	
0	0	0	12	16	
0	0	0	10	16	
0	0	0	10	15	
0	0	0	15	13	
0	0	0	10	6	
0	0	0	7	8	
1	0	1	5	2	
0	0	0	6	6	
0	0	0	463	73	
0	0	0	375	89	
0	0	0	294	143	
0	0	0	7	0	
0	0	0	4	1	
0	0	0	2	1	
0	0	0	4	1	
0	0	0	4	1	
0	0	0	2	1	
0	0	0	3	1	
0	0	0	3	1	
0	1	1	1	0	
0	0	0	5	0	
0	0	0	2	0	
0	0	0	0	0	
0	0	0	90	22	
0	0	0	100	19	
0	0	0	9	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	9	0	
0	0	0	14	5	
0	0	0	3	6	
0	1	1	3	0	
0	0	0	4	2	
0	0	0	7	2	
0	0	0	7	2	
0	0	0	6	2	
0	0	0	8	0	
0	1	1	3	0	
0	0	0	11	1	
0	0	0	22	0	
0	0	0	32	3	
0	0	0	12	1	
0	0	0	11	68	
0	0	0	16	58	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	28	10	
0	0	0	39	58	
0	0	0	71	122	
0	0	0	19	56	
0	0	0	17	47	
0	0	0	12	46	
0	0	0	6	2	
0	0	0	5	2	
0	0	0	7	2	
0	0	0	2	2	
11	0	11	11	109	
0	0	0	3	3	
0	0	0	3	3	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
		0			
8	4	12	39	21	
0	0	0	37	32	
0	0	0	15	0	
0	0	0	16	0	
0	0	0	16	0	
0	0	0	4	2	
0	0	0	64	653	
		0			
0	0	0	31	148	
0	0	0	31	170	
0	0	0	32	26	
0	0	0	1	2	
0	0	0	1	0	
0	0	0	0	957	
		0			
0	0	0	195	10	
0	0	0	839	10	
0	0	0	0	53	
		0			
0	1	1	1	0	
0	0	0	39	21	
1	0	1	245	5	
0	0	0	37	75	
34	0	34	2,046	159	
		0			
0	0	0	0	2	
0	0	0	0	2	
1	4	5	286	0	
0	0	0	59	63	
0	0	0	0	0	
0	0	0	0	1	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	4	0	
0	0	0	0	23	
		0			
3	11	14	14	0	
3	10	13	13	0	
0	0	0	0	0	
0	0	0	480	26	
0	0	0	13	26	
0	0	0	20	17	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	1	
0	0	0	0	0	
0	0	0	0	0	
0	1	1	1	0	
0	0	0	0	0	
0	0	0	0	0	
0	1	1	1	0	
0	0	0	0	0	
0	1	1	1	0	
0	0	0	0	0	
0	1	1	1	0	
0	1	1	1	0	
0	1	1	1	0	
0	0	0	0	0	
0	0	0	0	0	
0	1	1	1	0	
0	1	1	1	0	
0	1	1	1	0	
0	1	1	1	0	
0	0	0	0	0	
0	0	0	0	0	
0	1	1	1	0	
0	1	1	1	0	
0	1	1	1	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	1	1	1	1	0
0	1	1	1	1	0
0	0	0	0	112	20
0	0	0	0	9	1
0	0	0	0	257	15
			0		
0	0	0	0	187	16
0	0	0	0	279	16
0	0	0	0	2	0
0	0	0	0	0	52
0	0	0	0	20	7
0	0	0	0	22	7
0	0	0	0	19	8
0	0	0	0	0	0
1	4	5	5	9	3
0	0	0	0	2	19
0	0	0	0	2	33
0	0	0	0	0	0
0	0	0	0	7	109
0	0	0	0	8	109
0	0	0	0	7	111
0	0	0	0	0	29
2	4	6	6	19	8
3	7	10	10	14	10
2	2	4	4	4	12
5	0	5	5	5	22
0	0	0	0	0	0
0	0	0	0	0	18
			0		
0	0	0	0	57	4
0	0	0	0	57	4
0	2	2	2	56	0
2	0	2	2	2	42

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
3	9	12	12	0	
2	5	7	7	0	
0	0	0	267	121	
0	0	0	2	7	
7	14	21	21	37	
5	16	21	22	29	
0	0	0	0	0	
0	0	0	2	2	
0	0	0	2	1	
0	0	0	0	4	
0	0	0	7	37	
<b>20</b>	<b>63</b>	<b>83</b>	<b>804</b>	<b>0</b>	
1	5	6	6	0	
1	5	6	6	0	
		0			
2	6	8	8	0	
2	7	9	9	0	
0	0	0	1,182	100	
0	0	0	7	1	
0	0	0	13	1	
2	5	7	261	0	
3	11	14	510	0	
286	534	820	1,195	372	
0	0	0	73	14	
0	0	0	138	16	
0	0	0	0	265	
0	0	0	256	84	
0	0	0	136	181	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	1	0	
0	0	0	3	0	
0	0	0	2	0	
0	0	0	3	0	
0	0	0	4	0	
0	0	0	3	1	
0	0	0	7	0	
0	0	0	7	0	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	4	1	
0	0	0	4	1	
0	0	0	8	0	
0	0	0	8	0	
0	0	0	7	1	
0	0	0	7	1	
0	0	0	0	142	
0	0	0	73	14	
0	0	0	15	134	
0	0	0	15	134	
0	0	0	196	127	
0	0	0	173	204	
0	0	0	0	542	
0	0	0	0	5	
0	0	0	0	5	
0	0	0	0	11	
0	0	0	0	1	
0	0	0	83	70	
0	0	0	458	39	
0	0	0	578	40	
0	0	0	273	36	
0	0	0	0	0	
18	0	18	18	243	
0	0	0	4	0	
0	0	0	82	155	
0	0	0	3	5	
0	0	0	3	23	
0	0	0	0	11	
0	0	0	19	41	
0	0	0	36	34	
0	0	0	31	30	
0	0	0	4	0	
0	0	0	4	1	
0	0	0	0	19	
0	0	0	0	7	
0	0	0	2	14	
0	0	0	2	14	
0	0	0	0	2	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	4	0	
0	0	0	3	1	
0	0	0	3	1	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	3	0	
0	0	0	3	1	
0	0	0	5	0	
0	0	0	7	0	
0	0	0	7	1	
0	0	0	10	1	
0	0	0	6	1	
0	0	0	9	1	
0	0	0	8	1	
0	0	0	8	0	
0	0	0	3	1	
0	0	0	2	0	
0	0	0	3	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	2	0	
0	0	0	2	1	
0	0	0	3	1	
0	0	0	4	0	
0	0	0	3	1	
0	0	0	3	1	
0	0	0	4	0	
0	0	0	2	1	
0	0	0	3	1	
0	0	0	3	0	
0	0	0	0	34	
0	0	0	2	7	
0	0	0	2	5	
0	0	0	0	0	
0	0	0	9	47	
0	0	0	2	4	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	2	4	
0	0	0	0	0	
0	1	1	2	1	
0	0	0	914	289	
0	0	0	10	4	
0	0	0	10	4	
0	0	0	9	6	
0	0	0	9	6	
0	0	0	5	1	
0	0	0	5	1	
0	0	0	16	12	
0	0	0	16	12	
0	0	0	13	12	
0	0	0	13	12	
0	0	0	19	1	
0	0	0	19	1	
0	0	0	21	1	
0	0	0	21	1	
0	0	0	12	14	
0	0	0	12	14	
0	0	0	33	1	
0	0	0	33	1	
0	0	0	17	5	
0	0	0	17	5	
0	0	0	0	79	
		0			
0	0	0	28	43	
0	0	0	28	43	
0	0	0	28	43	
0	0	0	27	44	
0	0	0	3	15	
0	0	0	2	5	
0	0	0	2	9	
0	0	0	0	577	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
		0			
0	2	2	2	0	
1	3	4	4	0	
1	3	4	4	0	
1	3	4	4	0	
		0			
2	8	10	10	0	
3	8	11	11	0	
0	0	0	761	128	
0	0	0	28	0	
0	0	0	14	0	
0	0	0	4	4	
0	0	0	4	12	
0	0	0	8	3	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	63	11	
2	6	8	19	7	
4	12	16	20	3	
0	0	0	0	0	
0	0	0	2,438	2,573	
0	0	0	391	348	
0	0	0	53	5	
0	0	0	47	5	
0	0	0	50	6	
0	0	0	0	0	
0	0	0	0	2	
2	8	10	10	0	
2	8	10	10	0	
0	0	0	1,090	84	
1	0	1	1	3	
0	0	0	17	0	
0	0	0	15	0	
0	0	0	16	0	
0	0	0	15	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	13	0	
0	0	0	15	0	
0	0	0	12	0	
0	0	0	12	0	
0	0	0	15	1	
0	0	0	14	1	
0	0	0	6	0	
0	0	0	10	1	
0	0	0	13	2	
0	0	0	12	1	
0	0	0	12	1	
0	0	0	8	0	
0	0	0	0	16	
2	1	3	119	12	
24	56	80	84	20	
5	12	17	53	12	
0	0	0	3	6	
0	0	0	452	33	
0	0	0	407	39	
0	0	0	390	85	
0	0	0	469	112	
0	1	1	1	0	
0	0	0	0	422	
0	0	0	0	15	
0	0	0	0	10	
0	0	0	0	0	
0	0	0	0	0	
1	5	6	6	0	
1	3	4	4	0	
0	0	0	34	9	
0	0	0	4	0	
0	0	0	17	21	
0	0	0	18	20	
0	0	0	0	0	
0	0	0	118	58	
0	0	0	146	54	
0	0	0	0	2	
0	0	0	2	7	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	3	7	
0	0	0	0	62	
0	0	0	4	14	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	0	1	
0	0	0	2	1	
0	0	0	2	1	
0	0	0	0	1	
0	0	0	18	27	
0	0	0	17	33	
0	0	0	0	0	
0	0	0	188	62	
0	0	0	145	76	
0	0	0	489	85	
		0			
0	1	1	4	0	
		0			
0	1	1	4	0	
0	1	1	4	0	
0	1	1	4	0	
0	0	0	0	1	
0	0	0	1	1	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	0	
0	0	0	7	0	
0	0	0	6	0	
0	0	0	6	0	
0	0	0	9	0	
0	0	0	11	0	
0	0	0	5	1	
0	0	0	7	0	
0	0	0	13	1	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	11	1	
0	0	0	7	0	
0	0	0	7	1	
0	0	0	18	0	
0	0	0	27	412	
1	0	1	1	75	
0	0	0	42	46	
		0			
16	50	66	69	0	
1	2	3	7	0	
		0			
1	3	4	8	0	
1	4	5	38	0	
0	0	0	872	177	
		0			
0	0	0	4	5	
0	0	0	0	0	
		0			
0	0	0	115	16	
0	1	1	9	9	
0	2	2	86	0	
4	0	4	4	109	
0	0	0	47	0	
0	0	0	44	0	
0	0	0	0	0	
1	5	6	12	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	137	115	
0	2	2	5	1	
1	2	3	3	3	
		0			
2	5	7	108	0	
0	0	0	113	2	
0	0	0	111	2	
0	0	0	70	1	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	80	2	
0	0	0	0	16	
0	0	0	151	22	
0	0	0	2	4	
0	0	0	2	4	
0	0	0	0	0	
0	0	0	36	5	
0	0	0	35	3	
0	0	0	39	4	
0	0	0	3	0	
0	0	0	0	1	
0	0	0	0	21	
0	0	0	4	14	
0	0	0	6	100	
0	0	0	4	103	
0	0	0	62	7	
0	0	0	31	8	
0	0	0	50	9	
0	0	0	44	9	
0	0	0	0	10	
0	0	0	12	1	
0	0	0	12	1	
0	0	0	12	0	
0	0	0	814	22	
0	0	0	0	23	
0	0	0	356	0	
0	0	0	2,396	0	
0	0	0	6	0	
0	0	0	0	15	
0	0	0	365	14	
		0			
0	0	0	1,323	24	
0	0	0	593	14	
0	0	0	924	23	
0	0	0	0	80	
0	0	0	5	0	
0	0	0	5	0	
0	0	0	4	136	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	329	0	
35	0	35	320	146	
35	0	35	223	147	
0	0	0	1	0	
0	0	0	20	0	
0	0	0	0	49	
0	0	0	328	0	
0	0	0	4	3	
19	0	19	19	90	
0	0	0	241	19	
0	0	0	591	0	
287	0	287	2,594	910	
		0			
0	0	0	1,870	0	
0	0	0	1,696	0	
0	0	0	0	97	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	95	2	
0	0	0	0	1	
0	0	0	349	17	
0	0	0	401	18	
0	0	0	410	20	
0	0	0	643	30	
0	0	0	2,500	80	
0	0	0	10	0	
0	0	0	0	110	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	17	25	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	50	0	
0	0	0	11	21	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1,331	0	
266	0	266	1,528	844	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	155	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	52	2	
0	0	0	139	0	
0	0	0	301	9	
0	0	0	0	123	
0	0	0	19	0	
0	0	0	16	1	
0	0	0	17	0	
0	0	0	14	0	
0	0	0	0	22	
0	0	0	18	0	
0	0	0	0	0	
0	0	0	19	1	
0	0	0	0	0	
0	0	0	7	1	
0	0	0	0	7	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	3,093	145	
0	0	0	1,670	771	
		0			
127	0	127	257	479	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
127	0	127	257	479	
130	0	130	257	501	
124	0	124	257	460	
141	0	141	256	531	
0	0	0	0	0	
0	0	0	839	36	
0	0	0	37	11	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	10	14	
0	0	0	41	1	
0	0	0	42	3	
0	0	0	41	3	
0	0	0	41	1	
0	0	0	41	1	
0	0	0	41	1	
0	0	0	42	0	
0	0	0	42	0	
0	0	0	1	16	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	524	7	
0	0	0	357	1	
0	0	0	419	9	
0	0	0	0	248	
		0			
0	0	0	1,032	0	
0	0	0	1,011	0	
0	0	0	857	0	
0	0	0	1,101	0	
0	0	0	305	0	
0	0	0	5	0	
0	0	0	0	80	
		0			
0	0	0	1,084	0	
0	0	0	786	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
0	0	0	0	0	15
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
		0			
		0			
		0			
0	0	0	639	306	
0	0	0	30	0	
0	0	0	30	1	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	630	51	
0	0	0	519	7	
0	0	0	310	70	
0	0	0	0	0	
		0			
0	0	0	104	0	
0	0	0	83	0	
0	0	0	627	0	
0	0	0	658	0	
0	0	0	29	89	
0	0	0	22	20	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
25	26	51	1,268	55	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	37	0	
0	0	0	36	0	
0	0	0	36	0	
7	18	25	25	5	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	103	5	
0	0	0	98	0	
0	0	0	98	0	
0	0	0	98	0	
0	0	0	98	0	
0	0	0	98	0	
0	0	0	0	2	
0	0	0	147	17	
0	0	0	0	2	
0	0	0	125	10	
0	0	0	125	10	
0	0	0	125	10	
0	0	0	123	11	
0	0	0	0	72	
0	0	0	7	6	
1	0	1	29	6	
0	0	0	28	6	
0	1	1	29	0	
<b>0</b>	<b>0</b>	<b>0</b>	<b>27</b>	<b>0</b>	
0	0	0	0	0	
		0			
0	0	0	605	0	
0	0	0	562	0	
		0			
0	0	0	527	0	
0	0	0	499	0	
0	0	0	1,087	0	
0	0	0	2,846	1	
0	0	0	1,298	0	
0	0	0	1,599	696	
0	0	0	998	321	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1	0	
0	0	0	2	0	
0	0	0	0	0	
0	0	0	652	1	
0	0	0	702	1	
0	0	0	732	0	
0	0	0	584	0	
0	0	0	911	29	
0	0	0	1,308	0	
0	0	0	13	0	
0	0	0	7	0	
0	0	0	0	1	
0	0	0	0	1	
0	0	0	0	1,553	
0	0	0	21	0	
0	0	0	21	0	
0	0	0	4	7	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	102	3	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
7	0	7	249	32	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	57	6	
0	0	0	56	3	
0	0	0	55	4	
0	0	0	52	10	
0	0	0	53	8	
17	6	23	23	48	
0	0	0	10	1	
0	0	0	1	0	
0	0	0	13	0	
0	0	0	1	0	
0	0	0	11	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	11	0	
0	0	0	0	17	
2	8	10	331	0	
0	1	1	271	0	
0	0	0	331	0	
0	0	0	168	0	
0	0	0	4	36	
0	0	0	39	5	
1	0	1	40	7	
0	0	0	0	0	
0	0	0	14	9	
0	0	0	13	2	
0	0	0	14	2	
0	0	0	0	5	
0	0	0	20	2	
0	0	0	18	2	
0	0	0	0	5	
0	0	0	17	2	
0	0	0	25	2	
0	0	0	0	5	
0	0	0	0	20	
0	0	0	106	20	
0	0	0	104	14	
0	0	0	103	13	
0	0	0	105	12	
0	0	0	0	0	
0	0	0	736	2	
0	0	0	795	2	
0	0	0	0	5	
0	0	0	0	2	
0	0	0	8	1	
0	0	0	9	1	
0	0	0	9	1	
0	0	0	9	1	
0	0	0	9	1	
0	0	0	9	1	
0	0	0	0	0	
0	0	0	1,008	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1,052	0	
0	0	0	1,301	0	
0	0	0	0	60	
		0			
0	0	0	1,098	0	
796	0	796	1,498	2,523	
1,609	0	1,609	3,325	5,096	
0	0	0	0	2	
0	0	0	6	0	
0	0	0	11	0	
0	0	0	6	0	
0	0	0	0	15	
0	0	0	100	0	
0	0	0	102	4	
0	0	0	0	0	
0	0	0	17	2	
0	0	0	16	2	
0	0	0	0	5	
0	0	0	944	5	
2	8	10	272	29	
0	0	0	4,318	7	
0	0	0	2,951	5	
0	0	0	0	92	
2	5	7	53	0	
0	0	0	80	0	
0	0	0	95	5	
0	0	0	0	0	
0	0	0	0	0	
163	0	163	860	601	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	24	52	





APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	141	31	
0	0	0	43	4	
5	14	19	296	2	
0	0	0	279	0	
0	0	0	0	16	
		0			
0	0	0	36	51	
0	0	0	36	50	
0	0	0	0	0	
0	0	0	17	20	
0	0	0	43	17	
0	0	0	0	0	
0	0	0	18	3	
0	0	0	18	3	
0	0	0	18	3	
0	0	0	18	3	
0	0	0	18	3	
0	0	0	19	2	
0	0	0	19	2	
0	0	0	18	3	
0	0	0	18	3	
0	0	0	18	3	
0	0	0	0	0	
		0			
0	0	0	3,063	2	
0	0	0	2,650	2	
0	0	0	2,891	2	
0	0	0	0	5	
0	0	0	1,110	0	
0	0	0	807	0	
0	0	0	1,437	0	
0	0	0	474	102	
0	0	0	230	10	
0	0	0	18	0	
0	0	0	19	0	
0	0	0	14	0	
0	0	0	0	6	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	872	6	
0	0	0	568	8	
0	0	0	0	0	
0	0	0	1	0	
0	0	0	0	0	
0	0	0	66	9	
0	0	0	25	21	
0	0	0	24	19	
0	0	0	0	0	
0	0	0	19	0	
0	0	0	19	0	
0	0	0	0	0	
		0			
0	0	0	628	0	
0	0	0	600	0	
0	0	0	398	0	
0	0	0	224	0	
0	0	0	0	0	
0	0	0	0	2	
0	0	0	27	0	
3	9	12	13	4	
0	0	0	0	107	
0	0	0	1	1	
0	0	0	0	4	
0	0	0	2	0	
0	0	0	190	2	
0	0	0	0	3	
0	0	0	639	0	
0	0	0	821	0	
0	0	0	7	0	
0	0	0	4	0	
0	0	0	0	2	
0	0	0	29	0	
0	0	0	27	0	
0	0	0	0	5	
3	8	11	125	1	
0	0	0	362	0	
0	0	0	348	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	529	0	
0	0	0	0	15	
0	2	2	3	2	
1	4	5	5	10	
0	0	0	0	0	
0	0	0	170	0	
0	0	0	61	30	
0	0	0	10	0	
0	0	0	10	0	
0	0	0	1	3	
1	5	6	281	3	
0	0	0	236	0	
0	0	0	132	0	
0	0	0	0	4	
0	2	2	109	1	
0	2	2	123	0	
0	0	0	0	0	
2	6	8	11	0	
0	0	0	0	0	
		0			
0	0	0	39	10	
0	0	0	57	26	
0	0	0	59	46	
0	0	0	102	11	
0	0	0	0	0	
0	0	0	80	4	
0	0	0	426	0	
0	0	0	916	0	
0	0	0	5	0	
0	0	0	0	15	
<b>0</b>	<b>0</b>	<b>0</b>	<b>125</b>	<b>0</b>	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	7	11	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	50	15	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	235	33	
		0			
0	0	0	383	0	
0	0	0	326	0	
0	0	0	0	10	
0	0	0	692	0	
0	0	0	661	0	
		0			
0	0	0	787	0	
0	0	0	816	0	
0	0	0	0	20	
0	0	0	0	58	
0	0	0	0	14	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	81	1	
		0			
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1,554	16	
0	0	0	18	68	
		0			
0	0	0	331	0	
0	0	0	304	0	
0	0	0	292	0	
0	0	0	0	15	
0	0	0	14	0	
0	0	0	12	0	
0	0	0	0	4	
0	0	0	6	16	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	13	16	
0	0	0	7	130	
0	0	0	0	0	
0	0	0	14	10	
0	0	0	15	3	
0	0	0	24	1	
0	0	0	4	4	
0	0	0	0	0	
0	0	0	73	1	
0	0	0	57	0	
0	0	0	0	0	
<b>0</b>	<b>0</b>	<b>0</b>	<b>25</b>	<b>0</b>	
0	0	0	26	11	
0	0	0	24	12	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	122	1	
0	0	0	14	1	
0	0	0	15	0	
0	0	0	15	0	
1	2	3	3	0	
0	0	0	0	3	
0	0	0	98	10	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	52	191	
0	0	0	18	26	
0	0	0	14	33	
0	0	0	0	0	
0	0	0	26	26	
0	0	0	25	26	
0	0	0	0	0	
0	0	0	4	10	
0	0	0	11	9	
0	0	0	15	12	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	22	0	
0	0	0	9	11	
0	0	0	10	0	
0	0	0	9	0	
0	0	0	3	6	
1	5	6	28	1	
2	6	8	21	2	
2	6	8	31	1	
2	8	10	22	1	
2	5	7	24	1	
0	0	0	0	0	
0	0	0	360	0	
0	0	0	687	0	
0	0	0	938	0	
7	0	7	7	285	
0	0	0	18	169	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	670	30	
0	2	2	5	1	
1	3	4	7	1	
1	2	3	11	1	
9	27	36	53	1	
9	27	36	55	1	
0	0	0	0	0	
38	0	38	1,721	284	
0	0	0	943	0	
0	0	0	970	0	
0	0	0	120	0	
0	0	0	477	10	
0	0	0	16	1	
0	0	0	12	1	
0	0	0	11	1	
0	0	0	24	1	
0	0	0	21	1	
0	0	0	14	1	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	14	1	
0	0	0	14	1	
0	0	0	25	1	
0	0	0	18	1	
0	0	0	20	1	
0	0	0	16	1	
0	0	0	16	1	
0	0	0	0	38	
53	168	221	406	0	
0	0	0	189	0	
0	0	0	450	11	
0	0	0	788	69	
0	0	0	22	0	
2	0	2	2	20	
0	0	0	1	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	0	5	
0	0	0	220	14	
0	0	0	0	0	
		0			
0	0	0	51	347	
0	0	0	51	332	
0	0	0	17	26	
0	0	0	23	20	
0	0	0	19	23	
0	0	0	0	0	
0	0	0	12	0	
0	0	0	14	0	
0	0	0	350	0	
0	0	0	412	0	
0	0	0	1,410	10	
0	0	0	10	0	
0	0	0	12	0	
0	0	0	12	0	
0	0	0	15	0	
0	0	0	4	0	
0	0	0	4	0	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	4	0	
0	0	0	14	8	
0	0	0	6	17	
0	0	0	500	0	
0	0	0	448	0	
8	0	8	8	158	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	30	16	
0	0	0	3	0	
0	0	0	2	0	
0	0	0	3	0	
0	0	0	9	8	
0	0	0	192	170	
0	0	0	0	3	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	513	1	
0	0	0	398	0	
0	0	0	8	0	
0	0	0	18	0	
0	0	0	36	0	
22	0	22	22	164	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	3	0	
0	0	0	2	0	
21	0	21	738	94	
0	0	0	229	0	
0	0	0	280	0	
4	0	4	4	84	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	1,114	0	
0	0	0	17	0	
0	0	0	18	0	
7	0	7	7	176	
0	0	0	407	0	
0	0	0	427	13	
0	0	0	654	0	
0	0	0	591	0	
0	0	0	0	10	
0	0	0	223	0	
0	0	0	309	0	
0	0	0	299	0	
0	0	0	5	0	
0	0	0	5	0	
0	0	0	6	0	
0	0	0	4	0	
32	0	32	32	103	
0	0	0	0	0	
0	0	0	0	0	
1	4	5	238	1	
0	0	0	60	0	
0	0	0	60	0	
0	0	0	64	0	
0	0	0	64	0	
0	0	0	0	7	
10	0	10	1,008	35	
0	0	0	4	6	
0	0	0	1,273	0	
0	0	0	1,697	0	
0	0	0	0	0	
23	0	23	23	74	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	134	193	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	431	1	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	307	6	
14	8	22	308	35	
1	0	1	313	131	
2	0	2	315	108	
0	0	0	260	147	
0	0	0	371	36	
0	0	0	301	194	
0	0	0	254	28	
0	0	0	199	0	
0	0	0	0	96	
		0			
0	0	0	499	0	
0	0	0	560	0	
		0			
0	0	0	655	0	
0	0	0	707	0	
0	0	0	28	0	
0	0	0	7	0	
0	0	0	7	0	
0	0	0	28	0	
0	0	0	18	0	
0	0	0	19	0	
0	0	0	19	0	
0	0	0	19	0	
87	0	87	87	276	
0	0	0	81	0	
0	0	0	81	0	
0	0	0	83	0	
0	0	0	0	0	
		0			
0	0	0	770	0	
0	0	0	775	0	
		0			
0	0	0	574	0	
0	0	0	857	0	
465	0	465	465	1,473	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
		0			
0	0	0	650	0	
0	0	0	551	0	
0	0	0	737	0	
0	0	0	645	0	
0	0	0	671	0	
0	0	0	688	0	
0	0	0	669	0	
0	0	0	665	0	
0	0	0	689	0	
0	0	0	648	0	
0	0	0	2	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	18	0	
0	0	0	19	0	
0	0	0	19	0	
0	0	0	3	0	
0	0	0	19	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	2	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	0	
698	0	698	698	2,211	
		0			
0	0	0	104	0	
0	0	0	101	0	
0	0	0	102	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	105	0	
0	0	0	139	0	
		0			
0	0	0	139	0	
0	0	0	145	0	
0	0	0	150	0	
0	0	0	146	0	
64	0	64	64	206	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
34	0	34	34	110	
0	0	0	15	19	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	296	2	
		0			
0	0	0	0	0	
0	0	0	0	0	
235	0	235	261	743	
0	0	0	0	0	
0	0	0	0	0	
22	2	24	55	66	
0	0	0	275	3	
0	0	0	0	0	
0	0	0	0	0	
910	0	910	1,541	2,880	
0	0	0	55	2	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	54	3	
0	0	0	0	2	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	189	32	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
391	0	391	1,191	1,237	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
471	0	471	1,545	1,490	
		0			
0	0	0	883	0	
929	0	929	929	2,942	
212	0	212	905	674	
0	0	0	0	25	
0	0	0	0	0	
0	0	0	0	0	
125	0	125	3,840	394	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	746	39	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	571	40	
0	0	0	53	0	
0	0	0	53	0	
0	0	0	53	0	
0	0	0	53	0	
0	0	0	53	0	
0	0	0	53	0	
0	0	0	53	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
8	0	8	100	24	
0	0	0	38	0	
0	0	0	41	0	
0	0	0	27	0	
0	0	0	22	0	
0	0	0	51	0	
0	0	0	0	142	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
7	0	7	62	21	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	234	0	
0	0	0	240	0	
0	0	0	791	0	
0	0	0	0	12	
0	0	0	0	0	
0	0	0	0	0	
8	0	8	50	24	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	102	3	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
7	0	7	85	21	
0	0	0	154	52	
1	5	6	75	0	
0	0	0	60	0	
0	0	0	65	0	
0	0	0	37	4	
		0			
0	0	0	0	0	
0	0	0	0	0	
11	0	11	294	33	
0	0	0	173	13	
0	0	0	7	5	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	192	0	
0	0	0	30	4	
0	0	0	30	5	
0	0	0	31	4	
0	0	0	30	3	
0	0	0	51	10	
0	0	0	0	10	
1	2	3	63	0	
0	0	0	58	4	



APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	58	5	
3	0	3	3	16	
		0			
0	0	0	318	0	
0	0	0	153	0	
0	0	0	242	0	
0	0	0	490	1	
0	0	0	7	0	
0	0	0	3	1	
0	0	0	0	15	
0	0	0	0	0	
0	0	0	0	0	
7	0	7	568	21	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	1,122	17	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
7	0	7	527	21	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
4	0	4	389	11	
0	0	0	277	15	
0	0	0	0	0	
		0			
0	0	0	0	0	
0	0	0	0	0	
7	0	7	390	21	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NOx BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
		0			
0	0	0	0	0	0
0	0	0	0	0	0
		0			
0	0	0	0	0	0
0	0	0	0	0	0
		0			
0	0	0	0	0	0
0	0	0	0	0	0
		0			
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	1,432	99	
0	0	0	1	1	
0	0	0	38	0	
0	0	0	38	0	
0	0	0	38	0	
0	0	0	4	0	
0	0	0	15	6	
0	0	0	16	5	
0	0	0	16	4	
0	0	0	16	4	
0	0	0	16	5	
0	0	0	16	5	
0	0	0	15	5	
0	0	0	16	4	
0	0	0	15	6	
0	0	0	16	5	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	0	0	
7	0	7	1,618	22	
0	0	0	373	3	
0	0	0	370	3	
0	0	0	343	3	
0	0	0	0	5	
		0			
0	0	0	98	86	
0	0	0	98	51	
0	0	0	97	73	
0	0	0	0	0	
0	0	0	17	5	
0	0	0	19	3	
0	0	0	18	4	
0	0	0	19	3	
0	0	0	18	4	
0	0	0	18	4	
0	0	0	20	2	
0	0	0	19	3	
0	0	0	19	2	
0	0	0	19	2	
0	0	0	20	2	
0	0	0	19	3	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	204	2	
0	0	0	13	148	
0	0	0	2,073	3	
0	0	0	1,712	3	
0	0	0	0	8	
		0			
0	0	0	153	0	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
0	0	0	111	2	
0	0	0	0	0	
0	0	0	621	2	
0	0	0	657	2	
0	0	0	720	2	
0	0	0	0	5	
		0			
0	0	0	467	0	
0	0	0	537	0	
0	0	0	1,854	62	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	80	
		0			
0	0	0	1,032	0	
0	0	0	1,130	0	
0	0	0	1,152	0	
0	0	0	0	58	
		0			
0	0	0	873	4	
0	0	0	878	5	
0	0	0	0	14	
0	0	0	1,095	0	
0	0	0	811	0	
0	0	0	4	0	
0	0	0	0	158	
0	0	0	0	0	
1	2	3	3	0	
2	6	8	8	0	
		0			
0	0	0	0	7	
0	0	0	0	6	
0	0	0	142	12	
		0			
0	0	0	0	0	
0	0	0	0	0	
0	0	0	300	38	

APPENDIX E: 2007 EMISSIONS AND ALLOWANCE HOLDINGS OF NO<sub>x</sub> BUDGET SOURCES

ACTUAL ALLOWANCES DEDUCTED BY TYPE					
BANKED 1 FOR 1	BANKED 2 FOR 1	TOTAL BANKED	TOTAL DEDUCTED	REMAINING ALLOWANCES (INCLUDES 2003-2007)	
		0			
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
46	0	46	1,563	149	
0	0	0	865	0	
0	0	0	1	0	
0	0	0	1	0	
0	0	0	0	43	
		0			
0	0	0	0	0	0
0	0	0	0	0	0
8	0	8	649	30	
		0			
0	0	0	625	0	
0	0	0	516	10	
0	0	0	750	0	
0	0	0	646	12	
1,979	0	1,979	1,980	6,302	
0	0	0	0	14	
0	0	0	119	6	
0	1	1	120	0	
0	0	0	0	1	
0	0	0	536	2	
0	0	0	367	2	
0	0	0	0	5	
1	5	6	204	0	
0	0	0	160	0	
0	0	0	327	46	
0	0	0	46	31	
0	0	0	26	2	
0	0	0	352	3	
0	0	0	0	5	
1	5	6	141	0	
0	0	0	3	0	
0	0	0	101	32	
0	0	0	0	0	







United States  
Environmental Protection Agency  
Office of Air and Radiation  
Office of Atmospheric Programs  
Clean Air Markets Division  
1200 Pennsylvania Ave., NW  
Washington, DC 20460

EPA-430-R-08-008  
December 2008

[www.epa.gov/airmarkets](http://www.epa.gov/airmarkets)



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