

Summary of Testimony of John D. Walke, NRDC

Coarse particle pollution – also known as soot or PM₁₀ – is a mixture of materials such as metals, organics, smoke and acids. The following activities are the major sources of this type of soot pollution:

- Fly ash from coal and oil combustion;
- Industrial processes;
- Tire and paving materials from roads;
- Mining and mineral processes; and
- Construction and demolition activities.

When inhaled, these particles can cause serious health problems, including:

- Hospital admissions for heart disease;
- Increased hospital admissions and doctors' visits for respiratory disease;
- Increased respiratory symptoms in children;
- Decreased lung function; and
- Premature death in people with heart or lung disease.

EPA has set standards for coarse particle pollution since 1987. H.R. 1633 attempts to block EPA from setting health-based standards for this pollution in the future. The bill fundamentally rewrites the Clean Air Act to interfere with EPA's study of the science of coarse particle pollution; introduces a vague and expansive definition of "nuisance dust" that would exempt much dangerous PM_{2.5} and PM₁₀ industrial pollution across large swaths of the United States; and make it more difficult for states to meet air quality standards.

It would be irresponsible to deny the American people the right to breathe clean air. Coarse particle pollution standards have protected all Americans from the serious health consequences of this pollution since 1987, and we should not block or weaken these life-saving protections now. This bill is sweepingly over-inclusive, creates unintended consequences, and increases harmful air pollution and health hazards for the American people.

TESTIMONY OF JOHN D. WALKE
CLEAN AIR DIRECTOR
NATURAL RESOURCES DEFENSE COUNCIL
LEGISLATIVE HEARING ON — H.R. 1633,
THE “FARM DUST REGULATION PREVENTION ACT OF 2011.”
BEFORE THE SUBCOMMITTEE ON ENERGY AND POWER,
COMMITTEE ON ENERGY AND COMMERCE
U.S. HOUSE OF REPRESENTATIVES
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Thank you, Mr. Chairman and members of the Subcommittee, for the opportunity to testify today. My name is John Walke, and I am clean air director and senior attorney for the Natural Resources Defense Council (NRDC). NRDC is a nonprofit organization of scientists, lawyers, and environmental specialists dedicated to protecting public health and the environment. Founded in 1970, NRDC has more than 1.2 million members and online activists nationwide, served from offices in New York, Washington, Los Angeles, San Francisco, Chicago, and Beijing. I have worked at NRDC since 2000, and before that I was a Clean Air Act attorney in the Office of General Counsel for the U.S. Environmental Protection Agency. Over the last decade, I represented NRDC in many of the rulemakings and lawsuits relating to coarse particle standards discussed in my testimony.

Coarse Particle Pollution and Health Impacts

Coarse particle pollution – also known as soot or PM₁₀ – is a mixture of materials such as metals, organics, smoke and acids.¹ The particles are called “PM₁₀” because they are microscopic particles that measure between 2.5 and 10 microns in diameter – approximately seven times smaller than the diameter of one human hair.² Manmade sources of coarse particle pollution come from a variety of sources, including coal dust, fly ash, wood smoke, diesel soot, asbestos fibers, aluminum, silica, iron oxides³ and tire and brake wear.⁴ In its 2006 review of the science on soot pollution the Bush Administration found that the following activities are the major sources of this type of soot pollution:

- Fly ash from coal and oil combustion;
- Industrial processes;
- Tire and paving materials from roads;
- Mining and mineral processes; and
- Construction and demolition activities.⁵

The mixture is often embedded with toxic substances and infiltrates the airways and lungs, often penetrating past the body’s natural defensive systems. For example, crushing and grinding activities and tailing materials from sources such as mines result in coarse particles that have been found to contain arsenic and lead.⁶ As noted above, soot pollution of this size is

¹ U.S. EPA, Basic Information: Particulate Matter, *available at* <http://epa.gov/air/particlepollution/basic.html> (last visited Oct. 20, 2011).

² American Lung Association, *Dangerous to Breathe: Why EPA needs to protect us from Coarse Particles*, *available at* <http://www.lungusa.org/healthy-air/outdoor/resources/coarse-particle-fact-sheet.pdf> (last visited Oct. 20, 2011).

³ U.S. EPA, *September 2006 Revisions to the National Ambient Air Quality Standards for Particle Pollution, Overview*, p.4 *available at* http://www.epa.gov/pm/pdfs/20061013_presentation.pdf (last visited Oct. 20, 2011).

⁴ *Id.*

⁵ *See, e.g.*, U.S. EPA, Review of National Ambient Air Quality Standards for Particulate Matter: Policy Assessment of Scientific and Technical information, OAQPS Staff Paper, December 2005, table 2-2 *available at* http://www.epa.gov/ttn/naaqs/standards/pm/data/pmstaffpaper_20051221.pdf (last visited Oct. 20, 2011).

⁶ *See, e.g.*, Eric A. Betterton et al., *Metal and Metalloid Contaminants in Atmospheric Aerosols from Mining Operations*. 221 WATER AIR SOIL POLLUTION 145-157 (2011) *available at* http://tools.niehs.nih.gov/srp/researchbriefs/view.cfm?Brief_ID=202 (last visited Oct. 20, 2011).

emitted by a variety of pollution sources, including power plants, oil refineries and diesel engines. When inhaled, these particles can cause serious health problems, including:

- Hospital admissions for heart disease;
- Increased hospital admissions and doctors' visits for respiratory disease;
- Increased respiratory symptoms in children;
- Decreased lung function; and
- Premature death in people with heart or lung disease.⁷

Even at concentrations near current national standards, inhalation of coarse particle pollution is associated with “adverse pulmonary and extrapulmonary health effects” including exacerbation of chronic obstructive pulmonary disease and asthma.⁸ Further, a review of epidemiologic studies shows that coarse particle pollution is associated with both short-term and long-term mortality and has a strong effect on both cardiovascular and respiratory hospital admissions.⁹

Children are particularly sensitive to coarse particle pollution. A recent study of the San Joaquin valley in California, an area with “ozone and particulate matter air pollution [] [that is] among the worst in the state,” found that rates of asthma in the area were similarly some of the highest in the state.¹⁰ Asthma rates among children in this area are as high as 20%, compared to the state average of 13%.¹¹

As noted above, coarse particle pollution is defined based on size. As a result, the health-based air quality standards that the Environmental Protection Agency (EPA) sets for coarse particle pollution within the regulatory framework described below do not differentiate

⁷ U.S. EPA, Final Revisions to the National Ambient Air Quality Standards for Particle Pollution (Particulate Matter), Sept. 21, 2006, *available at* http://www.epa.gov/pm/pdfs/20060921_factsheet.pdf (last visited Oct. 20, 2011) (“2006 Review Fact Sheet”).

⁸ Yuh-Chin T. Huang, MD, MHS, FCCP, *The Clean Air Act : Science, Policy and Politics*, 140 CHEST 1 (July 2011).

⁹ *Id.* at 2.

¹⁰ Virginia Rondero Hernandez, et al., *Struggling to Breathe: The Epidemic of Asthma Among Children and Adolescents in the San Joaquin Valley*, 2004, at 9 *available at* http://www.csufresno.edu/ccchhs/documents/childrens_institute/asthma.pdf (last visited Oct. 20, 2011).

¹¹ *Id.*

between sources of this pollution. Instead, the agency sets national health-based air quality standards for pollution based on the size of the pollution particles.

National Ambient Air Quality Standards for Coarse Particle Pollution

The Clean Air Act (CAA) requires EPA to set so-called National Ambient Air Quality Standards, or NAAQS, for pollutants considered harmful to public health or the environment. CAA §109. To date, EPA has set NAAQS for six “criteria” pollutants: carbon monoxide, lead, sulfur dioxide, nitrogen dioxide, ozone, and particulate matter (both PM_{2.5} and PM₁₀).¹² The law then requires EPA to review these standards every five years so that the science upon which the standards are based is periodically reviewed and standards can be adjusted accordingly. §109(d). NAAQS are set at a level that is “requisite to protect the public health” with an “adequate margin of safety.” §109(b)(1).

The setting of NAAQS is a two-step process.

First, EPA must identify levels of air pollution that are unhealthy for humans, based upon the best medical and scientific evidence. EPA then establishes permissible concentrations of that pollution in the air that are necessary to protect public health with an adequate margin of safety. These health standards for pollution are set on a national level, without regard to sources of the pollution. It is this health standard-setting process that EPA Assistant Administrator for Air Gina McCarthy described in an April letter responding to Senator Mike Johanns (R-N.E.).¹³ McCarthy noted that clean air standards “are set to protect public health from outdoor air pollution and are not focused on any specific category of sources or any particular activity (including activities related to agriculture or rural roads).”

¹² U.S. EPA, National Ambient Air Quality Standards, *available at* <http://www.epa.gov/air/criteria.html> (last visited Oct. 20, 2011).

¹³ Letter from Regina McCarthy, Assistant Administrator for Air, U.S. EPA, to Senator Mike Johanns, April 14, 2011, *available at* http://johanns.senate.gov/public/?a=Files.Serve&File_id=d6489e89-3ac6-4e98-b65f-fcbe6324949b (last visited Oct. 20, 2011).

The second stage of the NAAQS process involves EPA and states identifying the sources of that pollution that are appropriate to control, based upon considerations such as the magnitude of those industries' contributions to the problem, the cost-effectiveness of controls, and the availability and technological feasibility of controls. Only at this second stage are specific polluters identified for control by states and EPA. Even then, federal control measures adopted by EPA cover large and ubiquitous sources of industrial pollution, and have *never* covered “farm dust.”

EPA has set standards for soot pollution since 1971, and specifically for PM₁₀ since 1987. EPA last re-examined standards for coarse and fine soot pollution in 2006, at which time the agency decided to keep the coarse particle standards at the same level as they were set in 1987.¹⁴ EPA is currently in the first stage of the NAAQS review process, studying the science behind the soot standards with the assistance of EPA's independent expert science advisors, as required by the Clean Air Act. The NAAQS review process begins with an assessment of the science about particle pollution and its effects on public health and welfare. EPA compiles this assessment into an “Air Quality Criteria Document.”¹⁵ Next, EPA's office of Air Quality Planning and Standards prepares a “staff paper” that summarizes and interprets the information from the criteria document to create a basis for staff recommendations to the EPA Administrator.¹⁶

After comprehensively reviewing the relevant science and medical literature, the law requires EPA to issue a proposal, even if it proposes to keep soot standards exactly the same. Staff planning documents from EPA's current review state that “it would be appropriate to consider . . . retaining . . . the current standard” for coarse particle pollution at the level it has

¹⁴ National Ambient Air Quality Standards for Particulate Matter, Final Rule, 71 Fed. Reg. 61,144 (Oct. 17, 2006) (“2006 Final Rule”).

¹⁵ *Supra* n.2, 2006 Review Fact Sheet.

¹⁶ *Id.*

been set at since 1987.¹⁷ In fact, in a recent letter to Senator Stabenow, EPA Administrator Lisa Jackson indicated that she intends to follow the recommendations of EPA staff, stating that she is “prepared to propose the retention – with no revision – of the current PM₁₀ standard and form when it is sent to OMB for interagency review.”¹⁸ Senator Mike Johanns reacted to this news by stating that with this announcement, EPA has provided “unequivocal assurance that it won't attempt to regulate farm dust.”¹⁹ It is in the context of this decision that legislation over so-called “farm dust” must be analyzed.

“Farm Dust” Legislation

Under the fundamentally misleading title of the “Farm Dust Regulation Prevention Act of 2011,” substantively identical bills have been introduced in both the House (H.R. 1633 – the subject of this hearing) and Senate (S. 1528) to block the Environmental Protection Agency from updating health standards for coarse particle pollution. These bills have been presented under the legislative guise of blocking nonexistent and unplanned EPA regulation of so-called “farm dust.”

EPA does *not* require pollution reductions from any specific sources or sectors pursuant to the NAAQS-setting process. The plain language of the Clean Air Act and 40 years of experience setting NAAQS for particulate matter of one size or another make this clear. Precisely for this reason, the claim that EPA is attempting to set standards for “farm dust” is profoundly wrong. As such, bills like H.R. 1633 that attempt to prevent EPA from regulating

¹⁷ U.S. EPA, Policy Assessment for the Review of Particulate Matter National Ambient Air Quality Standards, ES-2 available at <http://www.epa.gov/ttn/naaqs/standards/pm/data/20110419pmpafinal.pdf> (last visited Oct. 20, 2011).

¹⁸ Letter from Lisa Jackson, EPA Administrator, to Senator Debbie Stabenow, U.S. Senator (Oct. 14, 2011) available at <http://epa.gov/pm/pdfs/20111014Stabenow.pdf> (last visited Oct. 20, 2011) (“Stabenow letter”).

¹⁹ Senator Mike Johanns, Press Release: Johanns Applauds EPA Announcement on Farm Dust,” October 17, 2011 available at http://johanns.senate.gov/public/?p=PressReleases&ContentRecord_id=2a744644-4c75-4171-b69b-cff85b0e1ab9 (last visited Oct. 20, 2011).

“farm dust” have unintended consequences that in fact would make it more difficult for rural areas of the country to meet health-based air quality standards.

These bills would deny Americans the right to know if the air is safe to breathe by blocking a scientific and health review of soot standards and, as noted above and discussed below, would force EPA to ignore harmful soot pollution emitted overwhelmingly by industrial polluters like coal-burning power plants, incinerators, chemical plants, and oil refineries, along with diesel vehicles. Not farms, which the bills use as cover for abolishing review of health standards for industrial pollution.

There are no EPA farm dust regulations. There are no such proposed regulations. There are no EPA intentions for such regulations. EPA Administrator Lisa Jackson has specifically disavowed such intentions in Congressional testimony when asked directly by Congress. And just last week, Administrator Jackson announced her intention to propose no change to the PM₁₀ standards pursuant to the mandatory statutory review that had prompted the fact-free hysteria over so-called “farm dust.”²⁰

Legislative Analysis

H.R. 1633 fundamentally rewrites the Clean Air Act to interfere with EPA’s study of the science of coarse particle pollution; introduces a vague and expansive definition of “nuisance dust” that would exempt many types of industrial pollution; and makes it more difficult for states to meet air quality standards.

H.R. 1633 would prevent EPA from examining new science or proposing new standards for soot pollution. EPA has already indicated that it intends to maintain soot pollution standards at current levels, so there is no reason for this legislation to go forward.²¹

²⁰ See Stabenow letter.

²¹ *Id.*

H.R. 1633 would prohibit EPA from conducting the *first* stage of the NAAQS – setting process, as described above – the health standard-setting process. In other words, the bill bars EPA from telling the truth to Americans about the safety of the air we breathe – something that Congress never has done before. So even if Administrator Jackson has announced her intention not to change the current PM10 standards, this legislation is fundamentally misguided. It would set a shameful congressional precedent to subvert valid scientific processes and ratify the deception of Americans about the healthiness of the air that we all must breathe.

EPA does *not* require pollution reductions from any specific sources or sectors pursuant to the NAAQS-setting process. Precisely for this reason, the claim that EPA is attempting to set standards for “farm dust” is profoundly wrong.

H.R. 1633’s purported purpose is to “establish a temporary prohibition against revising any national ambient air quality standard applicable to coarse particulate matter” and “to limit Federal regulation of nuisance dust.” Tellingly, neither of these goals mentions farms or agriculture.

Section-by-Section Analysis

Section 1: The “Short Title” of the legislation is the only place that “farm dust” is mentioned – and this section only lists the bill’s title.

Section 2: This section provides one of the bill’s governing legal prohibitions, and again, does not even *mention* agricultural operations or farm dust, stating:

Before the date that is one year after the date of the enactment of this Act, the Administrator of the Environmental Protection Agency may not propose, finalize, implement, or enforce any regulation revising the national primary ambient air quality standard or the national secondary ambient air quality standard applicable to particulate matter with an aerodynamic diameter greater than 2.5 micrometers under section 109 of the Clean Air Act.

This language plainly takes aim at the first stage of NAAQS review – updated health standards for soot pollution. EPA Administrator Lisa Jackson has announced that EPA will not change the standards for coarse particle pollution at this time.²²

The Clean Air Act requires review of NAAQS every five years, even if no changes are proposed or adopted. EPA’s recent announcement that it will propose to make no change in the NAAQS for coarse particle pollution means that the existing PM₁₀ standard would remain at its 1987 level for (at least) another five years. Notably, the bill’s language (only) blocks EPA from proposing or finalizing revisions to the PM₁₀ NAAQS for one year, meaning Administrator Jackson’s announcement would maintain the current PM₁₀ standard 4 years longer than this bill. EPA’s announcement renders the *stated* rationale for the provision unnecessary, but actually provides greater “certainty” than the bill by an additional 4 years.

The bill does something much more damaging than EPA’s announcement, however, creating what appears to be unintended consequences as a result of poor drafting. The bill goes on to block for one year implementation and enforcement of “any regulation revising” the primary and secondary standards for PM₁₀ without clearly stipulating that such revisions must occur in the future during the one-year ban period. In other words, the bill could be read prevent implementation and enforcement of *past* revisions to the PM₁₀ standards. This includes the most recent revisions to those standards in 2006, by the Bush administration.

In the 2006 review, the Bush administration announced that it would 1) retain current 24-hour PM₁₀ standards at 150 micrograms per cubic meter and 2) that it would revoke the annual PM₁₀ standards set at 50 micrograms per cubic meter.^{23,24} The agency also made a number of

²² See n. 17, Stabenow letter.

²³ See, e.g., *supra*, n.6, 2006 Review Fact Sheet.

²⁴ See *supra* n. 4, *September 2006 Revisions to the National Ambient Air Quality Standards for Particle Pollution, Overview*, at 11.

announcements relating to monitoring. The agency announced a so-called “multi-pollutant”-based approach that removed monitors measuring PM₁₀ if they were “redundant or measuring air quality concentrations well below the level of the 24-hour standard for coarse particle pollution.”²⁵ Also, the federal reference method (FRM) was revised to accompany and facilitate this revised monitoring approach.²⁶ The Agency stated that:

EPA is promulgating a new reference method (FRM) for measurement of mass concentrations of PM_{10-2.5} in the atmosphere. Although NAAQS for PM_{10-2.5} have not been established by EPA, this new FRM will nevertheless be defined as the standard of reference for measurements of PM_{10-2.5} concentrations in ambient air. This should provide a basis for approving Federal Equivalent Methods (FEMs) and promote the gathering of scientific data to support future reviews of the PM NAAQS. One of the reasons for not finalizing a PM_{10-2.5} standard was the limited body of evidence on health effects associated with thoracic coarse particles from studies that use PM_{10-2.5} measurements of ambient thoracic coarse particle concentrations. If an FRM is available, researchers will likely include PM_{10-2.5} measurements of thoracic coarse particles in health studies either by directly using the FRM or by utilizing approved equivalent methods based on the FRM.

In addition, EPA published elsewhere in today’s Federal Register a requirement for a new multi-pollutant monitoring network that takes an integrated approach to air quality measurements. One of the required measurements at these multi-pollutant monitoring stations is PM_{10-2.5}. The availability of an FRM, and subsequently approved equivalent methods for PM_{10-2.5}, will support State and local agencies’ efforts to deploy robust methods at these monitoring stations for the measurement of thoracic coarse particles that do not include fine particles. These multi-pollutant monitoring stations will provide a readily available dataset at approximately 75 urban and rural locations for atmospheric and health researchers to compare particle and gaseous air pollutants.

71 Fed. Reg. 61,144, 61,202 (Oct. 17, 2006).

The changes made to the standards in 2006 constitute a “revision” of coarse particle pollution standards, since the 2006 standards altered previous 1987 standards for the pollution (despite the fact that the 2006 review did not tighten standards for 24-hour coarse particle pollution). As a result, the broad language of section 2 could mean the rollback of clean air

²⁵ U.S. EPA, *Revisions to Ambient Air Monitoring Regulations*, Fact Sheet, available at http://www.epa.gov/pm/pdfs/20060929_factsheet.pdf (last visited Oct. 20, 2011).

²⁶ U.S. EPA, September 2006 Final Amendments to the National Air Quality Monitoring Requirements, Particulate Matter, available at http://www.epa.gov/pm/pdfs/20061025_presentation.pdf (last visited Oct. 20, 2011).

standards and monitoring methods for coarse particle pollution instituted as a result of the 2006 review.

These potential rollbacks, along with EPA's announcement that they will propose to maintain current coarse particle pollution standards for the next NAAQS review should dissuade members of Congress from going forward with this bill. Some members' desire to proceed with this poorly-drafted and damaging legislation reveals H.R. 1633 for what it is – legislation that has nothing to do with protecting farmers or stopping EPA from regulating so-called “farm dust.” Instead, this is just another bill aimed at rewriting and weakening the Clean Air Act to create broad exemptions so that big industrial polluters can pollute our air. The bill's definition of “nuisance dust,” as described more fully *infra*, in section 3, makes clear that this bill would only make it easier for big industrial polluters such as mining sites and oil and gas operations to spew pollution into our air.

Thus, the bill would prevent EPA paradoxically from implementing or enforcing the 2006 EPA revocation of the annual PM₁₀ standard. This has already happened, so who does it matter? Because many states likely have not revised their state implementation plans (SIPs) to remove measures related to an annual PM₁₀ standard, including in preconstruction permitting programs. By the same token, EPA will not have acted to approve those SIP revisions. Accordingly, for at least 1 year following H.R. 1633's enactment, EPA would be prohibited from processing deregulatory SIP revisions or taking any other actions related to the 2006 revision of the PM₁₀ standard.

Section 3: Section 3 of the bill fundamentally rewrites the Clean Air Act to add vague and damaging language to the Act. It also would have the perverse effect of making it

more difficult for states to deliver clean air to their citizens and attain federal health-based air quality standards for PM₁₀ and PM_{2.5}. This section attempts to revive an exemption to PM₁₀ monitoring in rural areas proposed by the Bush administration during the 2006 PM₁₀ NAAQS review that would put many Americans' health at risk.

The language of section 3 would provide EPA a way to set health-based standards for coarse particle pollution if certain conditions are met. This language (proposed section 132(b)(1) and (2)) incorporates a cost-benefit test that would displace the longstanding, exclusive health basis in Clean Air Act section 109's standard-setting process. Further, this language would overturn *Whitman v. American Trucking Associations*, a unanimous Supreme Court decision, with respect to coarse (PM₁₀) and fine (PM_{2.5}) particle pollution.²⁷

Justice Antonin Scalia authored the unanimous opinion for the Court in 2001, writing that the Act prohibits clean air from being defined based upon economics rather than science and medicine. The justices found in *Whitman v. American Trucking Associations* that the plain language of the Clean Air Act disallows cost considerations (like those that H.R 1633 would allow) when deciding how much air pollution is unhealthy for Americans to breathe. For over 41 years, the Clean Air Act has granted Americans the right to clean air. Congress has never overturned this 41-year old basis of clean air standards, and it should not start now.

The bill then adds an exception to the Clean Air Act for "nuisance dust," which is defined as "particulate matter" that is:

- (1) generated from natural sources, unpaved roads, agricultural activities, earth moving, or other activities typically conducted in rural areas, or
- (2) consisting primarily of soil, other natural or biological materials, windblown dust, or some combination thereof.

This definition would have serious and damaging impacts on American citizens' right to breathe clean air. Many key terms in this exemption are entirely undefined, and the

²⁷ 175 F.3d 1027 (2001).

consequences of these vague definitions, taken to their logical conclusions, would mean that large swathes of the country would have significant air pollution problems that would have to be entirely ignored for purposes of meeting federal standards. Further, this “nuisance dust” air pollution would likely come from sources such as power plants, mining operations, other industrial activities, and significant varieties and numbers of motor sources that have nothing to do with farms.

At the outset, analysis of this highly problematic definition and its (likely) unintended consequences must begin with the observation that the definition applies to “particulate matter” under the Clean Air Act, including not just PM₁₀, coarse particles, but PM_{2.5}, fine particles. This is very different from Section 2 of the bill, which applies exclusively to PM₁₀ or “particulate matter with an aerodynamic diameter greater than 2.5 micrometers.” PM_{2.5} is smaller and different than anything commonly understood to be so-called “farm dust,” and PM_{2.5} is emitted overwhelmingly by industrial pollution sources and motor vehicles.²⁸ PM_{2.5} is more hazardous to human health, even deadly, because of its ability to penetrate deep into the lungs and respiratory systems, past the body’s natural defensive systems.²⁹ So the legislative analysis that follows must be understood to extend well beyond anything called “farm dust.”

Undefined Terms

The implications of the bill’s vague language are seen in the entirely undefined term, “rural areas.” Even the United States Department of Agriculture (USDA) acknowledges that there are “different definitions of rural by Federal agencies” that “reflect the multidimensional

²⁸ U.S. EPA, *Particulate Matter*, available at <http://www.epa.gov/oar/particulatepollution/index.html> (last visited Oct. 20, 2011).

²⁹ U.S. EPA, *Health*, available at <http://www.epa.gov/oar/particulatepollution/health.html> (last visited Oct. 20, 2011).

qualities of rural America.”³⁰ A USDA map using 2003 data indicates that two-thirds of the counties in the United States are rural “nonmetropolitan counties.”³¹ The U.S. General Accounting Office, Bureau of the Census, and White House Office of Management and Budget all have different definitions of the term.³² Under most definitions of the term however, rural areas constitute approximately 80% of the land in the United States.

Despite this stunning breadth and coverage, H.R. 1633 nonetheless exempts all “*activities typically conducted in rural areas.*” Most coal-fired power plants are located in nonmetropolitan areas that would qualify as “rural” under some definitions of that term.³³ In addition, all manner of motor vehicle traffic is “typically conducted in rural areas,” from passenger vehicles to commercial vehicles to huge industrial diesel equipment; the bill’s poorly drafted definition would exempt all particulate matter from these activities federal regulation if states were regulating it somehow, subject to the very poorly conceived and new criteria in section 132(b).

A USDA study provides a window into what other types of so-called activities could be encompassed by the expansive definition. For example, the study notes that “the manufacturing sector employs nearly twice as many nonmetro [rural] workers as the farm sector does.”³⁴ Further, a 2006 study found that agricultural jobs account for only 7% of jobs in rural areas.³⁵ The report also found that “[r]ural counties account for 62% of all resource dependent

³⁰ U.S. Department of Agriculture, *What is Rural*, available at http://www.nal.usda.gov/ric/ricpubs/what_is_rural.shtml (last visited Oct. 20, 2011).

³¹ U.S. Department of Agriculture, *An Enhanced Quality of Life for Rural Americans: Rural Gallery*, available at <http://www.ers.usda.gov/Emphases/Rural/Gallery/nonmetrocounties.htm> (last visited Oct. 20, 2011).

³² *Id.*

³³ For example, this document identifies power plants and the counties nationwide where they are located, many if not most of which qualify as “rural” under one of the aforementioned government definitions of that term. U.S. EPA, Clean Air Markets – Data & Maps, report generated at <http://camddataandmaps.epa.gov/gdm/index.cfm> (last visited Oct. 23, 2011)(excel spreadsheet of locations of all U.S. utilities attached).

³⁴ U.S. Department of Agriculture, *Rural Employment at a Glance*, available at <http://www.ers.usda.gov/publications/eib21/eib21.pdf> (last visited Oct. 20, 2011).

³⁵ Michael E. Porter, et al., *Competitiveness in Rural U.S. Regions: Learning and Research Agenda*, Institute for Strategy and Competitiveness, Harvard Business School (2004), at 19 available at http://www.eda.gov/PDF/EDA_Rural_Regions_Final.pdf (last visited Oct. 20, 2011).

employment in the U.S.”³⁶ Resource-dependent employment includes such types of industries as oil and gas extraction, coal mining and metal ore mining. The Bureau of Labor Statistics notes that “in many rural areas, mining operations are the main employer.”³⁷ These numbers indicate that, in contrast to farming “dust,” the type of coarse particle pollution that H.R. 1633 would exclude from EPA regulation would largely consist of particle pollution from industrial and manufacturing operations, motor vehicles, mining operations and many other polluting activities across the American economy.

This legislation provides an irresponsible windfall to industrial polluters across America under the misleading banner of the “Farm Dust Regulation Prevention Act of 2011.” It is not surprising, therefore, in light of these sweeping industrial pollution consequences that today’s witnesses include the “Coarse Particle Coalition.” Its industrial members include “the National Stone, Sand and Gravel Association, the Industrial Minerals Association, the American Forest and Paper Association, the Portland Cement Association and the National Cotton Council.” 71 Fed. Reg. at 61,182.

But today’s witnesses just as easily could have included trade associations for the electric power industry, the oil industry, the chemical industry and others, since the legislation confers an unjustified and undeserved polluting windfall upon these industries too, allowing them to increase emissions of not just coarse PM₁₀ pollution but the deadly, fine PM_{2.5} pollution too. For example, one of the group’s listed members, Kennecott Utah Copper, LLC, has one of the world’s largest open-pit mines, which, as noted *infra*, have been linked to serious health impacts

³⁶ *Id.* at 21-22.

³⁷ Bureau of Labor Statistics, *Mining*, available at <http://www.bls.gov/oco/cg/cgs004.htm> (last visited Oct. 20, 2011).

because of their coarse particle pollution.³⁸

Turning back to the crucial definition of “nuisance dust” in Section 3: this definition is worded in the disjunctive, meaning it covers particulate matter from the aforementioned rural industrial activities “or” particulate matter “consisting primarily of soil, other natural or biological materials, windblown dust, or some combination thereof.” This startlingly expansive definition encompasses virtually all forms of pollution regulated by the Clean Air Act. Take the terms “natural or biological materials.” One commonly used dictionary, *The American Heritage Dictionary of the English Language, Fourth Edition*, defines “natural” as “existing in or formed by nature” and “materials” as “the substance or substances of which a thing is made or composed.” It’s hard to think of many of the air pollutants regulated by the Clean Air Act that do *not* qualify as “natural materials” according to the plain meaning of this term: toxic heavy metals like lead³⁹, mercury⁴⁰, chromium⁴¹ and nickel⁴²; minerals like arsenic and asbestos^{43,44};

³⁸ Kennecott Utah Copper, Bingham Canyon mine, available at <http://www.kennecott.com/> (last visited Oct. 23, 2011).

³⁹ Agency for Toxic Substances and Disease Registry, ToxFAQs, *Lead*, available at <http://www.atsdr.cdc.gov/toxfaqs/TF.asp?id=93&tid=22> (last visited Oct. 23, 2011) (“Lead is a naturally occurring bluish-gray metal found in small amounts in the earth’s crust. Lead can be found in all parts of our environment. Much of it comes from human activities including burning fossil fuels, mining, and manufacturing. . . . Lead can damage the nervous system, kidneys, and reproductive system.”).

⁴⁰ U.S. Department of Labor, Occupational Safety and Health Administration, *Mercury*, available at <http://www.osha.gov/SLTC/mercury/index.html> (last visited Oct. 23, 2011) (“Mercury is naturally occurring and exists in several forms. High mercury exposure results in permanent nervous system and kidney damage. Exposure is most likely to occur during mining, production, and transportation of mercury, as well as mining and refining of gold and silver ores.”).

⁴¹ Agency for Toxic Substances and Disease Registry, ToxFAQs, *Chromium*, available at <http://www.atsdr.cdc.gov/toxfaqs/TF.asp?id=61&tid=17> (last visited Oct. 23, 2011) (“Chromium is a naturally occurring element found in rocks, animals, plants, and soil . . . Chromium can be found in air, soil, and water after release from the manufacture, use, and disposal of chromium-based products, and during the manufacturing process . . . Breathing high levels of chromium(VI) can cause irritation to the lining of the nose, nose ulcers, runny nose, and breathing problems, such as asthma, cough, shortness of breath, or wheezing . . . chromium[] compounds are known human carcinogens. In workers, inhalation of chromium[] has been shown to cause lung cancer.”).

⁴² Agency for Toxic Substances and Disease Registry, ToxFAQs, *Nickel*, available at <http://www.atsdr.cdc.gov/toxfaqs/TF.asp?id=244&tid=44> (last visited Oct. 23, 2011) (“Nickel is a naturally occurring element. . . . Workers who breathed very large amounts of nickel compounds developed chronic bronchitis and lung and nasal sinus cancers.”).

⁴³ U.S. Department of Labor, Occupational Safety and Health Administration, *Arsenic*, available at <http://www.osha.gov/SLTC/arsenic/index.html> (last visited Oct. 20, 2011) (“Arsenic occurs naturally in the environment as an element of the earth’s crust. . . . Exposure to high levels of arsenic can cause death.”).

acid gases like hydrogen chloride⁴⁵; and other by-products of coal or oil combustion. None of these pollutants is synthetic or artificial, the antonyms of natural.

This breathtakingly over-broad sweep is not suggested by the bill's title and does not appear to be intended by the bill's drafters; but this over-inclusiveness is reflected in the bill's poorly drafted and sweeping language.

Next, the bill defines particulate matter that is "windblown dust" as "nuisance dust," which would also qualify for lax treatment under the bill. The term "windblown" is defined simply as "blown by the wind" by the *Merriam Webster Unabridged Dictionary*. "Windblown dust" is not a defined term in the bill, and as virtually all particulate pollution is "windblown," this undefined term would swallow EPA's ability to regulate any particulate pollution, with devastating consequences for public health. As noted above, the poor drafting of section 3 already encompasses both PM_{2.5} and PM₁₀. If all particulate matter, regardless of size, at any point is "blown by the wind," EPA would be largely unable to regulate or set health-based air pollution standards for this pollution.

Real-World Implications of Rewriting the Clean Air Act to Exclude "Nuisance Dust"

The impact of these broad, sweeping exemptions is two-fold. First, as described above, exempting these types of undefined particle pollution (of all sizes) would require EPA to pretend that much of the particle pollution registered by monitors daily does not exist. Second, since pollution from the enumerated categories of "nuisance dust" would be treated as if it didn't exist,

⁴⁴ Agency for Toxic Substances and Disease Registry, ToxFAQs, *Asbestos* <http://www.atsdr.cdc.gov/toxfaqs/TF.asp?id=29&tid=4> (last visited Oct. 23, 2011) ("Asbestos is the name given to a group of six different fibrous minerals . . . that occur naturally in the environment. . . Asbestos exposure can cause serious lung problems and cancer.").

⁴⁵ Agency for Toxic Substances and Disease Registry, ToxFAQs, *Hydrogen Chloride*, available at <http://www.atsdr.cdc.gov/toxfaqs/TF.asp?id=759&tid=147> (last visited Oct. 23, 2011) ("[H]ydrogen chloride is a colorless to slightly yellow, corrosive, nonflammable gas that is heavier than air and has a strong irritating odor. On exposure to air, hydrogen chloride forms dense white corrosive vapors. Hydrogen chloride can be released from volcanoes. . . Exposure to high levels can result in corrosive damage to the eyes, skin, and respiratory tissues, and could lead to pulmonary edema and even death in extreme cases.").

it would be even more difficult, if not impossible, for states with industries whose emissions constitute “nuisance dust” to ever meet federal NAAQS. This is because H.R. 1633 would ignore “nuisance dust” pollution for purposes of federal programs, meaning that states could not get federal credit towards achieving their federal air quality goals for this type of pollution through their state implementation plans. These plans are used by states to attain or maintain compliance with national ambient air quality standards for PM_{2.5} and PM₁₀, among other criteria pollutants. H.R.1633 unaccountably would subvert the ability of states to secure federal “credit” through their SIPs for state laws that address and reduce this type of pollution, even if states have been achieving such credit and even if they have state laws on the books for this purpose. For many states and counties with serious particle pollution from these sources, it would become more burdensome for industries *not* categorized as emitting “nuisance dust,” which now would be compelled to shoulder the burden for achieving even more air pollution reductions to meet federal standards – due solely to the disruptive consequences of this legislation.

This would mean that for areas where particulate pollution comes largely from “nuisance dust” sources, Congress would be unaccountably condemning those areas to a persistent status of “nonattainment” with health-based NAAQS. For example, the Central Valley Air Quality Coalition Steering Committee criticized EPA’s 2006 proposed particulate matter standards for attempting to exclude from health-based standards agricultural and mining operations’ PM₁₀ emissions. The Committee noted that “[b]y carving out the very sources that contribute the bulk of the particulate matter in the San Joaquin Valley (agricultural sources), EPA is all but guaranteeing that the Valley’s air quality will not improve.”⁴⁶ This would leave “the 1.4 million

⁴⁶ Comments to EPA’s Proposal to Revise the National Ambient Air Quality Standards for Particle Pollution and Proposal to Amend its National Air Quality Monitoring Requirements, Central Valley Air Quality Coalition Steering Committee, [EPA-HQ-OAR-2001-0017-2418](#).

rural Valley residents without any protection from dangerous coarse particles.”⁴⁷ And the burden would have fallen to other San Joaquin Valley local businesses to reduce the harmful particulate matter pollution levels necessary to deliver clean air to Valley residents. The Bush administration did not go forward with its proposal.

Further, as noted above, federal NAAQS do not differentiate between sources of particle pollution. Neither do monitors that test levels of particle pollution in the ambient air. Because of this technological reality, there would be no way to differentiate at monitoring sites which pollution comes from sources of “nuisance dust” and which does not. Monitoring and implementation concerns such as those briefly outlined here form the tip of the iceberg in attempting to forecast the damage that H.R. 1633 would cause not only to nationwide air quality, but also the entirety of the Clean Air Act.

The Clean Air Act already excludes air pollution caused by natural events and provides much of the flexibility that this bill appears to seek. The Act already excludes from compliance with clean air standards so-called “exceptional events” that are caused by natural events that affect air quality and are not reasonably controllable or preventable. Natural events include things like high winds, wildfires, dust storms, volcanoes and natural disasters. Air pollution caused or exacerbated by these qualifying activities already is exempt from compliance with health-based clean air standards for soot pollution. In fact, EPA has specifically identified “emissions from mining and agricultural activities” as the types of things that could constitute “exceptional events” and that would be specifically exempted when determining if states attain air quality standards.⁴⁸ Special statutory treatment of “exceptional events” thus ensures that air

⁴⁷ *Id.*

⁴⁸ U.S. EPA, Treatment of Data Influenced by Exceptional Events; Final Rule, 72 Fed. Reg. 13560 *et seq.* (March 22, 2007) available at http://epa.gov/ttncaaa1/t1/fr_notices/exeventfr.pdf (last visited Oct. 20, 2011).

pollution exacerbated by natural events such as dust storms or high winds is not considered when assessing compliance with national health standards for soot pollution or other pollutants.

Health Impact of Exempting “Rural” Particle Pollution

There are very real health consequences to exempting particle pollution from rural areas. In its 2006 review, EPA proposed to have coarse particle standards apply only in “urban” areas dominated by “urban” particulate sources, and no coarse particle pollution standards would have applied at all to mining and agricultural emissions. H.R. 1633 attempts to revive this misguided proposal, but the health concerns present during the 2006 review are still of great concern.

For example, in its comments to the 2006 proposal, “EPA’s Proposal to Waive Clean Air Protection for Millions of Americans: The Politics of Coarse Particle Pollution,” Earthjustice notes that “[t]he assumption that rural coarse particle pollution is not harmful is a false one that is refuted by some of the very epidemiological studies that EPA relies upon in attempting to formulate a rule that applies only to urban areas.”⁴⁹ Studies of Steubenville, Ohio, and Portage, Wisconsin, both areas the the 2006 standards would have considered “rural”, underscored the health consequences of “rural” air pollution. Steubenville, a small steel mill town in Ohio, has approximately 19,000 residents. EPA studies of particulate matter concentrations in Steubenville found statistically significant increase in death rates associated with increases in airborne concentrations of coarse PM.⁵⁰ The study of Portage, Wisconsin showed a similar trend.⁵¹

⁴⁹ Earthjustice, EPA’s Proposal to Waive Clean Air Protection for Millions of Americans: The Politics of Coarse Particle Pollution, Comments to EPA’s proposed “Monitoring Rule,” EPA-HQ-OAR-2004-0018-0245 (Apr. 25, 2006) (“Earthjustice comments”).

⁵⁰ 2 Nat’l Center for Env’tl. Assessment, Env’tl. Protection Agency, Pub. No. EPA/600/P-99/002aF, Air Quality Criteria for Particulate Matter § 8.2.2.3.1, at 8-40 (2004) (citing J. Schwartz, *Daily deaths associated with air pollution in six US cities and short-term mortality displacement in Boston*, in Special Report: Revised Analyses of Time- Series Studies of Air Pollution and Health 219-26 (Health Effects Inst. 2004), available at <http://www.healtheffects.org/Pubs/TimeSeries.pdf>.

⁵¹ Earthjustice comments, at 3.

In another study that took place in Provo, Utah (another rural town with a steel mill), the results showed that “the coarse fraction of PM₁₀ is typically much greater than the fine fraction.”⁵² EPA noted that the Provo study “provides[] . . . supportive evidence for associations between short-term exposure to thoracic coarse particles and health effects, particularly morbidity effects, generally in areas not meeting the PM₁₀ standards.”⁵³ A review of studies of children living near open-pit mines in rural areas found that “the studies support the conclusion that communities living near open-pit mines are exposed to health hazards as a result of ambient concentrations of PM_{10-2.5} arising from those mines.”⁵⁴

In addition to health concerns raised from exposure to particle pollution regardless of content, the EPA 2006 study also surveyed substances that make up particle pollution.

Earthjustice noted that EPA’s results found that:

[A] number of metals found in airborne coarse particulates have been shown by laboratory studies to cause adverse health effects. These include the so-called “transition metals” iron, copper, nickel, cobalt, vanadium, and cadmium, among others. Emissions of particulates containing a number of these metals are associated with the mining and smelting of ores, and the manufacturing of steel and other metal alloys. Certain airborne metal dusts are particularly associated with the combustion of fossil fuels—principally iron (coal) and vanadium (fuel oil).⁵⁵

Arsenic, silica, radioactive wastes from mining and milling processes, and toxins present in resuspended particulate pollution from roads all are found in the particle pollution present in rural areas.⁵⁶ Further, the “proliferation of open-pit surface mining and mountaintop-removal coal mining, and of similarly widespread and destructive methods of mineral extraction, exacerbates these risks and extends them to members of the general public.”⁵⁷ Though, as

⁵² *Id.*

⁵³ See Environmental Protection Agency, Proposed Rule, National Ambient Air Quality Standards for Particulate Matter, 71 Fed. Reg. 2620, 2664 (Jan. 17, 2006).

⁵⁴ Earthjustice comments, at 5, citing *supra*, n. 32.

⁵⁵ Earthjustice comments, at 7.

⁵⁶ *Id.* 7-10.

⁵⁷ *Id.* at 9.

evidenced here, the harmful impact of “rural” particle pollution was well-documented, EPA’s 2006 review could not identify any studies finding that “rural” particle pollution was less dangerous than “urban” particle pollution.

EPA’s announcement that it will delay coarse particle pollution standards provides certainty regarding what the regulatory landscape will be for the next five years. On the other hand, H.R. 1633 causes very real damage. The legislation would rewrite a forty-plus year Clean Air Act obligation to identify clean air standards necessary to protect Americans' health with an adequate margin of safety, including new and undefined terms that could up-end the entire federal-state regulatory scheme that has been working for forty years. It would deny Americans their right to know something as basic as whether the air is safe to breathe. And worst of all, it would allow dangerous industrial pollution from the nation's biggest polluters to hide behind a deceptive industry lobbying campaign to scare farmers and ranchers with an urban myth about EPA regulation of “farm dust” that has time and time again been discredited and disproved.

This legislation proves the wisdom of two legal axioms: bad facts make bad laws, and poorly drafted laws produce unintended consequences. There are no EPA farm dust regulations – planned, proposed or actual – so it should come as little surprise that a law aimed at eliminating a nonexistent problem should be such a damaging bill: sweepingly over-inclusive, creating unintended consequences, causing more problems than it solves, and increasing harmful air pollution and health hazards for the American people.

The Clean Air Act Works and Enjoys Overwhelming Public Support

The Clean Air Act is one of our country’s most successful public health and environmental laws in the past 40 years marking the modern environmental era. The EPA

recently released a report on the health and economic health benefits of the 1990 Clean Air Act amendments, assessed from 1990 to 2020.⁵⁸ The agency found that the Clean Air Act has saved over 160,000 lives every year by the year 2010, and the law will save over 230,000 lives every year by the year 2020.

NRDC analyzed the EPA report beyond the two target years of 2010 and 2020 in order to arrive at a cumulative assessment of the lives saved by the 1990 Clean Air Act Amendments by the year 2020. As summarized by my colleague, Christina Angelides:

NRDC’s own analysis of EPA’s report shows that the 1990 amendments will have cumulatively saved **4.2 million lives** and avoided millions of cases of pollution-related illness by 2020 — including **43.8 million cases of asthma exacerbation, 3.3 million heart attacks, 2.1 million hospital admissions and 2.2 million emergency room visits, and 313 million lost work days**. For comparative purposes, 4.2 million is about the population of the city of Los Angeles.

A more detailed break-down of the avoided healthy impacts is presented in the following table (the blue portion is from the EPA report, while the green reflects NRDC’s additional analysis)⁵⁹:

Avoided Health Impacts (PM2.5 & Ozone Only)*	Pollutants*	Year 2000*	Year 2010*	Year 2020*	Estimated Cumulative Benefits 1990-2020 (NRDC)**
PM 2.5 Adult Mortality	PM	110,000	160,000	230,000	4,105,000
PM 2.5 Infant Mortality	PM	160	230	280	5,645
Ozone Mortality	Ozone	1,400	4,300	7,100	96,700
Chronic Bronchitis	PM	34,000	54,000	75,000	1,333,500
Acute Bronchitis	PM	96,000	130,000	180,000	3,377,000
Non-Fatal Myocardial Infarction	PM	79,000	130,000	200,000	3,301,000
Asthma Exacerbation	PM	1,200,000	1,700,000	2,400,000	43,750,000
Hospital Admissions	PM, Ozone	46,000	86,000	135,000	2,111,500
Emergency Room Visits	PM, Ozone	58,000	86,000	120,000	2,173,000
Restricted Activity Days	PM, Ozone	49,000,000	84,000,000	110,000,000	1,991,000,000
Lost School Days	Ozone	1,200,000	3,200,000	5,400,000	74,500,000
Lost Work Days	PM	8,000,000	13,000,000	17,000,000	313,000,000

*Data from Table 5-6, Environmental Protection Agency, The Benefits and Costs of the Clean Air Act: 1990 to 2020, February 2011, p.5-25.
 **To estimate the cumulative life savings and health benefits of the 1990 amendments from 1990 to 2020, NRDC assumed a roughly linear growth rate to interpolate benefit estimates for each year from 1995--when EPA's Acid Rain Program Phase I began to secure the first benefits under the amendments--through 2010, and benefit estimates for each year from 2010 to 2020. These annual benefit estimates were then aggregated across the entire period.

The Clean Air Act continues to enjoy tremendous support from the American people, as well as our nation’s health and medical professionals. A nationwide poll conducted by Public

⁵⁸ See generally <http://www.epa.gov/air/sect812/prospective2.html>.

⁵⁹ See generally http://switchboard.nrdc.org/blogs/cangelides/the_1990_clean_air_act_will_sa.html.

Policy Polling and released by the NRDC reports how registered voters feel about U.S. House Members' actions to block public health safeguards.

- 64% favor “requiring stricter limits on the amount of smog that vehicles and industrial facilities release.”

In a recent CNN poll conducted by the Opinion Research Corporation from April 9-10, 71% of adult Americans polled responded that the federal government should continue to provide funding to the EPA to enforce regulations on greenhouse gases and other environmental issues. This included 80% of respondents from the Midwest and 71% from the South.

Recent Congressional Attacks on Clean Air Safeguards Are Failing the Public

Today's hearing – and the example of the “farm dust” myth in general, more than any other in the 112th Congress, shows the extent to which some in Congress appear willing to ignore science, misrepresent facts and the law, and harm public health – all in order to carry out an agenda that favors industrial polluters more than farmers or all Americans.

Some members of Congress, like Senator Tim Johnson (D-S.D.) have had the courage and integrity to call bills like H.R. 1633 what they are, “ridiculous and an attempt to scare farmers.”⁶⁰ But too many appear willing ignore forty years of EPA practice, the repeated statements of the EPA administrator, their colleagues, and the facts. These bills evince a concerted determination to weaken the Clean Air Act and force Americans to live with less protective clean air standards against industrial pollution.

The American people deserve better than to see these political favors for polluting interests branded as protecting the American farmer.

⁶⁰ Darren Goode, *Caught in a Dust Storm on EPA bills*, POLITICO, Oct. 10, 2011 available at <http://www.politico.com/news/stories/1011/65575.html> (last visited Oct. 20, 2011).

The Myth of EPA as “Rogue” Agency

Some critics of EPA regulations have charged EPA with being a “rogue” agency. This overheated rhetorical indictment should be dismissed simply because it is leveled invariably when there is a disagreement over the agency’s legal or policy decisions. But to examine the charge more fully, it’s fair to say that it has been based upon two other claims that bear examination in the context of today’s hearing: (1) that EPA is acting outside the scope of statutory authority conferred by Congress; and (2) that EPA is acting precipitously and the current administration is regulating at a much higher regulatory pace than prior administrations. Both of these claims are false.

First, EPA has acted within plain statutory authority in setting standards for coarse particle pollution. Section 109 of the Clean Air Act confers clear authority to set such standards, and the Agency has been following this statutory directive for over 40 years. Second, EPA critics have attacked any and all Agency action by arguing that the current administration is regulating at a much faster, heavier regulatory pace than prior administrations. For example, a November 22, 2010 editorial in the Wall Street Journal charged that the Obama EPA’s regulatory output has outpaced the entire first term of the Clinton Administration implementing the just-enacted 1990 Clean Air Act Amendments. This charge and similar ones are demonstrably false.

EPA Administrator Lisa Jackson has already specifically refuted such charges in an October 14, 2010 letter to Congressmen Barton and Burgess:

The pace of EPA’s Clean Air Act regulatory work under this administration is actually not faster than the pace under either of the two previous administrations. In fact, EPA has finalized or proposed fewer Clean Air Act rules (87) over the past 21 months than in the first two years of either President George W. Bush’s administration (146) or President Clinton’s administration (115).

Further, in the particular context of coarse particle pollution standards, the Agency has reiterated time and time again that it is undertaking a study of these standards pursuant to the normal 5 year review process mandated by the Clean Air Act. EPA has gone to great lengths to dispel the myth of any intent to regulate “farm dust” and to educate members of congress on how the NAAQS-setting process works. EPA has never regulated farm dust, it has disavowed any intent to do so, and the agency has announced that it is not changing standards for coarse particle pollution.

Legislation that aims to prevent EPA from regulating “farm dust” has no bearing on reality or the structure of the Clean Air Act.

STATE	FACILITY_NAME	ORISPL_CO	COUNTY	LATITUDE
AL	AMEA Sylacauga Plant	56018	Talladega	33.1661
AL	Ascend (Decatur Plant)	880041	Morgan	34.6339
AL	BP Amoco Chemical Company	880075	Morgan	34.64
AL	Barry	3	Mobile	31.0069
AL	Bowater Newsprint - Coosa Pines	54216	Talladega	33.3278
AL	Calhoun Power Company I, LLC	55409	Calhoun	33.5883
AL	Charles R Lowman	56	Washington	31.4858
AL	Colbert	47	Colbert	34.7439
AL	Decatur Energy Center	55292	Morgan	34.6292
AL	Discover	55138	Lee	32.5412
AL	E B Harris Generating Plant	7897	Autauga	32.3814
AL	E C Gaston	26	Shelby	33.2442
AL	Gadsden	7	Etowah	34.0128
AL	Gorgas	8	Walker	33.6446
AL	Greene County	10	Greene	32.6017
AL	Hillabee Energy Center	55411	Tallapoosa	33
AL	Hog Bayou Energy Center	55241	Mobile	30.7478
AL	International Paper-Courtland Mill	50245	Lawrence	34.735
AL	International Paper-Prattville Mill	52140	Autauga	32.4167
AL	International Paper-Riverdale Mill	54096	Dallas	32.425
AL	James H Miller Jr	6002	Jefferson	33.6319
AL	McIntosh (7063)	7063	Washington	31.2546
AL	McWilliams	533	Covington	31.4001
AL	MeadWestvaco Coated Board, LLC	54802	Russell	32.175
AL	Morgan Energy Center	55293	Morgan	34.6397
AL	Plant H. Allen Franklin	7710	Lee	32.6094
AL	SABIC Innovative Plastics - Burkville	7698	Lowndes	32.3102
AL	Tenaska Central Alabama Gen Station	55440	Autauga	32.6503
AL	Tenaska Lindsay Hill Generating Station	55271	Autauga	32.6514
AL	Theodore Cogeneration	7721	Mobile	30.5248
AL	US Steel (Fairfield Works)	50730	Jefferson	33.4833
AL	Washington County Cogen (Olin)	7697	Washington	31.2504
AL	Widows Creek	50	Jackson	34.8825
AR	Carl Bailey	202	Woodruff	35.2597
AR	Cecil Lynch	167	Pulaski	34.7535
AR	City Water & Light - City of Jonesboro	56505	Craighead	35.8481
AR	Dell Power Plant	55340	Mississippi	35.8619
AR	Flint Creek Power Plant	6138	Benton	36.2561
AR	Fulton	7825	Hempstead	33.6094
AR	Hamilton Moses	168	Saint Francis	34.9806
AR	Harry D. Mattison Power Plant	56328	Washington	36.1855
AR	Harvey Couch	169	Lafayette	33.3592
AR	Hot Spring Energy Facility	55418	Hot Spring	34.2963
AR	Hot Spring Power Co., LLC	55714	Hot Spring	34.4304
AR	Independence	6641	Independence	35.6733
AR	Lake Catherine	170	Hot Spring	34.4341

AR	McClellan	203 Ouachita	33.5648
AR	Oswald Generating Station	55221 Pulaski	34.5923
AR	Pine Bluff Energy Center	55075 Jefferson	34.2181
AR	Plum Point Energy Station	56456 Mississippi	35.6519
AR	Robert E Ritchie	173 Phillips	34.4629
AR	Thomas Fitzhugh	201 Franklin	35.4617
AR	Union Power Station	55380 Union	33.2961
AR	White Bluff	6009 Jefferson	34.4236
AZ	APS Saguaro Power Plant	118 Pinal	32.5517
AZ	APS West Phoenix Power Plant	117 Maricopa	33.4417
AZ	Agua Fria Generating Station	141 Maricopa	33.5542
AZ	Apache Station	160 Cochise	32.0619
AZ	Arlington Valley Energy Facility	55282 Maricopa	33.3417
AZ	Black Mountain Generating Station	56482 Mohave	35.0534
AZ	Cholla	113 Navajo	34.9394
AZ	Coolidge Generating Station	56948 Pinal	32.9175
AZ	Coronado Generating Station	6177 Apache	34.5778
AZ	De Moss Petrie Generating Station	124 Pima	32.2511
AZ	Desert Basin Generating Station	55129 Pinal	32.9042
AZ	Gila River Power Station	55306 Maricopa	32.9761
AZ	Griffith Energy Project	55124 Mohave	35.0517
AZ	Irvington Generating Station	126 Pima	32.16
AZ	Kyrene Generating Station	147 Maricopa	33.3544
AZ	Mesquite Generating Station	55481 Maricopa	33.344
AZ	Navajo Generating Station	4941 Coconino	36.9047
AZ	New Harquahala Generating Company, LLC	55372 Maricopa	33.4759
AZ	Ocotillo Power Plant	116 Maricopa	33.4225
AZ	Redhawk Generating Facility	55455 Maricopa	33.33
AZ	Santan	8068 Maricopa	33.3333
AZ	South Point Energy Center, LLC	55177 Mohave	34.8678
AZ	Springerville Generating Station	8223 Apache	34.3186
AZ	Sundance Power Plant	55522 Pinal	32.9285
AZ	Yucca Power Plant	120 Yuma	32.7214
CA	AES Alamos	315 Los Angeles	33.7688
CA	AES Huntington Beach	335 Orange	33.6436
CA	AES Redondo Beach	356 Los Angeles	33.8504
CA	Agua Mansa Power	55951 San Bernardino	34.0414
CA	Almond Power Plant	7315 Stanislaus	37.5739
CA	Anaheim Combustion Turbine	7693 Orange	33.8539
CA	Barre Generating Station	56474 Orange	33.8073
CA	Blythe Energy	55295 Riverside	33.6157
CA	Broadway	420 Los Angeles	34.1263
CA	Cabrillo Power I Encina Power Station	302 San Diego	33.1408
CA	CalPeak Power - Border LLC	55510 San Diego	32.5622
CA	CalPeak Power - El Cajon LLC	55512 San Diego	32.7971
CA	CalPeak Power - Enterprise LLC	55513 San Diego	33.1221
CA	CalPeak Power - Panoche LLC	55508 Fresno	36.6531

CA	CalPeak Power - Vaca Dixon LLC	55499 Solano	38.3989
CA	Calpine Gilroy Cogen, LP	10034 Santa Clara	37.0001
CA	Calpine Sutter Energy Center	55112 Sutter	39.0531
CA	Canyon Power Plant	57027 Orange	33.8581
CA	Carson Cogeneration	7527 Sacramento	38.4461
CA	Carson Cogeneration Company	10169 Los Angeles	33.8759
CA	Center Generating Station	56475 Los Angeles	33.9297
CA	Chula Vista Energy Center	55540 San Diego	32.5914
CA	Coalinga Cogeneration Company	50131 Fresno	36.1807
CA	Colusa Generating Station	56532 Colusa	39.3648
CA	Contra Costa Generating Station	228 Contra Costa	38.0184
CA	Coolwater Generating Station	329 San Bernardino	34.8622
CA	Cosumnes Power Plant	55970 Sacramento	38.3461
CA	Creed Energy Center	55625 Solano	38.2419
CA	Delta Energy Center, LLC	55333 Contra Costa	38.0167
CA	Donald Von Raesfeld	56026 Santa Clara	37.3767
CA	El Cajon Energy Center	57001 San Diego	32.7971
CA	El Centro	389 Imperial	32.8022
CA	El Segundo	330 Los Angeles	33.9106
CA	Elk Hills Power	55400 Kern	35.2803
CA	Escondido Energy Center, LLC	55538 San Diego	33.1261
CA	Etiwanda Generating Station	331 San Bernardino	34.0911
CA	Feather River Energy Center	55847 Sutter	39.1088
CA	Fresno Cogeneration Partners, LP	10156 Fresno	36.6183
CA	Gateway Generating Station	56476 Contra Costa	38.0167
CA	Gilroy Energy Center, LLC	55810 Santa Clara	36.999
CA	Gilroy Energy Center, LLC for King City	10294 Monterey	36.225
CA	Glenarm	422 Los Angeles	34.1256
CA	Goose Haven Energy Center	55627 Solano	38.2271
CA	Grapeland Generating Station	56472 San Bernardino	34.09
CA	Grayson Power Plant	377 Los Angeles	34.1556
CA	Greenleaf One	10350 Sutter	39.05
CA	Hanford Energy Park Peaker	55698 Kings	36.2689
CA	Harbor Generating Station	399 Los Angeles	33.7856
CA	Haynes Generating Station	400 Los Angeles	33.7639
CA	Henrietta Peaker Plant	55807 Kings	36.2397
CA	High Desert Power Project	55518 San Bernardino	34.5953
CA	Indigo Generation Facility	55541 Riverside	33.9114
CA	Inland Empire Energy Center	55853 Riverside	33.7393
CA	Kings River Conservation District Malaga	56239 Fresno	36.6894
CA	La Paloma Generating Plant	55151 Kern	35.2956
CA	Lake	7987 Los Angeles	34.1775
CA	Lambie Energy Center	55626 Solano	38.2216
CA	Larkspur Energy Facility	55542 San Diego	32.5672
CA	Long Beach Generating Station	341 Los Angeles	33.7641
CA	Los Esteros Critical Energy Fac	55748 Santa Clara	37.425
CA	Los Medanos Energy Center, LLC	55217 Contra Costa	38.03

CA	Magnolia	56046 Los Angeles	34.1788
CA	Malburg Generating Station	56041 Los Angeles	33.9983
CA	Mandalay Generating Station	345 Ventura	34.2072
CA	Metcalf Energy Center	55393 Santa Clara	37.2169
CA	Mira Loma Generating Station	56473 San Bernardino	34.0054
CA	Miramar Energy Facility	56232 San Diego	32.8769
CA	Morro Bay Power Plant, LLC	259 San Luis Obispo	35.3747
CA	Moss Landing	260 Monterey	36.8042
CA	Mountainview Generating Station	358 San Bernardino	34.0836
CA	NCPA Combustion Turbine Project #2	7449 San Joaquin	38.088
CA	Niland Gas Turbine Plant	56569 Imperial	33.2432
CA	North Island	10812 San Diego	32.705
CA	Olive	6013 Los Angeles	34.1775
CA	Orange Grove Project	56914 San Diego	33.359
CA	Ormond Beach Generating Station	350 Ventura	34.1292
CA	Otay Mesa Energy Center, LLC	55345 San Diego	32.5733
CA	Palomar Energy Center	55985 San Diego	33.1192
CA	Panoche Energy Center	56803 Fresno	36.6513
CA	Pastoria Energy Facility	55656 Kern	34.9556
CA	Pittsburg Generating Station (CA)	271 Contra Costa	38.0392
CA	Potrero Generating Station	273 San Francisco	37.7558
CA	Redding Power Plant	7307 Shasta	40.5083
CA	Ripon Generation Station	56135 Stanislaus	37.7315
CA	Riverside Energy Resource Center	56143 Riverside	33.9636
CA	Riverview Energy Center	55963 Contra Costa	38.0139
CA	Roseville Energy Park	56298 Placer	38.7926
CA	SCA Cogen II	7551 Sacramento	38.5306
CA	Sacramento Power Authority Cogen	7552 Sacramento	38.511
CA	Salinas River Cogeneration Company	50865 Monterey	35.9515
CA	Sargent Canyon Cogen Company	50864 Monterey	35.9359
CA	Scattergood Generating Station	404 Los Angeles	33.9175
CA	Starwood Power Midway, LLC	56639 Fresno	36.654
CA	Sunrise Power Company	55182 Kern	35.2097
CA	Tracy Peaker	55933 San Joaquin	37.7107
CA	Valley Gen Station	408 Los Angeles	34.2481
CA	Walnut Energy Center	56078 Stanislaus	37.4878
CA	Wellhead Power Gates, LLC	55875 Fresno	36.1522
CA	Wolfskill Energy Center	55855 Solano	38.2282
CA	Woodland Generation Station	7266 Stanislaus	37.6528
CA	Yuba City Energy Center	10349 Sutter	39.1365
CO	Arapahoe	465 Denver	39.67
CO	Arapahoe Combustion Turbine Facility	55200 Denver	39.6692
CO	Blue Spruce Energy Center	55645 Adams	39.7436
CO	Brush Power Projects	10682 Morgan	40.2415
CO	Cherokee	469 Adams	39.8034
CO	Comanche (470)	470 Pueblo	38.2081
CO	Craig	6021 Moffat	40.4627

CO	Fort Lupton Cogeneration Facility	50707 Weld	40.0979
CO	Fort St. Vrain	6112 Weld	40.2461
CO	Fountain Valley Power Plant	55453 El Paso	38.5569
CO	Frank Knutson Station	55505 Adams	39.9414
CO	Front Range Power Plant	55283 El Paso	38.6281
CO	Hayden	525 Routt	40.4856
CO	Lamar	508 Prowers	38.0921
CO	Limon Generating Station	55504 Lincoln	39.2038
CO	Manchief Generating Station	55127 Morgan	40.2179
CO	Martin Drake	492 El Paso	38.8244
CO	Nucla	527 Montrose	38.2387
CO	Pawnee	6248 Morgan	40.2217
CO	Rawhide Energy Station	6761 Larimer	40.8611
CO	Ray D Nixon	8219 El Paso	38.6306
CO	Rocky Mountain Energy Center	55835 Weld	40.0911
CO	Spindle Hill Energy Center	56445 Weld	40.0914
CO	Valmont	477 Boulder	40.0195
CO	Valmont Combustion Turbine Facility	55207 Boulder	40.0197
CO	Zuni	478 Denver	39.7369
CT	AES Thames	10675 New London	41.4282
CT	Alfred L Pierce Generating Station	6635 New Haven	41.4485
CT	Algonquin Power Windsor Locks, LLC	10567 Hartford	41.9227
CT	Branford	540 New Haven	41.2925
CT	Bridgeport Energy	55042 Fairfield	41.1692
CT	Bridgeport Harbor Station	568 Fairfield	41.1706
CT	Capitol District Energy Center	50498 Hartford	41.7639
CT	Cos Cob	542 Fairfield	41.0289
CT	Devon	544 New Haven	41.2083
CT	Franklin Drive	561 Litchfield	41.7994
CT	Fusion Paperboard Connecticut LLC	54657 New London	41.6242
CT	Kleen Energy Systems Project	56798 Middlesex	41.5551
CT	Lake Road Generating Company	55149 Windham	41.8736
CT	Middletown	562 Middlesex	41.5544
CT	Milford Power Company LLC	55126 New Haven	41.2239
CT	Montville	546 New London	41.4281
CT	New Haven Harbor	6156 New Haven	41.2836
CT	Norwalk Harbor Station	548 Fairfield	41.0732
CT	Norwich	581 New London	41.5269
CT	Pfizer	54236 New London	41.3319
CT	Pratt & Whitney, East Hartford	54605 Hartford	41.75
CT	ReEnergy Sterling Energy Facility	50736 Windham	41.7132
CT	South Meadow Station	563 Hartford	41.7495
CT	Torrington Terminal	565 Litchfield	41.7761
CT	Tunnel	557 New London	41.5553
CT	Wallingford Energy, LLC	55517 New Haven	41.4486
CT	Waterbury Generation	56629 New Haven	41.5444
CT	Waterside Power, LLC	56189 Fairfield	41.0372

DC	Benning Generation Station	603 District of Columbia	38.8994
DC	GSA Central Heating	880004 District of Columbia	38.8856
DE	Christiana Substation	591 New Castle	39.7302
DE	Delaware City	592 New Castle	39.5881
DE	Delaware City Refinery	52193 New Castle	39.5936
DE	Edge Moor	593 New Castle	39.7372
DE	Hay Road	7153 New Castle	39.7436
DE	Indian River	594 Sussex	38.5857
DE	McKee Run	599 Kent	39.1748
DE	NRG Energy Center Dover	10030 Kent	39.1467
DE	Van Sant	7318 Kent	39.15
DE	Warren F. Sam Beasley Pwr Station	7962 Kent	39.2798
DE	West Substation	597 New Castle	39.7283
FL	Anclote	8048 Pasco	28.1844
FL	Arvah B Hopkins	688 Leon	30.4522
FL	Auburndale Cogeneration Facility	54658 Polk	28.0542
FL	Auburndale Peaker Energy Center	55833 Polk	28.0534
FL	Avon Park	624 Highlands	27.5792
FL	Bayboro	627 Pinellas	27.7578
FL	Bayside Power Station	7873 Hillsborough	27.9072
FL	Big Bend	645 Hillsborough	27.7944
FL	Brandy Branch	7846 Duval	30.3206
FL	C D McIntosh Jr Power Plant	676 Polk	28.0809
FL	Cane Island	7238 Osceola	28.2764
FL	Cedar Bay Generating Co. LP	10672 Duval	30.4219
FL	Central Power & Lime	10333 Hernando	28.5814
FL	Charles Larsen Memorial Power Plant	675 Polk	28.0797
FL	Crist Electric Generating Plant	641 Escambia	30.5661
FL	Crystal River	628 Citrus	28.9594
FL	Curtis H. Stanton Energy Center	564 Orange	28.4836
FL	Cutler	610 Miami-Dade	25.6321
FL	Debary	6046 Volusia	28.9047
FL	Deerhaven	663 Alachua	29.7586
FL	Desoto County Energy Park	55422 DeSoto	27.2272
FL	Fort Myers	612 Lee	26.6967
FL	G E Turner	629 Volusia	28.8689
FL	Greenland Energy Center	56799 Duval	30.1603
FL	Hardee Power Station	50949 Hardee	27.6364
FL	Higgins	630 Pinellas	28.0037
FL	Hines Energy Complex	7302 Polk	27.7886
FL	Indian River (55318)	55318 Brevard	28.4933
FL	Indian River (683)	683 Brevard	28.4933
FL	Indiantown Cogeneration, LP	50976 Martin	27.0393
FL	Intercession City	8049 Osceola	28.2628
FL	J D Kennedy	666 Duval	30.3644
FL	J R Kelly	664 Alachua	29.6467
FL	Lake Cogeneration	54423 Lake	28.9158

FL	Lansing Smith Generating Plant	643 Bay	30.2689
FL	Lauderdale	613 Broward	26.0681
FL	Manatee	6042 Manatee	27.6058
FL	Martin	6043 Martin	27.0536
FL	Midulla Generating Station	7380 Hardee	27.6417
FL	Mulberry Cogeneration Facility	54426 Polk	27.8489
FL	Northside	667 Duval	30.4172
FL	Oleander Power Project	55286 Brevard	28.3661
FL	Orange Cogeneration Facility	54365 Polk	27.8708
FL	Orlando CoGen	54466 Orange	28.4422
FL	Osceola	55192 Osceola	28.1289
FL	Osprey Energy Center	55412 Polk	28.0525
FL	P L Bartow	634 Pinellas	27.8613
FL	Pasco Cogeneration	54424 Pasco	28.3744
FL	Polk	7242 Polk	27.7286
FL	Port Everglades	617 Broward	26.0856
FL	Putnam	6246 Putnam	29.6283
FL	Reedy Creek	7254 Orange	28.4272
FL	Ridge Generating Station	54529 Polk	28.0271
FL	Riviera	619 Palm Beach	26.7653
FL	Roy E Hansel Power Plant	672 Osceola	28.2908
FL	S O Purdom	689 Wakulla	30.1619
FL	Sanford	620 Volusia	28.8419
FL	Santa Rosa Energy Center	55242 Santa Rosa	30.5661
FL	Scholz Electric Generating Plant	642 Jackson	30.6689
FL	Seminole (136)	136 Putnam	29.7333
FL	Shady Hills	55414 Pasco	28.3665
FL	St. Johns River Power	207 Duval	30.4311
FL	Stanton A	55821 Orange	28.4881
FL	Stock Island	6584 Monroe	24.5636
FL	Suwannee River	638 Suwannee	30.3764
FL	Tiger Bay	7699 Polk	27.7447
FL	Tom G Smith	673 Palm Beach	26.6125
FL	Treasure Coast Energy Center	56400 Saint Lucie	27.3839
FL	Turkey Point	621 Miami-Dade	25.4356
FL	University of Florida	7345 Alachua	29.6397
FL	Vandolah Power Project	55415 Hardee	27.5242
FL	Vero Beach Municipal	693 Indian River	27.6311
FL	West County Energy Center	56407 Palm Beach	26.6986
GA	AL Sandersville	55672 Washington	33.1189
GA	Allen B Wilson Combustion Turbine Plant	6258 Burke	33.138
GA	Baconton	55304 Mitchell	31.3869
GA	Bowen	703 Bartow	34.1256
GA	Chattahoochee Energy Facility	7917 Heard	33.407
GA	Dahlberg (Jackson County)	7765 Jackson	34.0386
GA	Doyle Generating Facility	55244 Walton	33.8376
GA	Effingham County Power, LLC	55406 Effingham	32.2792

GA	Hammond	708 Floyd	34.2533
GA	Harlee Branch	709 Putnam	33.1942
GA	Hartwell Energy Facility	70454 Hart	34.3387
GA	Hawk Road Energy Facility	55141 Heard	33.3577
GA	Jack McDonough	710 Cobb	33.8244
GA	Kraft	733 Chatham	32.1486
GA	MPC Generating, LLC	7764 Walton	33.8122
GA	McIntosh (6124)	6124 Effingham	32.3558
GA	McIntosh Combined Cycle Facility	56150 Effingham	32.3478
GA	McManus	715 Glynn	31.2125
GA	Mid-Georgia Cogeneration	55040 Houston	32.4853
GA	Mitchell (GA)	727 Dougherty	31.4444
GA	Murray Energy Facility	55382 Murray	34.7094
GA	Robins	7348 Houston	32.5806
GA	SEGCO Bainbridge	56015 Decatur	30.9111
GA	Scherer	6257 Monroe	33.0583
GA	Sewell Creek Energy	7813 Polk	33.9486
GA	Smarr Energy Facility	7829 Monroe	32.9856
GA	Sowega Power Project	7768 Mitchell	31.3869
GA	Talbot Energy Facility	7916 Talbot	32.5892
GA	Tenaska Georgia Generating Station	55061 Heard	33.3516
GA	Walton County Power, LLC	55128 Walton	33.8147
GA	Wansley (6052)	6052 Heard	33.4124
GA	Wansley (7946)	7946 Heard	33.4082
GA	Washington County Power, LLC	55332 Washington	33.0917
GA	West Georgia Generating Facility	55267 Upson	32.911
GA	Yates	728 Coweta	33.4622
IA	Ames	1122 Story	42.0247
IA	Burlington (IA)	1104 Des Moines	40.7412
IA	Centerville	1105 Appanoose	40.7478
IA	Dayton Avenue Substation	6463 Story	42.0269
IA	Dubuque	1046 Dubuque	42.506
IA	Earl F Wisdom	1217 Clay	43.1606
IA	Electrifarm	6063 Black Hawk	42.4407
IA	Emery Station	8031 Cerro Gordo	43.094
IA	Exira Station	56013 Audubon	41.5131
IA	Fair Station	1218 Muscatine	41.4569
IA	George Neal North	1091 Woodbury	42.2996
IA	George Neal South	7343 Woodbury	42.3022
IA	Greater Des Moines Energy Center	7985 Polk	41.5563
IA	Grinnell	7137 Poweshiek	41.7529
IA	Lansing	1047 Allamakee	43.3359
IA	Lime Creek	7155 Cerro Gordo	43.2481
IA	Louisa	6664 Louisa	41.3153
IA	Marshalltown CTs	1068 Marshall	42.0474
IA	Milton L Kapp	1048 Clinton	41.8081
IA	Muscatine	1167 Muscatine	41.3917

IA	Ottumwa	6254 Wapello	41.0961
IA	Pella	1175 Marion	41.3981
IA	Pleasant Hill Energy Center	7145 Polk	41.5572
IA	Prairie Creek	1073 Linn	41.9439
IA	Riverside (1081)	1081 Scott	41.5404
IA	Streeter Station	1131 Black Hawk	42.5267
IA	Summit Lake	1206 Union	41.1141
IA	Sutherland	1077 Marshall	42.0472
IA	Sycamore Combustion Turbine	8029 Polk	41.6722
IA	Walter Scott Jr. Energy Center	1082 Pottawattamie	41.18
ID	Bennett Mountain Power Project	55733 Elmore	43.1747
ID	Evander Andrews Power Complex	7953 Elmore	43.1794
ID	Rathdrum Combustion Turbine Project	7456 Kootenai	47.8034
ID	Rathdrum Power, LLC	55179 Kootenai	47.7861
IL	Aalsey Station	7818 Scott	39.5606
IL	Archer Daniels Midland Co.	10865 Macon	39.8675
IL	Archer Daniels Midland Co. - Peoria	10866 Peoria	40.6776
IL	Aurora	55279 DuPage	41.8151
IL	Aventine Renewable Energy, Inc.	880086 Tazewell	40.555
IL	Baldwin Energy Complex	889 Randolph	38.205
IL	Calumet Energy Team, LLC	55296 Cook	41.6835
IL	Coffeen	861 Montgomery	39.0586
IL	Cordova Energy Company	55188 Rock Island	41.7146
IL	Corn Products International, Inc.	54556 Cook	41.7775
IL	Crawford	867 Cook	41.8278
IL	Crete Energy Park	55253 Will	41.4297
IL	Dallman	963 Sangamon	39.7539
IL	Duck Creek	6016 Fulton	40.4663
IL	Duke Energy Lee, II LLC	55236 Lee	41.8287
IL	E D Edwards	856 Peoria	40.5958
IL	Elgin Energy Center	55438 Cook	41.9997
IL	Elwood Energy Facility	55199 Will	41.4388
IL	Equistar Tuscola Plant	55245 Douglas	39.7983
IL	Exxonmobil Oil Corporation	50627 Will	41.4167
IL	Factory Gas Turbine	8016 Sangamon	39.8266
IL	Fisk	886 Cook	41.8508
IL	Flint Hills Resources, - Joliet Plant	880089 Will	41.4417
IL	Freedom Power Project	7842 Fayette	39.1025
IL	Geneva Energy, LLC	55174 Cook	41.5001
IL	Gibson City Power Plant	55201 Ford	40.4705
IL	Goose Creek Power Plant	55496 Piatt	40.1083
IL	Grand Tower	862 Jackson	37.6578
IL	Havana	891 Mason	40.2797
IL	Hennepin Power Station	892 Putnam	41.3017
IL	Holland Energy Facility	55334 Shelby	39.2242
IL	Hutsonville	863 Crawford	39.1333
IL	Interstate	7425 Sangamon	39.8233

IL	Joliet 29	384 Will	41.4947
IL	Joliet 9	874 Will	41.4931
IL	Joppa Steam	887 Massac	37.2103
IL	Kendall Energy Facility	55131 Kendall	41.4797
IL	Kincaid Station	876 Christian	39.5906
IL	Kinmundy Power Plant	55204 Marion	38.7619
IL	LSP University Park, LLC	55640 Will	41.4426
IL	Lemont Refinery	880076 Will	41.6439
IL	Lincoln Generating Facility	55222 Will	41.3937
IL	MEPI Gt Facility	7858 Massac	37.2175
IL	Marathon Petroleum Company LP	880088 Crawford	39
IL	Marion	976 Williamson	37.6206
IL	Meredosia	864 Morgan	39.8194
IL	Morris Cogeneration, LLC	55216 Grundy	41.4092
IL	NRG Rockford Energy Center	55238 Winnebago	42.2403
IL	NRG Rockford II Energy Center	55936 Winnebago	42.2383
IL	Newton	6017 Jasper	38.9361
IL	Pinckneyville Power Plant	55202 Perry	38.1114
IL	Powerton	879 Tazewell	40.5408
IL	Raccoon Creek Power Plant	55417 Clay	38.6996
IL	Rocky Road Power, LLC	55109 Kane	42.0931
IL	Shelby County	55237 Shelby	39.2794
IL	Southeast Chicago Energy Project	55281 Cook	41.7181
IL	Tate & Lyle	10867 Macon	39.8466
IL	Tilton Power Station	7760 Vermilion	40.1063
IL	University Park Energy	55250 Will	41.4405
IL	Venice	913 Madison	38.6642
IL	Vermilion Power Station	897 Vermilion	40.1781
IL	Waukegan	883 Lake	42.3833
IL	Will County	884 Will	41.6334
IL	Wood River Power Station	898 Madison	38.8639
IL	Wood River Refinery	880067 Madison	38.8375
IL	Zion Energy Center	55392 Lake	42.4776
IN	A B Brown Generating Station	6137 Posey	37.9053
IN	Alcoa Allowance Management Inc	6705 Warrick	37.915
IN	Anderson	7336 Madison	40.0529
IN	BP Whiting Business Unit	52130 Lake	41.6703
IN	Bailly Generating Station	995 Porter	41.6433
IN	Broadway Avenue Generating Station	1011 Vanderburgh	37.9694
IN	C. C. Perry K Steam Plant	992 Marion	39.7622
IN	Cayuga	1001 Vermillion	39.9239
IN	Clifty Creek	983 Jefferson	38.7383
IN	Connersville Peaking Station	1002 Fayette	39.6561
IN	Dean H Mitchell Generating Station	996 Lake	41.6394
IN	Duke Energy Vermillion, II LLC	55111 Vermillion	39.9208
IN	Edwardsport	1004 Knox	38.8067
IN	F B Culley Generating Station	1012 Warrick	37.91

IN	Frank E Ratts	1043 Pike	38.5201
IN	Georgetown Substation	7759 Marion	39.9022
IN	Gibson	6113 Gibson	38.3722
IN	Harding Street Station (EW Stout)	990 Marion	39.7119
IN	Henry County Generating Station	7763 Henry	39.9528
IN	Hoosier Energy Lawrence Co Station	7948 Lawrence	38.8003
IN	IPL Eagle Valley Generating Station	991 Morgan	39.4851
IN	Lawrenceburg Energy Facility	55502 Dearborn	39.0913
IN	Merom	6213 Sullivan	39.0694
IN	Michigan City Generating Station	997 LaPorte	41.7203
IN	Mittal Steel USA - Indiana Harbor East	10474 Lake	41.68
IN	Montpelier Electric Gen Station	55229 Wells	40.6206
IN	New Energy Corp	880087 Saint Joseph	41.6552
IN	Noblesville	1007 Hamilton	40.0969
IN	Petersburg	994 Pike	38.5267
IN	Portside Energy	55096 Porter	41.6317
IN	Purdue University-Wade Utility	50240 Tippecanoe	40.4172
IN	R Gallagher	1008 Floyd	38.2636
IN	R M Schahfer Generating Station	6085 Jasper	41.2175
IN	Richmond (IN)	7335 Wayne	39.8383
IN	Rockport	6166 Spencer	37.9256
IN	State Line Generating Station (IN)	981 Lake	41.7072
IN	Sugar Creek Generating Station	55364 Vigo	39.3922
IN	Tanners Creek	988 Dearborn	39.0831
IN	US Steel Corp - Gary Works	50733 Lake	41.6133
IN	Wabash River Gen Station	1010 Vigo	39.53
IN	Wheatland Generating Facility LLC	55224 Knox	38.6716
IN	Whitewater Valley	1040 Wayne	39.8028
IN	Whiting Clean Energy, Inc.	55259 Lake	41.6739
IN	Worthington Generation	55148 Greene	39.0717
KS	Chanute 2	1268 Neosho	37.6953
KS	Cimarron River	1230 Seward	37.1611
KS	Coffeyville	1271 Montgomery	37.0456
KS	East 12th Street	7013 Cowley	37.2376
KS	Emporia Energy Center	56502 Lyon	38.4464
KS	Fort Dodge aka Judson Large	1233 Ford	37.7328
KS	Garden City	1336 Finney	37.9703
KS	Gordon Evans Energy Center	1240 Sedgwick	37.7903
KS	Great Bend Station aka Arthur Mullergren	1235 Barton	38.41
KS	Holcomb	108 Finney	37.9306
KS	Hutchinson Energy Center	1248 Reno	38.0906
KS	Jeffrey Energy Center	6068 Pottawatomie	39.2825
KS	La Cygne	1241 Linn	38.3472
KS	Lawrence Energy Center	1250 Douglas	39.0072
KS	McPherson Municipal Power Plant #3	7515 McPherson	38.3864
KS	Murray Gill Energy Center	1242 Sedgwick	37.5956
KS	Nearman Creek	6064 Wyandotte	39.1714

KS	Neosho Energy Center	1243 Labette	37.3062
KS	Osawatomie Generating Station	7928 Miami	38.5325
KS	Quindaro	1295 Wyandotte	39.1486
KS	Riverton	1239 Cherokee	37.0719
KS	Tecumseh Energy Center	1252 Shawnee	39.0522
KS	West Gardner Generating Station	7929 Johnson	38.7878
KY	Big Sandy	1353 Lawrence	38.1707
KY	Bluegrass Generation Company, LLC	55164 Oldham	38.3902
KY	Cane Run	1363 Jefferson	38.1828
KY	Coleman	1381 Hancock	37.9628
KY	D B Wilson	6823 Ohio	37.4497
KY	DTE Calvert City, LLC	55308 Marshall	37.0467
KY	E W Brown	1355 Mercer	37.7889
KY	East Bend	6018 Boone	38.9031
KY	Elmer Smith	1374 Daviess	37.7958
KY	Ghent	1356 Carroll	38.7497
KY	Green River	1357 Muhlenberg	37.3636
KY	H L Spurlock	6041 Mason	38.7
KY	HMP&L Station 2	1382 Henderson	37.6472
KY	John S. Cooper	1384 Pulaski	37
KY	Marshall	55232 Marshall	37.0286
KY	Mill Creek	1364 Jefferson	38.0531
KY	Paddy's Run	1366 Jefferson	38.2147
KY	Paducah Power Systems Plant 1	56556 McCracken	37.0339
KY	Paradise	1378 Muhlenberg	37.2608
KY	R D Green	6639 Webster	37.6467
KY	Riverside Generating Company	55198 Lawrence	38.1933
KY	Robert Reid	1383 Webster	37.6467
KY	Shawnee	1379 McCracken	37.1517
KY	Smith Generating Facility	54 Clark	37.8824
KY	Trimble County	6071 Trimble	38.5847
KY	Tyrone	1361 Woodford	38.0478
KY	Wickliffe Paper Company	880065 Ballard	36.9461
KY	William C. Dale	1385 Clark	37.8807
LA	Acadia Power Station	55173 Acadia	30.4284
LA	Arsenal Hill Power Plant	1416 Caddo	32.5181
LA	Bayou Cove Peaking Power Plant	55433 Acadia	30.2825
LA	Big Cajun 1	1464 Pointe Coupee	30.6736
LA	Big Cajun 2	6055 Pointe Coupee	30.7261
LA	Brame Energy Center	6190 Rapides	31.395
LA	Calcasieu Plant	55165 Calcasieu	30.1603
LA	Carville Energy Center	55404 Iberville	30.2292
LA	Coughlin Power Station	1396 Evangeline	30.8442
LA	D G Hunter	6558 Rapides	31.321
LA	Doc Bonin	1443 Lafayette	30.2368
LA	Dolet Hills Power Station	51 De Soto	32.0306
LA	Hargis-Hebert Electric Generating Statio	56283 Lafayette	30.1694

LA	Houma	1439 Terrebonne	29.5808
LA	Lieberman Power Plant	1417 Caddo	32.7047
LA	Little Gypsy	1402 Saint Charles	30.0033
LA	Louisiana 1	1391 East Baton Rouge	30.4903
LA	Michoud	1409 Orleans	30.0081
LA	Morgan City Electrical Gen Facility	1449 Saint Mary	29.6916
LA	Nelson Industrial Steam Company	50030 Calcasieu	30.2861
LA	Ninemile Point	1403 Jefferson	29.9472
LA	Ouachita Plant	55467 Ouachita	32.7056
LA	Perryville Power Station	55620 Ouachita	32.6914
LA	Plaquemine Cogen Facility	55419 Iberville	30.3215
LA	R S Cogen	55117 Calcasieu	30.221
LA	R S Nelson	1393 Calcasieu	30.2861
LA	Sterlington	1404 Ouachita	32.7047
LA	T J Labbe Electric Generating Station	56108 Lafayette	30.2554
LA	Taft Cogeneration Facility	55089 Saint Charles	29.9861
LA	Teche Power Station	1400 Saint Mary	29.8223
LA	Waterford 1 & 2	8056 Saint Charles	29.9994
LA	Willow Glen	1394 Iberville	30.2743
MA	ANP Bellingham Energy Company, LLC	55211 Norfolk	42.1113
MA	ANP Blackstone Energy Company, LLC	55212 Worcester	42.0575
MA	Bellingham	10307 Norfolk	42.0925
MA	Berkshire Power	55041 Hampden	42.0476
MA	Blackstone	1594 Middlesex	42.3636
MA	Brayton Point	1619 Bristol	41.7125
MA	Canal Station	1599 Barnstable	41.7694
MA	Cleary Flood	1682 Bristol	41.8653
MA	Dartmouth Power	52026 Bristol	41.6728
MA	Deer Island Treatment	10823 Suffolk	42.3497
MA	Dighton	55026 Bristol	41.8312
MA	Doreen	1631 Berkshire	42.4431
MA	Fore River Station	55317 Norfolk	42.2417
MA	Framingham Station	1586 Middlesex	42.2672
MA	General Electric Aircraft	10029 Essex	42.45
MA	Kendall Square	1595 Middlesex	42.3633
MA	Kneeland Station	880023 Suffolk	42.35
MA	L'Energia Energy Center	54586 Middlesex	42.6308
MA	Lowell Cogeneration Company	10802 Middlesex	42.64
MA	MASSPOWER	10726 Hampden	42.156
MA	MIT Central Utility Plant	54907 Middlesex	42.3611
MA	Medway Station	1592 Norfolk	42.1364
MA	Milford Power, LP	54805 Worcester	42.1292
MA	Millennium Power Partners	55079 Worcester	42.1127
MA	Mount Tom	1606 Hampden	42.2814
MA	Mystic	1588 Middlesex	42.3917
MA	New Boston	1589 Suffolk	42.3406
MA	Pittsfield Generating	50002 Berkshire	42.4564

MA	Potter	1660 Norfolk	42.235
MA	Salem Harbor	1626 Essex	42.5267
MA	Somerset	1613 Bristol	41.737
MA	South Boston Combustion Turbines	10176 Suffolk	42.3414
MA	Stony Brook	6081 Hampden	42.1977
MA	Waters River	1678 Essex	42.5428
MA	West Springfield	1642 Hampden	42.0956
MA	Woodland Road	1643 Berkshire	42.3362
MD	AES Warrior Run	10678 Allegany	39.5944
MD	Brandon Shores	602 Anne Arundel	39.1792
MD	C P Crane	1552 Baltimore	39.3269
MD	Chalk Point	1571 Prince George's	38.5444
MD	Dickerson	1572 Montgomery	39.2086
MD	Gould Street	1553 Baltimore (City)	39.2661
MD	Herbert A Wagner	1554 Anne Arundel	39.1781
MD	Luke Paper Company	50282 Allegany	39.4722
MD	Morgantown	1573 Charles	38.3592
MD	Panda Brandywine	54832 Prince George's	38.6681
MD	Perryman	1556 Harford	39.4422
MD	R. Paul Smith Power Station	1570 Washington	39.595
MD	Riverside	1559 Baltimore	39.2369
MD	Rock Springs Generating Facility	7835 Cecil	39.7183
MD	Severstal Sparrows Point LLC	10485 Baltimore	39.2135
MD	Vienna	1564 Dorchester	38.4878
MD	Westport	1560 Baltimore (City)	39.27
ME	Androscoggin Energy	55031 Franklin	44.5047
ME	Bucksport Clean Energy	50243 Hancock	44.5739
ME	Maine Independence Station	55068 Penobscot	44.8236
ME	Rumford Power	55100 Oxford	44.5303
ME	Westbrook Energy Center	55294 Cumberland	43.6576
ME	William F Wyman	1507 Cumberland	43.75
MI	48th Street Peaking Station	7258 Allegan	42.7553
MI	B C Cobb	1695 Muskegon	43.2542
MI	Belle River	6034 Saint Clair	42.7748
MI	Cadillac Renewable Energy	54415 Wexford	44.2634
MI	Conners Creek	1726 Wayne	42.3597
MI	DTE East China	55718 Saint Clair	42.774
MI	DTE Pontiac North LLC	10111 Oakland	42.6564
MI	Dan E Karn	1702 Bay	43.6425
MI	Dearborn Industrial Generation	55088 Wayne	42.3026
MI	Delray	1728 Wayne	42.2947
MI	Eckert Station	1831 Ingham	42.7183
MI	Endicott Generating	4259 Hillsdale	42.0317
MI	Erickson	1832 Eaton	42.6919
MI	Genesee Power Station	54751 Genesee	43.0841
MI	Graphic Packaging International, Inc.	10698 Kalamazoo	42.3049
MI	Grayling Generating Station	10822 Crawford	44.6062

MI	Greenwood	6035 Saint Clair	43.1056
MI	Hancock Peakers	1730 Oakland	42.5497
MI	Harbor Beach	1731 Huron	43.8519
MI	J B Sims	1825 Ottawa	43.0722
MI	J C Weadock	1720 Bay	43.6425
MI	J H Campbell	1710 Ottawa	42.9103
MI	J R Whiting	1723 Monroe	41.7917
MI	Jackson MI Facility	55270 Jackson	42.2488
MI	James De Young	1830 Ottawa	42.7956
MI	Kalamazoo River Generating Station	55101 Kalamazoo	42.2797
MI	Kalkaska Ct Project #1	7984 Kalkaska	44.6889
MI	Livingston Generating Station	55102 Otsego	45.0291
MI	Michigan Power Limited Partnership	54915 Mason	43.94
MI	Midland Cogeneration Venture	10745 Midland	43.5861
MI	Mistersky	1822 Wayne	42.3038
MI	Monroe	1733 Monroe	41.8917
MI	New Covert Generating Project	55297 Van Buren	42.3231
MI	Otsego Paper, Inc.	55799 Allegan	42.4641
MI	Presque Isle	1769 Marquette	46.5789
MI	Renaissance Power	55402 Montcalm	43.1864
MI	River Rouge	1740 Wayne	42.2733
MI	Shiras	1843 Marquette	46.5314
MI	St. Clair	1743 Saint Clair	42.7625
MI	Sumpter Plant	7972 Wayne	42.167
MI	T B Simon Power Plant	10328 Ingham	42.7178
MI	TES Filer City Station	50835 Manistee	44.217
MI	The Dow Chemical Company	880031 Midland	43.6025
MI	Thetford	1719 Genesee	43.1568
MI	Trenton Channel	1745 Wayne	42.1236
MI	University of Michigan	880045 Washtenaw	42.2808
MI	Wyandotte	1866 Wayne	42.2081
MI	Zeeland Generating Station	55087 Ottawa	42.82
MN	Allen S King	1915 Washington	45.03
MN	Black Dog	1904 Dakota	44.8108
MN	Blue Lake Generating Plant	8027 Scott	44.7855
MN	Boswell Energy Center	1893 Itasca	47.2603
MN	Cambridge Station	2038 Isanti	45.601
MN	Cannon Falls Energy Center	56241 Goodhue	44.5364
MN	Cascade Creek	6058 Olmsted	44.0322
MN	Cottage Grove Cogeneration	55010 Washington	44.7956
MN	Elk River	2039 Sherburne	45.2958
MN	Faribault Energy Park	56164 Rice	44.3353
MN	Fibrominn Biomass Power Plant	55867 Swift	45.2996
MN	Fox Lake	1888 Martin	43.6728
MN	Hibbard Energy Center	1897 Saint Louis	46.7356
MN	High Bridge	1912 Ramsey	44.9331
MN	Hoot Lake	1943 Otter Tail	46.29

MN	Hutchinson - Plant 2	6358 McLeod	44.8889
MN	Lakefield Junction Generating	7925 Martin	43.7989
MN	Laskin Energy Center	1891 Saint Louis	47.5306
MN	Mankato Energy Center	56104 Blue Earth	44.1965
MN	Minnesota River Station	7844 Carver	44.795
MN	Northeast Station	1961 Mower	43.7014
MN	Pleasant Valley Station	7843 Mower	43.7997
MN	Riverside (1927)	1927 Hennepin	45.0203
MN	Sherburne County	6090 Sherburne	45.3792
MN	Silver Lake	2008 Olmsted	44.0281
MN	Solway Plant	7947 Beltrami	47.5444
MN	Taconite Harbor Energy Center	10075 Cook	47.5314
MO	Asbury	2076 Jasper	37.3596
MO	Audrain Power Plant	55234 Audrain	39.3092
MO	Blue Valley	2132 Jackson	39.0919
MO	Chamois Power Plant	2169 Osage	38.6853
MO	Chillicothe	2122 Livingston	39.784
MO	Columbia	2123 Boone	38.9658
MO	Columbia Energy Center (MO)	55447 Boone	39.0183
MO	Dogwood Energy Facility	55178 Cass	38.7931
MO	Empire District Elec Co Energy Ctr	6223 Jasper	37.1385
MO	Essex Power Plant	7749 Stoddard	36.8678
MO	Fairgrounds	2082 Cole	38.5935
MO	Greenwood Energy Center	6074 Jackson	38.8615
MO	Hawthorn	2079 Jackson	39.1306
MO	Higginsville Municipal Power Plant	2131 Lafayette	39.0721
MO	Holden Power Plant	7848 Johnson	38.7538
MO	Howard Bend	2102 Saint Louis	38.6818
MO	Iatan	6065 Platte	39.4472
MO	James River	2161 Greene	37.1086
MO	John Twitty Energy Center	6195 Greene	37.1519
MO	Labadie	2103 Franklin	38.5583
MO	Lake Road	2098 Buchanan	39.7246
MO	McCartney Generating Station	7903 Greene	37.2479
MO	Meramec	2104 Saint Louis	38.4017
MO	Mexico	6650 Audrain	39.1481
MO	Moberly	6651 Randolph	39.4244
MO	Montrose	2080 Henry	38.3108
MO	Moreau	6652 Cole	38.5553
MO	New Madrid Power Plant	2167 New Madrid	36.5147
MO	Nodaway Power Plant	7754 Nodaway	40.2877
MO	Northeast Generating Station	2081 Jackson	39.1231
MO	Peno Creek Energy Center	7964 Pike	39.3531
MO	Ralph Green Station	2092 Cass	38.7865
MO	Rush Island	6155 Jefferson	38.1306
MO	Sibley	2094 Jackson	39.1778
MO	Sikeston	6768 Scott	36.8791

MO	Sioux	2107 Saint Charles	38.9158
MO	South Harper Peaking Facility	56151 Cass	38.6803
MO	St. Francis Power Plant	7604 Dunklin	36.5852
MO	State Line (MO)	7296 Jasper	37.0659
MO	Thomas Hill Energy Center	2168 Randolph	39.5531
MO	Viaduct	2096 Cape Girardeau	37.2572
MS	Attala Generating Plant	55220 Attala	33.0142
MS	Batesville Generation Facility	55063 Panola	34.3345
MS	Baxter Wilson	2050 Warren	32.2831
MS	Caledonia	55197 Lowndes	33.6464
MS	Chevron Cogenerating Station	2047 Jackson	30.34
MS	Choctaw County Gen	55706 Choctaw	33.2881
MS	Choctaw Gas Generation, LLC	55694 Choctaw	33.3806
MS	Crossroads Energy Center (CPU)	55395 Coahoma	34.183
MS	Daniel Electric Generating Plant	6073 Jackson	30.5335
MS	Delta	2051 Bolivar	33.7947
MS	Gerald Andrus	8054 Washington	33.3503
MS	Hinds Energy Facility	55218 Hinds	32.3781
MS	Kemper County	7960 Kemper	32.7976
MS	Magnolia Facility	55451 Benton	34.8358
MS	Moselle Generating Plant	2070 Jones	31.5289
MS	Natchez	2052 Adams	31.5987
MS	R D Morrow Senior Generating Plant	6061 Lamar	31.2194
MS	Red Hills Generation Facility	55076 Choctaw	33.3761
MS	Rex Brown	2053 Hinds	32.3564
MS	Silver Creek Generating Plant	7988 Jefferson Davis	31.6004
MS	Southaven Combined Cycle	55269 DeSoto	34.9939
MS	Sweatt Electric Generating Plant	2048 Lauderdale	32.2925
MS	Sylvarena Generating Plant	7989 Smith	31.9842
MS	Watson Electric Generating Plant	2049 Harrison	30.4408
MT	Colstrip	6076 Rosebud	45.8831
MT	Culbertson Station	56606 Roosevelt	48.1238
MT	Glendive Generating Station	2176 Dawson	47.0539
MT	Hardin Generating Station	55749 Big Horn	45.7578
MT	J E Corette	2187 Yellowstone	45.7747
MT	Lewis & Clark	6089 Richland	47.6788
MT	Mill Creek Generating Station	56908 Deer Lodge	46.1066
NC	Asheville	2706 Buncombe	35.4714
NC	Belews Creek	8042 Stokes	36.2811
NC	Blewett	2707 Anson	34.9815
NC	Blue Ridge Paper Products Inc.	50244 Haywood	35.535
NC	Buck	2720 Rowan	35.7133
NC	Butler-Warner Generation Plant	1016 Cumberland	35.0986
NC	CPI USA North Carolina Roxboro	10379 Person	36.435
NC	CPI USA North Carolina Southport	10378 Brunswick	33.9444
NC	Cape Fear	2708 Chatham	35.595
NC	Cliffside	2721 Cleveland	35.22

NC	Coastal Carolina Clean Power LLC	10381 Duplin	35.0225
NC	Craven County Wood Energy	10525 Craven	35.1285
NC	Dan River	2723 Rockingham	36.4862
NC	Domtar Paper Company LLC - Plymouth	50189 Martin	35.8628
NC	Edgecombe Genco, LLC	10384 Edgecombe	36.0378
NC	Elizabethtown Power	10380 Bladen	34.6474
NC	G G Allen	2718 Gaston	35.1897
NC	H F Lee Steam Electric Plant	2709 Wayne	35.3775
NC	KapStone Paper and Packaging Corp	50254 Halifax	36.4769
NC	L V Sutton	2713 New Hanover	34.2824
NC	Lincoln	7277 Lincoln	35.4317
NC	Lumberton Power	10382 Robeson	34.59
NC	Marshall	2727 Catawba	35.5975
NC	Mayo	6250 Person	36.5278
NC	NCEMC Anson Plant	56249 Anson	34.9708
NC	NCEMC Hamlet Plant	56292 Richmond	34.8422
NC	Plant Rowan County	7826 Rowan	35.7325
NC	Richmond County Plant	7805 Richmond	34.8422
NC	Riverbend	2732 Gaston	35.36
NC	Rockingham County Combustion Turbine	55116 Rockingham	36.3297
NC	Rosemary Power Station	50555 Halifax	36.4525
NC	Roxboro	2712 Person	36.4833
NC	University of NC Chapel Hill	54276 Orange	35.9069
NC	W H Weatherspoon	2716 Robeson	34.5889
NC	Westmoreland Partners Roanoke Valley I	54035 Halifax	36.4364
NC	Westmoreland Partners Roanoke Valley II	54755 Halifax	36.4364
NC	Weyerhaeuser - New Bern	50188 Craven	35.2081
ND	Antelope Valley	6469 Mercer	47.3714
ND	Coal Creek	6030 McLean	47.3761
ND	Coyote	8222 Mercer	47.2217
ND	Leland Olds	2817 Mercer	47.2819
ND	Milton R Young	2823 Oliver	47.0664
ND	R M Heskett	2790 Morton	46.8669
ND	Stanton	2824 Mercer	47.2872
NE	Beatrice	8000 Gage	40.3286
NE	C W Burdick	2241 Hall	40.9228
NE	Canaday	2226 Gosper	40.6941
NE	Cass County Station	55972 Cass	40.9472
NE	Gerald Gentleman Station	6077 Lincoln	41.0808
NE	Gerald Whelan Energy Center	60 Adams	40.5806
NE	Lon D Wright Power Plant	2240 Dodge	41.4275
NE	Nebraska City Station	6096 Otoe	40.6215
NE	North Omaha Station	2291 Douglas	41.3297
NE	Platte	59 Hall	40.8538
NE	Rokeby	6373 Lancaster	40.7316
NE	Sarpy County Station	2292 Sarpy	41.1706
NE	Sheldon	2277 Lancaster	40.5589

NE	Terry Bundy Generating Station	7887 Lancaster	40.9108
NH	Granite Ridge Energy	55170 Rockingham	42.9043
NH	Lost Nation	2362 Coos	44.5942
NH	Merrimack	2364 Merrimack	43.1411
NH	NAEA Newington Energy LLC	55661 Rockingham	43.1047
NH	Newington	8002 Rockingham	43.0974
NH	Schiller	2367 Rockingham	43.0978
NH	White Lake	2369 Carroll	43.8478
NJ	AES Red Oak	55239 Middlesex	40.4481
NJ	B L England	2378 Cape May	39.29
NJ	Bayonne Plant Holding, LLC	50497 Hudson	40.6543
NJ	Bergen	2398 Bergen	40.8375
NJ	Burlington Generating Station	2399 Burlington	40.0753
NJ	Camden Plant Holding, LLC	10751 Camden	39.9175
NJ	Carlls Corner Energy Center	2379 Cumberland	39.4547
NJ	Carneys Point	10566 Salem	39.6928
NJ	Cedar Energy Station	2380 Ocean	39.6893
NJ	Cumberland Energy Center	5083 Cumberland	39.3757
NJ	Deepwater	2384 Salem	39.6831
NJ	E F Kenilworth, Inc.	10805 Union	40.6781
NJ	EFS Parlin Holdings, LLC	50799 Middlesex	40.4586
NJ	Edison	2400 Middlesex	40.4911
NJ	Elmwood Park Power - LLC	50852 Bergen	40.9056
NJ	Essex	2401 Essex	40.7375
NJ	Forked River	7138 Ocean	39.8154
NJ	Gilbert Generating Station	2393 Hunterdon	40.5661
NJ	Howard M Down	2434 Cumberland	39.4889
NJ	Hudson Generating Station	2403 Hudson	40.7478
NJ	Kearny Generating Station	2404 Hudson	40.7375
NJ	Lakewood Cogeneration	54640 Ocean	40.0613
NJ	Linden Cogeneration Facility	50006 Union	40.6322
NJ	Linden Generating Station	2406 Union	40.6225
NJ	Logan Generating Plant	10043 Gloucester	39.7914
NJ	Mercer Generating Station	2408 Mercer	40.1797
NJ	Mickleton Energy Center	8008 Gloucester	39.8139
NJ	Middle Energy Center	2382 Cape May	39.0267
NJ	Missouri Avenue Energy Center	2383 Atlantic	39.3628
NJ	National Park	2409 Gloucester	39.8617
NJ	Newark Bay Cogen	50385 Essex	40.7197
NJ	North Jersey Energy Associates	10308 Middlesex	40.439
NJ	Ocean Peaking Power, LP	55938 Ocean	40.0606
NJ	Paulsboro Refining Company LLC	50628 Gloucester	39.84
NJ	Pedricktown Cogeneration Plant	10099 Salem	39.7661
NJ	Salem	2410 Salem	39.4625
NJ	Sayreville	2390 Middlesex	40.4753
NJ	Sewaren Generating Station	2411 Middlesex	40.5564
NJ	Sherman Avenue	7288 Cumberland	39.451

NJ	Sunoco Power Generation, LLC	50561 Gloucester	39.8746
NJ	Sunoco, Inc. (R&S) Eagle Point Facility	55113 Gloucester	39.8743
NJ	Werner	2385 Middlesex	40.4906
NJ	West Station	6776 Cumberland	39.4903
NM	Afton Generating Station	55210 Dona Ana	32.1134
NM	Bluffview Power Plant	55977 San Juan	36.7164
NM	Cunningham	2454 Lea	32.7131
NM	Escalante	87 McKinley	35.4159
NM	Four Corners Steam Elec Station	2442 San Juan	36.69
NM	Hobbs Generating Station	56458 Lea	32.7282
NM	Lordsburg Generating Station	7967 Hidalgo	32.3494
NM	Luna Energy Facility	55343 Luna	32.2983
NM	Maddox	2446 Lea	32.7131
NM	Milagro Cogeneration and Gas Plant	54814 San Juan	36.7367
NM	Person Generating Project	55039 Bernalillo	35.026
NM	Pyramid Generating Station	7975 Hidalgo	32.2363
NM	Reeves Generating Station	2450 Bernalillo	35.1716
NM	Rio Grande	2444 Dona Ana	31.8047
NM	San Juan	2451 San Juan	36.8006
NM	Valencia Power Plant	55802 Valencia	34.6063
NV	Apex Generating Station	55514 Clark	36.4178
NV	Chuck Lenzie Generating Station	55322 Clark	36.3853
NV	Clark	2322 Clark	36.0875
NV	Desert Star Energy Center	55077 Clark	35.7867
NV	Fort Churchill	2330 Lyon	39.1281
NV	Harry Allen	7082 Clark	36.425
NV	Las Vegas Cogeneration	10761 Clark	36.2317
NV	North Valmy	8224 Humboldt	40.8831
NV	Reid Gardner	2324 Clark	36.6531
NV	Silverhawk	55841 Clark	36.4078
NV	Sunrise	2326 Clark	36.1384
NV	TS Power Plant	56224 Eureka	40.7458
NV	Tracy	2336 Storey	39.5625
NV	Tri-Center Naniwa Energy	55494 Storey	39.5617
NV	Walter M. Higgins III Generating Station	55687 Clark	35.6139
NY	23rd and 3rd	7910 Kings	40.663
NY	59th Street	2503 New York	40.7711
NY	74th Street	2504 New York	40.768
NY	AES Cayuga, LLC	2535 Tompkins	42.6028
NY	AES Greenidge	2527 Yates	42.6789
NY	AES Somerset (Kintigh)	6082 Niagara	43.3561
NY	AES Westover (Goudey)	2526 Broome	42.1117
NY	AG - Energy	10803 Saint Lawrence	44.7258
NY	Allegany Station No. 133	10619 Allegany	42.5083
NY	Arthur Kill	2490 Richmond	40.5915
NY	Astoria Energy	55375 Queens	40.7825
NY	Astoria Gas Turbine Power	55243 Queens	40.7864

NY	Astoria Generating Station	8906 Queens	40.7869
NY	Athens Generating Company	55405 Greene	42.2728
NY	Batavia Energy	54593 Genesee	42.9828
NY	Bayswater Peaking Facility	55699 Queens	40.6106
NY	Bethlehem Energy Center (Albany)	2539 Albany	42.5905
NY	Bethpage Energy Center	50292 Nassau	40.7469
NY	Binghamton Cogen Plant	55600 Broome	42.1073
NY	Black River Generation, LLC	10464 Jefferson	44.0361
NY	Bowline Generating Station	2625 Rockland	41.2044
NY	Brentwood	7912 Suffolk	40.7869
NY	Brooklyn Navy Yard Cogeneration	54914 Kings	40.6994
NY	Caithness Long Island Energy Center	56234 Suffolk	40.8142
NY	Carr Street Generating Station	50978 Onondaga	43.0611
NY	Carthage Energy	10620 Jefferson	43.9842
NY	Castleton Power, LLC	10190 Rensselaer	42.5375
NY	Cornell University Ithaca Campus	50368 Tompkins	42.4428
NY	Covanta Niagara	50472 Niagara	43.0839
NY	Dynegy Danskammer	2480 Orange	41.5736
NY	Dynegy Roseton	8006 Orange	41.5711
NY	E F Barrett	2511 Nassau	40.6169
NY	East Hampton Facility	2512 Suffolk	40.9619
NY	East River	2493 New York	40.7281
NY	Eastman Kodak - Kodak Park	10025 Monroe	43.1969
NY	Edgewood Energy	55786 Suffolk	40.7861
NY	Empire Generating Company LLC	56259 Rensselaer	42.6296
NY	Equus Power I	56032 Nassau	40.6447
NY	Far Rockaway	2513 Queens	40.6111
NY	Fortistar North Tonawanda Inc	54131 Niagara	43.0483
NY	Freeport Power Plant No. 2	2679 Nassau	40.6447
NY	Glenwood	2514 Nassau	40.8269
NY	Glenwood Landing Energy Center	7869 Nassau	40.8275
NY	Gowanus	2494 Kings	40.6635
NY	Harlem River Yard	7914 Bronx	40.7989
NY	Hawkeye Energy Greenport, LLC	55969 Suffolk	41.1056
NY	Hell Gate	7913 Bronx	40.7988
NY	Hillburn	2628 Rockland	41.1269
NY	Holcim US Inc	880043 Greene	42.1631
NY	Holtsville Facility	8007 Suffolk	40.8153
NY	Hudson Avenue	2496 Kings	40.7052
NY	Huntley Power	2549 Erie	42.97
NY	Indeck-Corinth Energy Center	50458 Saratoga	43.25
NY	Indeck-Olean Energy Center	54076 Cattaraugus	42.0875
NY	Indeck-Oswego Energy Center	50450 Oswego	43.4682
NY	Indeck-Silver Springs Energy Center	50449 Wyoming	42.6544
NY	Indeck-Yerkes Energy Center	50451 Erie	42.9671
NY	Independence	54547 Oswego	43.495
NY	KIAC Cogeneration	54114 Queens	40.6417

NY	Lafarge Building Materials, Inc.	880044 Albany	42.4833
NY	Lehigh Northeast Cement Company	880052 Warren	43.3064
NY	Lockport	54041 Niagara	43.1622
NY	Massena Energy Facility	54592 Saint Lawrence	44.9503
NY	Momentive Performance Materials	880024 Saratoga	42.8158
NY	NRG Dunkirk Power	2554 Chautauqua	42.49
NY	Narrows	2499 Kings	40.6486
NY	Nassau Energy Corporation	52056 Nassau	40.7259
NY	Niagara Generation, LLC	50202 Niagara	43.0804
NY	Nissequogue Cogen	54149 Suffolk	40.9168
NY	North 1st	7915 Kings	40.7168
NY	Northport	2516 Suffolk	40.9231
NY	Oswego Harbor Power	2594 Oswego	43.46
NY	Pinelawn Power	56188 Suffolk	40.7358
NY	Poletti 500 MW CC	56196 Queens	40.7881
NY	Port Jefferson Energy Center	2517 Suffolk	40.9503
NY	Pouch Terminal	8053 Richmond	40.6188
NY	Ravenswood Generating Station	2500 Queens	40.7585
NY	Ravenswood Steam Plant	880100 Queens	40.76
NY	Rensselaer Cogen	54034 Rensselaer	42.63
NY	Richard M Flynn (Holtsville)	7314 Suffolk	40.8153
NY	Riverbay Corp. - Co-Op City	52168 Bronx	40.8697
NY	S A Carlson	2682 Chautauqua	42.0917
NY	Saranac Power Partners, LP	54574 Clinton	44.7132
NY	Selkirk Cogen Partners	10725 Albany	42.5744
NY	Shoemaker	2632 Orange	41.4278
NY	Shoreham Energy	55787 Suffolk	40.9572
NY	Sterling Power Plant	50744 Oneida	43.0803
NY	Syracuse Energy Corporation	50651 Onondaga	43.0653
NY	Ticonderoga Mill	54099 Essex	43.8914
NY	Vernon Boulevard	7909 Queens	40.7539
NY	WPS Beaver Falls Generation, LLC	10617 Lewis	43.8861
NY	WPS Syracuse Generation, LLC	10621 Onondaga	43.0664
NY	Wading River Facility	7146 Suffolk	40.9575
NY	West Babylon Facility	2521 Suffolk	40.6953
OH	AK Steel Corporation - Middletown	880042 Butler	39.4968
OH	AMP-Ohio Gas Turbines Bowling Green	55262 Wood	41.3989
OH	AMP-Ohio Gas Turbines Galion	55263 Crawford	40.7167
OH	AMP-Ohio Gas Turbines Napoleon	55264 Henry	41.4077
OH	ArcelorMittal Cleveland, Inc.	10398 Cuyahoga	41.4631
OH	Ashtabula	2835 Ashtabula	41.9086
OH	Avon Lake Power Plant	2836 Lorain	41.5042
OH	BP Husky Refining LLC	880030 Lucas	41.6786
OH	Bay Shore	2878 Lucas	41.6925
OH	Cardinal	2828 Jefferson	40.2522
OH	Cargill Incorporated	880039 Montgomery	39.8242
OH	Conesville	2840 Coshocton	40.1842

OH	Darby Electric Generating Station	55247 Pickaway	39.7139
OH	Dicks Creek Station	2831 Butler	39.465
OH	Duke Energy Hanging Rock, II LLC	55736 Lawrence	38.5731
OH	Duke Energy Washington, II LLC	55397 Washington	39.5798
OH	Eastlake	2837 Lake	41.6713
OH	Emery Oleochemicals, LLC	880033 Hamilton	39.1792
OH	Frank M Tait Station	2847 Montgomery	39.7281
OH	Gen J M Gavin	8102 Gallia	38.9347
OH	Greenville Electric Gen Station	55228 Darke	40.0747
OH	Hamilton Municipal Power Plant	2917 Butler	39.4083
OH	J M Stuart	2850 Adams	38.6361
OH	Killen Station	6031 Adams	38.6903
OH	Kyger Creek	2876 Gallia	38.9161
OH	Lake Shore	2838 Cuyahoga	41.5356
OH	Lima Refinery	880083 Allen	40.7234
OH	Mad River	2860 Clark	39.9239
OH	Madison Generating Station	55110 Butler	39.4522
OH	Miami Fort Generating Station	2832 Hamilton	39.1131
OH	Muskingum River	2872 Washington	39.5908
OH	Niles	2861 Trumbull	41.1667
OH	O H Hutchings	2848 Montgomery	39.6094
OH	Omega JV2 Bowling Green	7783 Wood	41.3883
OH	Omega JV2 Hamilton	7782 Butler	39.3528
OH	P H Glatfelter Company - Chillicothe Fac	10244 Ross	39.3265
OH	Picway	2843 Pickaway	39.7933
OH	Procter & Gamble Company - Ivorydale	880028 Hamilton	39.1756
OH	R E Burger	2864 Belmont	39.9094
OH	RG Steel, LLC	54207 Trumbull	41.2119
OH	Richland Peaking Station	2880 Defiance	41.3033
OH	Robert P Mone	7872 Van Wert	40.9297
OH	Rolling Hills Generating LLC	55401 Vinton	39.0839
OH	Smart Papers LLC	50247 Butler	39.4086
OH	Tait Electric Generating Station	55248 Montgomery	39.7286
OH	The Ohio State University	50044 Franklin	40.0008
OH	Troy Energy, LLC	55348 Wood	41.4774
OH	W H Sammis	2866 Jefferson	40.5308
OH	W H Zimmer Generating Station	6019 Clermont	38.8689
OH	Walter C Beckjord Generating Station	2830 Clermont	38.9917
OH	Waterford Plant	55503 Washington	39.5314
OH	West Lorain	2869 Lorain	41.4297
OH	Woodsdale	7158 Butler	39.4492
OK	Anadarko	3006 Caddo	35.0847
OK	Chouteau Power Plant	7757 Mayes	36.2206
OK	Comanche (8059)	8059 Comanche	34.5431
OK	Grand River Dam Authority	165 Mayes	36.1906
OK	Green Country Energy, LLC	55146 Tulsa	35.9833
OK	Horseshoe Lake	2951 Oklahoma	35.5089

OK	Hugo	6772 Choctaw	34.0158
OK	McClain Energy Facility	55457 McClain	35.2979
OK	Mooreland	3008 Woodward	36.4375
OK	Muskogee	2952 Muskogee	35.7617
OK	Mustang	2953 Canadian	35.4711
OK	Northeastern	2963 Rogers	36.4317
OK	Oneta Energy Center	55225 Wagoner	36.0119
OK	Ponca	762 Kay	36.7205
OK	Redbud Power Plant	55463 Oklahoma	35.6853
OK	Riverside (4940)	4940 Tulsa	35.9978
OK	Seminole (2956)	2956 Seminole	34.9678
OK	Sooner	6095 Noble	36.4537
OK	Southwestern	2964 Caddo	35.1009
OK	Spring Creek Power Plant	55651 Logan	35.7422
OK	Tenaska Kiamichi Generating Station	55501 Pittsburg	34.6831
OK	Tulsa	2965 Tulsa	36.1125
OR	Boardman	6106 Morrow	45.6933
OR	Coyote Springs	7350 Morrow	45.8486
OR	Hermiston	54761 Umatilla	45.8042
OR	Hermiston Power Plant	55328 Umatilla	45.7931
OR	Klamath Cogeneration Project	55103 Klamath	42.1739
OR	Klamath Energy LLC	55544 Klamath	42.1725
OR	Port Westward	56227 Columbia	46.1792
PA	AES Beaver Valley LLC	10676 Beaver	40.6558
PA	AES Ironwood	55337 Lebanon	40.3509
PA	Allegheny Energy Units 1 & 2	55196 Allegheny	40.5447
PA	Allegheny Energy Units 3, 4 & 5	55710 Allegheny	40.5456
PA	Allegheny Energy Units 8 & 9	55377 Fayette	39.7475
PA	Armagh Compressor Station	880071 Indiana	40.4319
PA	Armstrong Energy Ltd Partnership, LLLP	55347 Armstrong	40.6383
PA	Armstrong Power Station	3178 Armstrong	40.9289
PA	Bernville Station	880049 Berks	40.4092
PA	Bethlehem Power Plant	55690 Northampton	40.6175
PA	Bruce Mansfield	6094 Beaver	40.6344
PA	Brunner Island	3140 York	40.097
PA	Brunot Island Power Station	3096 Allegheny	40.4638
PA	Cambria Cogen	10641 Cambria	40.4748
PA	Chambersburg Units 12 & 13	55654 Franklin	39.8668
PA	Cheswick	8226 Allegheny	40.5383
PA	Colver Power Project	10143 Cambria	40.55
PA	Conemaugh	3118 Indiana	40.3842
PA	ConocoPhillips Co., Trainer Refinery	880025 Delaware	39.8228
PA	Cromby	3159 Chester	40.1514
PA	Croydon Generating Station	8012 Bucks	40.08
PA	Domtar Paper Company, LLC	54638 Elk	41.4908
PA	Duke Energy Fayette, II LLC	55516 Fayette	39.8592
PA	Ebensburg Power Company	10603 Cambria	40.455

PA	Eddystone Generating Station	3161 Delaware	39.858
PA	Elrama	3098 Washington	40.2525
PA	Entriken Compressor Station	880072 Huntingdon	40.3086
PA	FPL Energy MH50	50074 Delaware	39.8103
PA	FPL Energy Marcus Hook, LP	55801 Delaware	39.8083
PA	Fairless Energy, LLC	55298 Bucks	40.1464
PA	Fairless Hills Generating Station	7701 Bucks	40.1405
PA	G F Weaton	50130 Beaver	40.6672
PA	Gilberton Power Company	10113 Schuylkill	40.79
PA	Grays Ferry Cogen Partnership	54785 Philadelphia	39.9417
PA	Handsome Lake Energy	55233 Venango	41.2908
PA	Hatfield's Ferry Power Station	3179 Greene	39.8562
PA	Hazleton Generation	10870 Luzerne	40.9282
PA	Homer City	3122 Indiana	40.511
PA	Hunlock Creek Energy Center	3176 Luzerne	41.2033
PA	Hunlock Unit 4	56397 Luzerne	41.2033
PA	Hunterstown Combined Cycle	55976 Adams	39.8725
PA	Keystone	3136 Armstrong	40.6604
PA	Kimberly-Clark Tissue Company	50410 Delaware	39.8439
PA	Liberty Electric Power Plant	55231 Delaware	39.8622
PA	Lower Mount Bethel Energy	55667 Northampton	40.8011
PA	Martins Creek	3148 Northampton	40.796
PA	Merck & Company - West Point	52149 Montgomery	40.2128
PA	Mitchell Power Station	3181 Washington	40.2207
PA	Montour	3149 Montour	41.0714
PA	Mountain	3111 Cumberland	40.1219
PA	Mt. Carmel Cogeneration	10343 Northumberland	40.8092
PA	Naval Surface Warfare Center	880009 Philadelphia	39.8908
PA	New Castle	3138 Lawrence	40.9378
PA	North East Cogeneration Plant	54571 Erie	42.202
PA	Northampton Generating Plant	50888 Northampton	40.6917
PA	Northeastern Power Company	50039 Schuylkill	40.8737
PA	Ontelaunee Energy Center	55193 Berks	40.4219
PA	P H Glatfelter Company	50397 York	39.8717
PA	PEI Power Corporation	50279 Lackawanna	41.4844
PA	Panther Creek Energy Facility	50776 Carbon	40.8556
PA	Philadelphia Refinery	52106 Philadelphia	39.9058
PA	Piney Creek Power Plant	54144 Clarion	41.1776
PA	Portland	3113 Northampton	40.91
PA	Procter & Gamble Paper Products	50463 Wyoming	41.573
PA	Richmond	3168 Philadelphia	39.9853
PA	Schuylkill	3169 Philadelphia	39.9425
PA	Scrubgrass Generating Plant	50974 Venango	41.2678
PA	Seward	3130 Indiana	40.4081
PA	Shawville	3131 Clearfield	41.067
PA	Shermans Dale Station	880050 Perry	40.3439
PA	St. Nicholas Cogeneration Project	54634 Schuylkill	40.8222

PA	Sunbury	3152 Snyder	40.8361
PA	Sunoco Chemicals Frankford Plant	880007 Philadelphia	40.0067
PA	Titus	3115 Berks	40.3061
PA	Tolna	3116 York	39.7636
PA	Trigen Energy - Schuylkill	50607 Philadelphia	39.9422
PA	Trigen Energy Corporation-Edison St	880006 Philadelphia	39.949
PA	US Steel (Clairton Coke)	50729 Allegheny	40.3097
PA	US Steel (Edgar Thomson)	50732 Allegheny	40.3925
PA	United Refining Company	880099	
PA	WPS Westwood Generation, LLC	50611 Schuylkill	40.6191
PA	Warren	3132 Warren	41.8358
PA	Wheelabrator - Frackville	50879 Schuylkill	40.7817
PA	York Energy Center	55524 York	39.4417
RI	FPLE Rhode Island State Energy LP	55107 Providence	41.8017
RI	Manchester Street	3236 Providence	41.8167
RI	Ocean State Power	51030 Providence	42.0099
RI	Ocean State Power II	54324 Providence	42.0099
RI	Pawtucket Power Associates, LP	54056 Providence	41.861
RI	Tiverton Power	55048 Newport	41.6417
SC	AbiBow US Inc. - Catawba Operations	2440 York	34.8456
SC	BP Amoco Chemical Company CR Plant	880092 Berkeley	32.9701
SC	Broad River Energy Center	55166 Cherokee	35.0786
SC	Canadys Steam	3280 Colleton	33.0647
SC	Cherokee County Cogen	55043 Cherokee	35.0727
SC	Cogen South	7737 Charleston	32.8994
SC	Columbia Energy Center (SC)	55386 Calhoun	33.8692
SC	Cope Station	7210 Orangeburg	33.3642
SC	Cross	130 Berkeley	33.3692
SC	Darlington County	3250 Darlington	34.4185
SC	Dolphus M Grainger	3317 Horry	33.8253
SC	H B Robinson	3251 Darlington	34.4017
SC	Hagood	3285 Charleston	32.8265
SC	Hilton Head Gas Turbine Site	3318 Beaufort	32.2089
SC	INVISTA S.a.r.l. Camden Plant	880057 Kershaw	34.2337
SC	International Paper-Eastover Mill	52151 Richland	33.8872
SC	Jasper County Generating Facility	55927 Jasper	32.3592
SC	Jefferies	3319 Berkeley	33.2422
SC	John S. Rainey Generating Station	7834 Anderson	34.3477
SC	Marlboro Paper Mill	880074 Marlboro	34.605
SC	McMeekin	3287 Lexington	34.0533
SC	Mill Creek Combustion Turbine Sta	7981 Cherokee	35.1597
SC	Myrtle Beach Gas Turbine Site	3320 Horry	33.7089
SC	Smurfit-Stone Container	50806 Florence	34.1519
SC	Sonoco Products Company	880078 Darlington	34.387
SC	Urquhart	3295 Aiken	33.435
SC	W S Lee	3264 Anderson	34.6022
SC	Wateree	3297 Richland	33.8264

SC	Williams	3298 Berkeley	33.0163
SC	Winyah	6249 Georgetown	33.3303
SD	Angus Anson	7237 Minnehaha	43.6033
SD	Big Stone	6098 Grant	45.3047
SD	Groton Generating Station	56238 Brown	45.3718
SD	Huron	3344 Beadle	44.3696
SD	Lange	55478 Pennington	44.1212
TN	Allen	3393 Shelby	35.0742
TN	Bowater Newsprint - Calhoun Operation	50956 McMinn	35.2964
TN	Brownsville CT	55081 Haywood	35.5438
TN	Bull Run	3396 Anderson	36.0211
TN	Cargill Corn Milling	10729 Shelby	35.0828
TN	Cumberland	3399 Stewart	36.3903
TN	Dupont Johnsonville	880001 Humphreys	36.0419
TN	Dupont Old Hickory	10797 Davidson	36.2756
TN	Eastman Chemical Company	50481 Sullivan	36.5192
TN	Gallatin	3403 Sumner	36.3156
TN	Gleason Generating Facility	55251 Weakley	36.2454
TN	John Sevier	3405 Hawkins	36.3767
TN	Johnsonville	3406 Humphreys	36.0278
TN	Kingston	3407 Roane	35.8992
TN	Lagoon Creek	7845 Haywood	35.6578
TN	Memphis Refinery	55703 Shelby	35.0836
TN	Packaging Corporation of America	50296 Hardin	35.0442
TN	Tate & Lyle-Loudon	880079 Loudon	35.7433
TX	AES Deepwater, Inc.	10670 Harris	29.7192
TX	Alex Ty Cooke Generating Station	3602 Lubbock	33.5211
TX	Barney M. Davis	4939 Nueces	27.6067
TX	Bastrop Clean Energy Center	55168 Bastrop	30.1458
TX	Bayou Cogeneration Plant	10298 Harris	29.6225
TX	Baytown Energy Center	55327 Chambers	29.7731
TX	Big Brown	3497 Freestone	31.8206
TX	Blackhawk Station	55064 Hutchinson	35.6957
TX	Bosque County Power Plant	55172 Bosque	31.8594
TX	Brazos Valley Energy, LP	55357 Fort Bend	29.4731
TX	C E Newman	3574 Dallas	32.9125
TX	C. R. Wing Cogeneration Plant	52176 Howard	32.2722
TX	Calpine Hidalgo Energy Center	7762 Hidalgo	26.3389
TX	Cedar Bayou	3460 Chambers	29.7483
TX	Cedar Bayou 4	56806 Chambers	29.752
TX	Channel Energy Center	55299 Harris	29.7189
TX	Channelview Cogeneration Facility	55187 Harris	29.8356
TX	Clear Lake Cogeneration	10741 Harris	29.6255
TX	Coletto Creek	6178 Goliad	28.7128
TX	Colorado Bend Energy Center	56350 Wharton	29.2878
TX	Copper Station	9 El Paso	31.7569
TX	Corpus Christi Energy Center	55206 Nueces	27.8139

TX	Cottonwood Energy Project	55358 Newton	30.2588
TX	Decker Creek	3548 Travis	30.3036
TX	Decordova	8063 Hood	32.4033
TX	Deer Park Energy Center	55464 Harris	29.7153
TX	Eastman Cogeneration Facility	55176 Harrison	32.4472
TX	Ennis Power Company, LLC	55223 Ellis	32.3194
TX	Exelon Laporte Generating Station	55365 Harris	29.702
TX	Exxonmobil Beaumont Refinery	50625 Jefferson	30.0639
TX	FPLE Forney, LP	55480 Kaufman	32.7563
TX	Freestone Power Generation	55226 Freestone	31.8907
TX	Frontera Generation Facility	55098 Hidalgo	26.208
TX	Gibbons Creek Steam Electric Station	6136 Grimes	30.6167
TX	Graham	3490 Young	33.135
TX	Greens Bayou	3464 Harris	29.8208
TX	Gregory Power Facility	55086 San Patricio	27.8881
TX	Guadalupe Generating Station	55153 Guadalupe	29.6237
TX	H W Pirkey Power Plant	7902 Harrison	32.4607
TX	Handley Generating Station	3491 Tarrant	32.7278
TX	Hardin County Peaking Facility	56604 Hardin	30.3039
TX	Harrington Station	6193 Potter	35.2972
TX	Harrison County Power Project	55664 Harrison	32.3958
TX	Hays Energy Project	55144 Hays	29.7806
TX	J K Spruce	7097 Bexar	29.3091
TX	J Robert Massengale Generating Station	3604 Lubbock	33.6039
TX	J T Deely	6181 Bexar	29.3072
TX	Jack County Generation Facility	55230 Jack	33.101
TX	Johnson County Generation Facility	54817 Johnson	32.3994
TX	Jones Station	3482 Lubbock	33.5239
TX	Knox Lee Power Plant	3476 Gregg	32.3766
TX	Lake Creek	3502 McLennan	31.4647
TX	Lake Hubbard	3452 Dallas	32.8364
TX	Lamar Power (Paris)	55097 Lamar	33.6314
TX	Laredo	3439 Webb	27.5667
TX	Leon Creek	3609 Bexar	29.3511
TX	Lewis Creek	3457 Montgomery	30.4364
TX	Limestone	298 Limestone	31.4219
TX	Lone Star Power Plant	3477 Morris	32.9217
TX	Lost Pines 1	55154 Bastrop	30.1478
TX	Magic Valley Generating Station	55123 Hidalgo	26.3403
TX	Martin Lake	6146 Rusk	32.2597
TX	Midlothian Energy	55091 Ellis	32.4302
TX	Monticello	6147 Titus	33.0917
TX	Moore County Station	3483 Moore	35.9667
TX	Morgan Creek	3492 Mitchell	32.3358
TX	Mountain Creek Generating Station	3453 Dallas	32.7253
TX	Mustang Station	55065 Yoakum	32.9728
TX	Mustang Station Units 4 and 5	56326 Yoakum	32.9748

TX	New Gulf Power Facility	50137 Wharton	29.2639
TX	Newman	3456 El Paso	31.9858
TX	Nichols Station	3484 Potter	35.2825
TX	Nueces Bay	3441 Nueces	27.8182
TX	O W Sommers	3611 Bexar	29.3078
TX	Oak Grove	6180 Robertson	31.185
TX	Odessa-Ector Power Partners, LP	55215 Ector	31.8378
TX	Oklaunion Power Station	127 Wilbarger	34.0825
TX	Optim Energy Altura Cogen, LLC	50815 Harris	29.8161
TX	Pampa Power Plant	7678 Gray	35.4834
TX	Paris Energy Center	50109 Lamar	33.6968
TX	Pasadena Power Plant	55047 Harris	29.7233
TX	Permian Basin	3494 Ward	31.5839
TX	Plant X	3485 Lamb	34.1661
TX	Power Lane Steam Plant	4195 Hunt	33.1707
TX	Quail Run Energy Center	56349 Ector	31.8414
TX	R W Miller	3628 Palo Pinto	32.6581
TX	Ray Olinger	3576 Collin	33.0667
TX	Rio Nogales Power Project, LP	55137 Guadalupe	29.5932
TX	Roland C. Dansby Power Plant	6243 Brazos	30.7217
TX	SRW Cogen Limited Partnership	55120 Orange	30.0561
TX	Sabine	3459 Orange	30.0242
TX	Sabine Cogeneration Facility	55104 Orange	30.0444
TX	Sam Bertron	3468 Harris	29.7268
TX	Sam Rayburn Plant	3631 Victoria	28.8947
TX	Sam Seymour	6179 Fayette	29.9172
TX	San Jacinto County Peaking Facility	56603 San Jacinto	30.42
TX	San Jacinto Steam Electric Station	7325 Harris	29.6967
TX	San Miguel	6183 Atascosa	28.7044
TX	Sand Hill Energy Center	7900 Travis	30.2091
TX	Sandow	6648 Milam	30.5642
TX	Sandow Station	52071 Milam	30.5681
TX	Silas Ray	3559 Cameron	25.9131
TX	Sim Gideon	3601 Bastrop	30.1456
TX	South Houston Green Power Site	55470 Galveston	29.3775
TX	Spencer	4266 Denton	33.1978
TX	Stryker Creek	3504 Cherokee	31.9381
TX	Sweeny Cogeneration Facility	55015 Brazoria	29.0728
TX	Sweetwater Generating Plant	50615 Nolan	32.4925
TX	T C Ferguson Power Plant	4937 Llano	30.558
TX	T H Wharton	3469 Harris	29.9414
TX	Tenaska Frontier Generating Station	55062 Grimes	30.5924
TX	Tenaska Gateway Generating Station	55132 Rusk	32.0164
TX	Texas City Cogeneration	52088 Galveston	29.3787
TX	Tolk Station	6194 Lamb	34.1847
TX	Tradinghouse	3506 McLennan	31.5733
TX	Trinidad	3507 Henderson	32.1264

TX	Twin Oaks	7030 Robertson	31.0932
TX	V H Braunig	3612 Bexar	29.2575
TX	Valley (TXU)	3508 Fannin	33.6281
TX	Victoria Power Station	3443 Victoria	28.7883
TX	W A Parish	3470 Fort Bend	29.4828
TX	W B Tuttle	3613 Bexar	29.53
TX	Welsh Power Plant	6139 Titus	33.0583
TX	Wilkes Power Plant	3478 Marion	32.8486
TX	Winchester Power Park	56674 Fayette	30.0383
TX	Wise County Power Company, LLC	55320 Wise	33.0583
TX	Wolf Hollow I, LP	55139 Hood	32.3347
UT	Bonanza	7790 Uintah	40.0864
UT	Carbon	3644 Carbon	39.7272
UT	Currant Creek Power Project	56102 Juab	39.8223
UT	Gadsby	3648 Salt Lake	40.7686
UT	Hunter	6165 Emery	39.1747
UT	Huntington	8069 Emery	39.3792
UT	Intermountain	6481 Millard	39.5108
UT	Lake Side Power Plant	56237 Utah	40.3311
UT	Millcreek Power	56253 Washington	37.1124
UT	Nebo Power Station	56177 Utah	40.0614
UT	West Valley Generation Project	55622 Salt Lake	40.6663
VA	Altavista Power Station	10773 Campbell	37.1183
VA	Bear Garden Generating Station	56807 Buckingham	37.6961
VA	Bellemeade Power Station	50966 Richmond (City)	37.4964
VA	Birchwood Power Facility	54304 King George	38.2667
VA	Bremo Power Station	3796 Fluvanna	37.7089
VA	Buchanan Units 1 & 2	55738 Buchanan	37.1753
VA	Celanese Acetate LLC	52089 Giles	37.3451
VA	Chesapeake Energy Center	3803 Chesapeake (City)	36.7711
VA	Chesterfield Power Station	3797 Chesterfield	37.3822
VA	Clinch River	3775 Russell	36.9333
VA	Clover Power Station	7213 Halifax	36.8692
VA	Cogentrix-Hopewell	10377 Hopewell (City)	37.2939
VA	Cogentrix-Portsmouth	10071 Portsmouth (City)	36.8703
VA	Commonwealth Chesapeake	55381 Accomack	37.9892
VA	Darbytown Combustion Turbine	7212 Henrico	37.4978
VA	Doswell Limited Partnership	52019 Hanover	37.8181
VA	Elizabeth River Combustion Turbine Sta	52087 Chesapeake (City)	36.7743
VA	GP Big Island, LLC	50479 Bedford	37.5229
VA	Glen Lyn	3776 Giles	37.3704
VA	Gordonsville Power Station	54844 Louisa	38.1253
VA	Gravel Neck Combustion Turbine	7032 Surry	37.1575
VA	Honeywell Intl, Inc Hopewell Plant	880093 Prince George	37.3016
VA	Hopewell Cogeneration Facility	10633 Hopewell (City)	37.2914
VA	Hopewell Power Station	10771 Hopewell (City)	37.2969
VA	International Paper-Franklin Mill	52152 Isle of Wight	36.6803

VA	Ladysmith Combustion Turbine Sta	7838 Caroline	38.5442
VA	Louisa Generation Facility	7837 Louisa	38.1181
VA	Marsh Run Generation Facility	7836 Fauquier	38.5283
VA	MeadWestvaco of Virginia, Covington	50900 Alleghany	37.7997
VA	Mecklenburg Power Station	52007 Mecklenburg	36.6009
VA	Possum Point Power Station	3804 Prince William	38.5367
VA	Potomac River	3788 Alexandria (City)	38.8203
VA	Remington Combustion Turbine Station	7839 Fauquier	38.0722
VA	RockTenn West Point Mill	10017 King William	37.5392
VA	Southampton Power Station	10774 Southampton	36.6525
VA	Spruance Genco, LLC	54081 Richmond (City)	37.4556
VA	Tasley Energy Center	3785 Accomack	37.7061
VA	Tenaska Virginia Generating Station	55439 Fluvanna	37.8667
VA	Wolf Hills Energy	55285 Washington	36.6644
VA	Yorktown Power Station	3809 York	37.2144
VT	Berlin 5	3734 Washington	44.2498
VT	J C McNeil	589 Chittenden	44.4917
VT	Penny Lane Gas Turbine	3754 Chittenden	44.4817
WA	Centralia	3845 Lewis	46.7559
WA	Chehalis Generation Facility	55662 Lewis	46.6226
WA	Encogen Generating Station	7870 Whatcom	48.746
WA	Frederickson Power LP	55818 Pierce	47.0864
WA	Fredonia Generating Station	607 Skagit	48.4553
WA	Goldendale Generating Station	55482 Klickitat	45.8114
WA	Grays Harbor Energy Center	7999 Grays Harbor	46.9688
WA	Mint Farm Generating Station	55700 Cowlitz	46.1403
WA	River Road	7605 Clark	45.65
WA	Sumas Generating Station	54476 Whatcom	48.9905
WI	Alma	4140 Buffalo	44.3085
WI	Bay Front	3982 Ashland	46.5869
WI	Blount Street	3992 Dane	43.0792
WI	Columbia	8023 Columbia	43.4864
WI	Combined Locks Energy Center, LLC	55558 Outagamie	44.2717
WI	Concord	7159 Jefferson	43.1669
WI	DTE Stoneman, LLC	4146 Grant	42.7083
WI	Depere Energy Center	55029 Brown	44.4489
WI	Edgewater (4050)	4050 Sheboygan	43.715
WI	Elk Mound Generating Station	7863 Chippewa	44.9019
WI	Elm Road Generating Station	56068 Milwaukee	42.8445
WI	Fitchburg Generating Station	3991 Dane	43.0149
WI	Fox Energy Company LLC	56031 Outagamie	44.3204
WI	French Island	4005 La Crosse	43.8298
WI	Genoa	4143 Vernon	43.5592
WI	Germantown Power Plant	6253 Washington	43.1952
WI	Island Street Peaking Plant	55836 Outagamie	44.2761
WI	J P Madgett	4271 Buffalo	44.3026
WI	Manitowoc	4125 Manitowoc	44.082

WI	Marshfield Utilities Combustion Turbine	56480 Wood	44.635
WI	Neenah Energy Facility	55135 Winnebago	44.1934
WI	Nelson Dewey	4054 Grant	42.7225
WI	Paris	7270 Kenosha	42.6658
WI	Pleasant Prairie	6170 Kenosha	42.5381
WI	Port Washington Generating Station	4040 Ozaukee	43.3842
WI	Pulliam	4072 Brown	44.5397
WI	Riverside Energy Center	55641 Rock	42.5835
WI	Rock River	4057 Rock	42.5831
WI	Rockgen Energy Center	55391 Dane	42.9767
WI	Sheboygan Falls Energy Facility	56166 Sheboygan	43.7519
WI	Sheepskin	4059 Rock	42.8347
WI	South Fond Du Lac	7203 Fond du Lac	43.7353
WI	South Oak Creek	4041 Milwaukee	42.8457
WI	Valley (WEPCO)	4042 Milwaukee	43.0303
WI	West Campus Cogeneration Facility	7991 Dane	43.0751
WI	West Marinette	4076 Marinette	45.0869
WI	Weston	4078 Marathon	44.8606
WI	Wheaton Generating Plant	4014 Chippewa	44.8864
WI	Whitewater Cogeneration Facility	55011 Jefferson	42.8543
WV	Albright Power Station	3942 Preston	39.4883
WV	ArcelorMittal Weirton, Inc.	54344 Hancock	40.422
WV	Bayer Cropscience Institute Plant	880053 Kanawha	38.3864
WV	Big Sandy Peaker Plant	55284 Wayne	38.3441
WV	Ceredo Generating Station	55276 Wayne	38.3681
WV	Dupont Belle Plant	10788 Kanawha	38.2431
WV	Fort Martin Power Station	3943 Monongalia	39.7107
WV	Grant Town Power Plant	10151 Marion	39.5611
WV	Harrison Power Station	3944 Harrison	39.3844
WV	John E Amos	3935 Putnam	38.4731
WV	Kammer	3947 Marshall	39.8464
WV	Kanawha River	3936 Kanawha	38.2056
WV	Longview Power	56671 Monongalia	39.7078
WV	Mitchell (WV)	3948 Marshall	39.8297
WV	Morgantown Energy Facility	10743 Monongalia	39.6397
WV	Mount Storm Power Station	3954 Grant	39.2014
WV	Mountaineer (1301)	6264 Mason	38.9794
WV	North Branch Power Station	7537 Grant	39.2623
WV	PPG Industries, Inc - Natrium Plant	50491 Marshall	39.7475
WV	Phil Sporn	3938 Mason	38.9669
WV	Pleasants Energy, LLC	55349 Pleasants	39.3328
WV	Pleasants Power Station	6004 Pleasants	39.3668
WV	Rivesville Power Station	3945 Marion	39.5314
WV	UCC South Charleston Plant	50151 Kanawha	38.3688
WV	Willow Island Power Station	3946 Pleasants	39.3672
WY	Dave Johnston	4158 Converse	42.8378
WY	Dry Fork Station	56609 Campbell	40.2028

WY	Jim Bridger	8066 Sweetwater	41.7378
WY	Laramie River	6204 Platte	42.1103
WY	Naughton	4162 Lincoln	41.7572
WY	Neil Simpson II	7504 Campbell	44.2853
WY	Neil Simpson II (CT2)	55477 Campbell	44.2853
WY	Wygen I	55479 Campbell	44.2862
WY	Wygen II	56319 Campbell	44.2911
WY	Wygen III	56596 Campbell	44.2892
WY	Wyodak	6101 Campbell	44.2886