

**UNITED STATES DISTRICT COURT
FOR THE DISTRICT OF COLUMBIA**

ENVIRONMENTAL INTEGRITY PROJECT,
1920 L Street, N.W., Suite 800
Washington, DC 20036

and

SIERRA CLUB,
85 Second Street, 2nd Floor
San Francisco, CA 94105

Plaintiffs,

v.

UNITED STATES ENVIRONMENTAL
PROTECTION AGENCY,

and

LISA JACKSON, Administrator,
United States Environmental Protection
Agency,

Defendants.

Civil Case No.

Case: 1:09-cv-00218
Assigned To : Sullivan, Emmet G.
Assign. Date : 2/4/2009
Description: Admin. Agency Review

COMPLAINT FOR DECLARATORY AND INJUNCTIVE RELIEF

I. STATEMENT OF THE CASE

1. Plaintiffs seek an order compelling the United States Environmental Protection Agency and Administrator Lisa Jackson (collectively, "EPA") to perform their nondiscretionary duty to review and, if appropriate, revise the new source performance standard ("NSPS") for nitric acid plants set forth in 40 C.F.R. Part 60, Subpart G.

2. EPA first promulgated the NSPS for nitric acid plants in 1971. See 36 Fed. Reg. 24,876 (Dec. 23, 1971). EPA reviewed the standard in 1979 and again in 1984, but made no

revisions after either review. See Review of Standards of Performance for New Stationary Sources: Nitric Acid Plants, 44 Fed. Reg. 35,265 (June 19, 1979); Review of Standards of Performance for New Stationary Sources; Nitric Acid Plants, 49 Fed. Reg. 13,654 (Apr. 5, 1984). EPA has not reviewed the standard since 1984, nor revised the standard since it was promulgated in 1971.

3. By failing to conduct a review at least once every eight years, EPA has violated and is in continuing violation of the Clean Air Act, 42 U.S.C. § 7411(b)(1)(B).

4. The relief requested herein would compel EPA to review its NSPS regulation for nitric acid plants. This review is the only means to ensure that nitric acid plants are subject to emission limitations that reflect current scientific and technical knowledge that adequately protect public health and welfare.

II. JURISDICTION AND VENUE

5. This Court has subject matter jurisdiction over the claims set forth in this complaint pursuant to 42 U.S.C. § 7604(a)(2) (citizen suit) and 28 U.S.C. § 1361 (mandamus action), § 2201 (declaratory relief), and § 2202 (further relief).

6. Venue lies in the U.S. District Court for the District of Columbia pursuant to 42 U.S.C. § 7604(a) and 28 U.S.C. § 1391(b) and (e).

7. On October 7, 2008, Plaintiffs served notice on EPA of the matters complained of below in accordance with the sixty-day notice requirement set forth in 42 U.S.C. § 7604(b)(2). The notice is attached as Exhibit A.

III. PLAINTIFFS

8. Plaintiff Environmental Integrity Project ("EIP") is a 501(c)(3) non-profit organization that advocates for more effective implementation and enforcement of environmental

laws, and it has offices in Washington, DC and Austin, Texas. One of EIP's primary initiatives is to reduce ongoing air pollution from facilities that do not have up-to-date air pollution controls.

9. Plaintiff Sierra Club is a 501(c)(3) non-profit organization dedicated to protecting and restoring the quality of the natural and human environment, including air quality. Through its Clean Air Program, Sierra Club works to protect the basic right of clean air for all Americans. Sierra Club has approximately 1.3 million members, as well as sixty-three Chapters and twenty-seven Field Offices, throughout the United States. Sierra Club brings this action on behalf of itself and its members.

10. EIP and Sierra Club each have an organizational interest in protecting air quality because this is part of the basic mission of these organizations, and because they are currently implementing initiatives and strategies to improve air quality throughout the United States. This organizational interest has been and continues to be injured by EPA's failure to comply with its statutory obligation to review the NSPS for nitric acid plants at least once every eight years.

11. EIP and Sierra Club also have an organizational interest in providing scientific, technical, and other information to EPA concerning the adequacy of the NSPS for nitric acid plants in protecting public health and welfare. Both organizations routinely submit public comments to federal and state agencies as a means of ensuring that they are effectively implementing the Clean Air Act and protecting air quality. Because EPA has failed to conduct a review of the NSPS for nitric acid plants for the past twenty-four years, however, EIP and Sierra Club have been injured in that they have been denied a meaningful opportunity to provide such information to EPA.

12. Many of Sierra Club's members reside in, work in, or regularly visit and use the areas adversely affected by air pollution from nitric acid plants. EPA's ongoing violation of the Clean Air Act, as described in more detail below, has injured and continues to injure the health-

related, aesthetic, recreational, environmental, and economic interests of Sierra Club's members, including but not limited to their interests in: (1) breathing clean air; (2) avoiding health impacts caused, in whole or in part, by air pollutants emitted from nitric acid plants; (3) enjoying recreational and other activities in their homes, gardens, and yards, as well as in nearby parks, lakes, rivers, forests, wetlands, and other areas, without the degradation and health threats caused, in whole or in part, by air pollutants emitted from nitric acid plants; (4) viewing natural scenery, wildlife, city skylines, landmarks, and other vistas without having their visibility obscured by the smog and haze caused, in whole or in part, by air pollutants emitted from nitric acid plants; and (5) avoiding economic costs, including but not limited to diminished property values, that are caused, in whole or in part, by air pollutants emitted from nitric acid plants.

IV. DEFENDANTS

13. Defendant United States Environmental Protection Agency is an agency of the United States.

14. Defendant Lisa Jackson is the Administrator of the United States Environmental Protection Agency, and she is being sued in her official capacity.

V. STATUTORY AND REGULATORY FRAMEWORK

15. The fundamental purpose of the Clean Air Act is to protect public health and welfare from the adverse impacts of air pollution. See 42 U.S.C. § 7401(b)(1).

16. Toward that end, the Clean Air Act directs EPA to promulgate "standards of performance" regulating emissions from listed categories of new and modified stationary sources that it has determined "cause[] or contribute[] significantly to, air pollution which may reasonably be anticipated to endanger public health or welfare." 42 U.S.C. § 7411(a)(2), (b)(1).

17. New source performance standards ("NSPS") are required to reflect "the degree of

emission-limitation achievable through the application of the best system of emission reduction which (taking into account the cost of achieving such reduction and any nonair quality health and environmental impact and energy requirements) [EPA] determines has been adequately demonstrated.” 42 U.S.C. § 7411(a)(1). This is commonly known as the “best demonstrated technology” or “BDT” standard.

18. In order to ensure that the BDT standard for each regulated industry reflects the current state of scientific knowledge and technological advances, the Clean Air Act provides that EPA “shall, at least every 8 years, review and, if appropriate, revise such standards[.]” 42 U.S.C. § 7411 (b)(1)(B). The only exception to this requirement allows EPA to forego a review when it “determines that such review is not appropriate in light of readily available information on the efficacy of such standard.” *Id.*

VI. STATEMENT OF FACTS

A. Background

19. Nitrogen oxide (NO_x) has many documented health effects. NO_x is the primary precursor to ozone. In March 2008, EPA strengthened the national ambient air quality standard for ozone after finding that the earlier standards were not stringent enough to protect public health. See 70 Fed. Reg. 16,436 (March 27, 2008) (codified at 40 C.F.R. parts 50, 58). According to EPA, ozone irritates the respiratory system; reduces lung function; aggravates asthma and causes more serious attacks; inflames and damages the cells that line the lungs; aggravates chronic lung diseases such as emphysema and bronchitis; reduces the immune system’s ability to fight off respiratory infections; and accelerates the decline in lung function that is part of the aging process in adults. In children, repeated exposure to ozone pollution can lead to reduced lung function in adulthood.

20. NO_x is also a precursor to fine particulate matter (PM 2.5), which has been shown to cause and aggravate respiratory and cardiovascular problems, including irritation of airways, coughing, and difficulty breathing; decreased lung function; asthma; chronic bronchitis; irregular heart beats; and heart attacks. As a result of these health problems, increased rates of premature death have been attributed to fine particle pollution.

21. Populations especially vulnerable to the health effects of both ozone and PM 2.5 include people with preexisting heart or lung diseases; children; communities in urban and industrial areas; senior citizens; and active people who exercise outdoors.

22. Besides health effects, NO_x and the ozone and PM 2.5 for which it is a precursor cause a number of environmental effects. These pollutants reduce visibility by contributing to haze; damage crops, forests, and other ecosystems; contribute to acid rain; and lead to nitrogen deposition and the eutrophication of water bodies.

23. EPA has long recognized the endangerment that NO_x emissions pose to human health and the environment, and EPA recognized that nitric acid plants were an important source of NO_x when it first promulgated the NSPS for nitric acid plants in 1971.

24. Current technologies can now achieve significantly greater NO_x reductions than the existing standard requires, and these technologies have been demonstrated to be both technically feasible and cost effective in practice.

25. Nitric acid plants also emit substantial quantities of nitrous oxide (N₂O), a very potent greenhouse gas with 310 times the global warming potential of carbon dioxide. Nitric acid plants are the largest industrial source of N₂O emissions, and they are the third leading source overall behind agricultural soil management and mobile source combustion. EPA estimates that, in 2006, nitric acid plants emitted approximately 55,000 tons of N₂O.

26. Technologies capable of substantially reducing N₂O pollution from nitric acid plants are readily available at a reasonable cost, and they have been demonstrated to be both technically feasible and cost effective in practice.

B. Regulatory History

27. EPA issued its NSPS regulation for nitric acid plants on December 23, 1971. See 40 C.F.R. pt. 60, subpt. G; 36 Fed. Reg. 24876 (Dec. 23, 1971).

28. EPA conducted reviews of the NSPS for nitric acid plant in 1979 and 1984. See 49 Fed. Reg. 13654 (April 5, 1984); 44 Fed. Reg. 35265 (June 19, 1979). We are informed and believe that EPA has not reviewed the NSPS for nitric acid plants at any time between 1984 and the present.

29. EPA has not revised the NO_x emission standard for nitric acid plants set forth in 40 C.F.R. § 60.72 since it was originally adopted in 1971, nor has EPA added standards for any other pollutant.

30. We are informed and believe that, in the time since its 1984 review, EPA has not made any determination that a subsequent review would not be appropriate in light of readily available information regarding the efficacy of the existing standard.

31. By failing to review its NSPS for nitric acid plants at any time within the past twenty-four years, contrary to its obligation under the Clean Air Act, EPA has failed to ensure that its regulations are adequately protecting public health and welfare from the adverse effects described above.

VII. CAUSE OF ACTION

32. Plaintiffs incorporate by reference and reallege the allegations contained in paragraphs 1 through 31 above for the cause of action set forth below.

33. EPA has failed to review the NSPS for nitric acid plants set forth in 40 C.F.R. Part 60, Subpart G at least once every eight years, as required under 42 U.S.C. § 7411(b)(1)(B), and EPA has not made any determination that such a review is unnecessary. Accordingly, EPA has violated and remains in continuing violation of 42 U.S.C. § 7411(b)(1)(B).

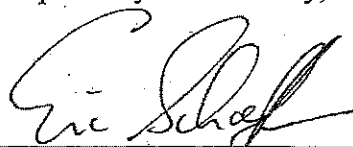
VIII. RELIEF REQUESTED

WHEREFORE, Plaintiffs respectfully request that the Court:

- A. Declare that EPA is in violation of its nondiscretionary duty to review the NSPS for nitric acid plants set forth in 40 C.F.R. Part 60, Subpart G, at least once every eight years, as required under 42 U.S.C. § 7411(b)(1)(B);
- B. Issue an order requiring EPA to complete a review of the NSPS for nitric acid plants and issue a proposed regulation, or a proposed determination that no revision is necessary, within one year from the date of the order, followed by a final rule within two years from the date of the order;
- C. Retain jurisdiction over this matter for purposes of enforcing and effectuating the order;
- D. Award Plaintiffs their costs of litigation, including their reasonable attorney and expert witness fees, as authorized under 42 U.S.C. § 7604(d); and
- E. Grant such other and further relief as the Court deems just and proper.

DATED: February 4, 2009

Respectfully submitted by,



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October 7, 2008

Via U.S. Mail and Email to johnson.stephen@epa.gov

The Honorable Stephen Johnson
Administrator, U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Washington DC, 20460

Re: Notice of Intent to Sue for Violation of Nondiscretionary Duty to Review New Source Performance Standard for Nitric Acid Plants Every Eight Years Under Section 111 of Clean Air Act

Dear Administrator Johnson:

On behalf of our clients Sierra Club and Environmental Integrity Project (“EIP”), and pursuant to 42 U.S.C. § 7604(b)(2), we are writing to provide you with notice of our intent to sue the U.S. Environmental Protection Agency (“EPA”) for its failure to review the new source performance standard (“NSPS”) for nitric acid plants set forth in 40 C.F.R. Subpart G at least once every eight years, as required under 42 U.S.C. § 7411(b)(1)(B). The persons giving notice by means of this letter are:

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I. BACKGROUND

Congress created the NSPS program as part of the Clean Air Act amendments of 1970.¹ Under this program, EPA is required to promulgate federal “standards of performance” as a means to control air pollution from “new” stationary sources within various listed categories.² Nitric acid

¹ See Clean Air Act Amendments of 1970, Pub. L. No. 91-604, 84 Stat. 1683 (Dec. 31, 1970).

² Clean Air Act, 42 U.S.C. § 7411 (b)(1)(B).

plants are considered “new” if they were constructed, modified, or reconstructed after EPA issued its proposed NSPS regulation for nitric acid plants in August 1971.³

The “standard of performance” required by the Clean Air Act is a “standard for emissions of air pollutants which reflects the degree of emission limitation achievable through the application of the best system of emission reduction which (taking into account the cost of achieving such reduction and any nonair quality health and environmental impact and energy requirements) the Administrator determines has been adequately demonstrated.”⁴ In common parlance, the NSPS must be based upon “best demonstrated technology” or “BDT.”⁵

II. EPA HAS VIOLATED ITS MANDATORY DUTY TO REVIEW THE NSPS FOR NITRIC ACID PLANTS AT LEAST ONCE EVERY EIGHT YEARS.

The Clean Air Act provides that EPA “shall, at least every 8 years, review” the NSPS for each industrial source category listed in its regulations.⁶ It is well established that this type of language creates a mandatory duty to act. Indeed, when the Clean Air Act sets forth a “bright-line rule for agency action,” such as a deadline for periodic reviews, “there is no room for debate—congress has prescribed a categorical mandate that deprives EPA of all discretion over the timing of its work.”⁷

As noted above, the NSPS for nitric acid plants was promulgated in 1971.⁸ The information available to us indicates that EPA has only reviewed this NSPS twice — once in 1979 and once in 1984.⁹ As the last review was conducted twenty-four years ago, a review of Subpart G is now

³ See 42 U.S.C. § 7411(a)(2), (b)(1); Review of Standards of Performance for New Stationary Sources – Nitric Acid Plants, 49 Fed. Reg. 13654, 13654 (Apr. 5, 1984); Part 60 – Standards of Performance for New Stationary Sources, 36 Fed. Reg. 24876, 24876 (Dec. 23, 1971).

⁴ 42 U.S.C. § 7411(a)(1) (emphasis added).

⁵ See, e.g., Tenn. Valley Auth. v. Whitman, 336 F.3d 1236, 1244 n.14 (11th Cir. 2003), reh’g denied 82 Fed. Appx. 220 (11th Cir. 2003), cert. denied 541 U.S. 1030 (2004) (explaining that “[t]he NSPS program requires that the EPA issue federal performance standards based upon the best demonstrated technology ...”) (emphasis added).

⁶ 42 U.S.C. § 7411(b)(1)(B).

⁷ American Lung Ass’n. v. Reilly, 962 F.2d 258, 263 (2d Cir. 1992) (citing Sierra Club v. Thomas, 828 F.2d 783, 791 (D.C. Cir. 1987)). See Env’tl. Defense Fund v. Thomas, 870 F.2d 892, 897 (2d Cir. 1989), cert. denied 1989 (explaining that the “revision provisions” of the Clean Air Act that “include stated deadlines should, as a rule, be construed as creating non-discretionary duties” and holding that EPA had a nondiscretionary duty to make a formal decision as to whether or not it would revise the NAAQS for sulfur oxides) (internal citations omitted).

⁸ See Part 60, 36 Fed. Reg. at 24876, 24881.

⁹ See generally Review, 49 Fed. Reg. 13654; EPA OAQPS, REVIEW OF NEW SOURCE PERFORMANCE STANDARDS FOR NITRIC ACID PLANTS, EPA-450/3-84-011 (Apr. 1984); Review of Standards of Performance for New Stationary Sources: Nitric Acid Plants, 44 Fed. Reg. 35265 (June 19, 1979); MARVIN DRABKIN, A REVIEW OF STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES – NITRIC ACID PLANTS, EPA-450/3-79-013 (Mar. 1979).

sixteen years overdue.¹⁰ Accordingly, EPA is in violation of its nondiscretionary duty to review Subpart G at least once every eight years.¹¹

The foregoing establishes that EPA has clearly violated a nondiscretionary duty within the meaning of 42 U.S.C. § 7604(a)(2) and 40 C.F.R. § 54.3(a). The remainder of this notice letter will explain why it will not be acceptable for EPA to conduct a cursory review, to determine that no review is necessary, or to delay its review any further. Moreover, for the reasons discussed below, EPA must ultimately revise the existing NSPS for nitric acid plants to reflect the current best demonstrated technology for controlling nitrogen oxide (“NO_x”) emissions, as well as to incorporate a new standard based on the best demonstrated technology for controlling nitrous oxide (“N₂O”) emissions.¹²

III. THE EXISTING NO_x STANDARD IS IN NEED OF REVIEW AND REVISION.

A. The Existing NO_x Standard Is Based on Outdated Technology That No Longer Constitutes the Best Demonstrated Technology.

In promulgating the 1971 standard for nitric acid plants, EPA relied heavily on a study of catalytic reduction control technology that was published in 1966, i.e., data that is now forty-two years old.¹³ According to this data, the existing standard requires NO_x emissions to be reduced by roughly 93 percent below the emissions produced by an uncontrolled facility.¹⁴ Although

¹⁰ Since 1971, EPA has made no changes to the NO_x emission standard in 40 C.F.R. § 60.72, nor has it added standards for any other pollutants. EPA has issued a few technical and clarifying amendments to Subpart G. *See, e.g.*, Standards of Performance for New Stationary Sources – Amendments to Test Methods and Procedures, 54 Fed. Reg. 6660, 6666 (Feb. 14, 1989) (consolidating and clarifying provisions of §§ 60.73 and 60.74 relating to test methods and emphasizing that “[t]his rulemaking does not impose emission measurement requirements beyond those specified in the current regulations, nor does it change any emission standard”). However, none of these changes demonstrate that EPA has conducted the necessary “review” or made an appropriate “revision” of the substantive NO_x standard within the meaning of the Clean Air Act.

¹¹ The Clean Air Act establishes only one exemption to the eight-year review requirement, which is not applicable here. Under the Act, EPA “need not review any [performance] standard” if EPA “determines that such review is not appropriate in light of readily available information on the efficacy of such standard.” 42 U.S.C. § 7411(b)(1)(B). Our research has not disclosed any notice of such a determination in the Federal Register. Moreover, we submitted a FOIA request to EPA seeking records relating to “reviews of the NSPS requirements for nitric acid plants” in August 2008. EPA’s response in September 2008 did not identify or provide records relating to any such determination.

¹² *See* 42 U.S.C. § 7411(b)(1)(B) (providing that EPA “shall, at least every 8 years, review and, if appropriate, revise” the NSPS for each industrial source category listed in its regulations) (emphasis added).

¹³ *See* EPA OFFICE OF AIR PROGRAMS, BACKGROUND INFORMATION FOR PROPOSED NEW-SOURCE PERFORMANCE STANDARDS: STEAM GENERATORS, INCINERATORS, PORTLAND CEMENT PLANTS, NITRIC ACID PLANTS, SULFURIC ACID PLANTS, Tech. Report No. EPA/APTD-0711, at 39, 42 (Aug. 1971) (referencing Gerstle, R.W. and R.F. Peterson, U.S. DHEW, PHS, Division of Air Pollution, *Atmospheric Emissions from Nitric Acid Manufacturing Processes*, PHS Public. No. 999-AP-27 (1966)).

¹⁴ *See id.* at 38.

EPA has since conducted two reviews, the 1971 performance standard for nitric acid plants has never been revised.¹⁵

In 1991, however, EPA issued a report discussing the various control technologies that were available at that time for controlling NO_x emissions from nitric acid plants.¹⁶ The report explained that “[s]everal control technologies have been demonstrated that reduce NO_x emissions from nitric acid manufacturing plants,” including “(1) extended absorption, (2) nonselective catalytic reduction, and (3) selective catalytic reduction.”¹⁷ The report also concluded that these three technologies achieved average reductions of roughly 95 to 98 percent, which substantially exceeds the 93 percent reduction required under the 1971 standard.¹⁸ The 1991 report further observed that “[a]ll three of these control techniques are suitable for new and existing plant applications.”¹⁹

Seven years later, in 1998, EPA revised its Air Pollutant Emission Factors reference document for nitric acid plants.²⁰ The following excerpts show that technologies readily available ten years ago were capable of achieving substantially greater NO_x reductions than the existing standard requires:

<u>Average Emission Factor kg (NO_x) / Mg (100% HNO₃)²¹</u>	
Existing NSPS	1.5
Extended absorber	0.590
Extended absorber with caustic scrubber	0.920
<u>Average Emission Factor lb (NO_x) / ton (100% HNO₃)²²</u>	
Existing NSPS	3.0
Extended absorption	1.179
Extended absorber with caustic scrubber	1.84

¹⁵ The existing NSPS prohibits nitric acid plants from emitting “nitrogen oxides, expressed as NO₂, in excess of 1.5 kg per metric ton of acid produced (3.0 lb per ton), the production being expressed as 100 percent nitric acid.” 40 C.F.R. § 60.72(a)(1) (2008).

¹⁶ See generally EPA OAQPS, ALTERNATIVE CONTROL TECHNIQUES DOCUMENT – NITRIC AND ADIPIC ACID MANUFACTURING PLANTS, EPA-450/3-91-026 (Dec. 1991). This report was not prepared in connection with an NSPS review for nitric acid plants. Instead, it was meant to “provide[] technical information for use by State and local agencies to control NO_x emissions from nitric and adipic acid manufacturing facilities.” *Id.* at 2-1.

¹⁷ *Id.* at 5-1 (emphasis added).

¹⁸ See *id.* at 5-31.

¹⁹ *Id.* at 5-1.

²⁰ See EPA OAQPS, COMPILATION OF AIR POLLUTANT EMISSION FACTORS, VOLUME I: STATIONARY POINT AND AREA SOURCES, AP-42 (5th ed. Jan. 1995), Ch. 8.8 Nitric Acid (rev. Feb. 1998).

²¹ See *id.* (Attachment) PACIFIC ENVTL. SERVS., BACKGROUND REPORT AP-42 SECTION 5.9, NITRIC ACID (Jan. 1996), at 27, tbl. 4.2-1.

²² See *id.* at 28, tbl. 4.2-1.

These are just a few examples from a wealth of information demonstrating that the NSPS for nitric acid plants is outdated and in need of both review and revision.

Under the Clean Air Act, when it becomes apparent that emission reductions “beyond those required by the standards ... are achieved in practice,” then EPA “shall ... consider” the reductions achieved in practice when revising the NSPS for a particular source category.²³ As explained above, there is ample evidence that many members of the nitric acid industry are achieving greater reduction than the existing NSPS requires. This indicates that the 1971 standard is outdated and does not reflect the best demonstrated technology.

As discussed above, EPA has a mandatory duty to review the NSPS for nitric acid plants. In doing so, it must take into account the data showing that many members of the nitric acid industry routinely achieve greater reduction in practice than the existing standard requires. We anticipate that EPA’s review will, in fact, show that further advancements in technology have taken place since the 1990s and that even greater NO_x reductions are now readily achievable. More generally, EPA must conduct a thorough review of all of the control technologies that have been developed or improved since its last review in 1984, and it must do so without any further delay.

Ultimately, EPA must revise the performance standard for nitric acid plants to ensure that it is based on the “best system of emission reduction ... adequately demonstrated.”²⁴ The fact that there are several readily available technologies capable of reducing NO_x emissions beyond what is required under the existing NSPS provides strong evidence that the existing standard is inadequate.

B. The Adverse Impacts of NO_x Are Much Greater Than Previously Known, and Other Air Programs Are Not Adequately Addressing Them.

Although the NSPS program uses a technology-based, rather than health-based, approach for controlling air pollution, the fundamental goal of the NSPS program is to reduce air pollution which “may reasonably be anticipated to endanger public health or welfare.”²⁵ In the twenty-four years since the NSPS for nitric acid plants was last reviewed, EPA’s understanding of the adverse health and welfare impacts from NO_x, particularly as a precursor to fine particulate matter and ground-level ozone, has improved dramatically.

For instance, at the time of the 1984 review, the national ambient air quality standard (“NAAQS”) for particulate matter did not distinguish between fine and coarse particulate matter. During the 1990s, however, it became clear that the existing NAAQS was not adequate to protect human health and that fine particulates posed distinct and significant health risks. As EPA has explained,

²³ 42 U.S.C. § 7411(b)(1)(B).

²⁴ *Id.* § 7411(a)(1).

²⁵ *Id.* § 7411(b)(1)(A).

By 1996, evidence had accumulated that suggested day-to-day exposures to ambient particulate matter (PM) at or near the level of the then current National Ambient Air Quality Standards (NAAQS) were eliciting significant human health effects in the U.S. population, including hospitalizations and attributable deaths. This evidence led to the promulgation of PM NAAQS in 1997 that included new standards for PM smaller than 2.5 μm in aerodynamic diameter (PM_{2.5}).²⁶

Remaining uncertainties and concerns led to substantial federal funding for additional research.²⁷ Based on several years of intensive research thereafter, EPA concluded that there was even stronger evidence that “ambient PM_{2.5}, alone and in combination with other pollutants, is causally linked with cardiovascular, respiratory, and lung cancer associations observed in epidemiologic studies,” particularly for vulnerable subpopulations, such as the elderly, children, asthmatics, and people with preexisting heart or lung conditions.²⁸ Accordingly, in 2006, EPA revised the 1997 NAAQS for fine particulate matter to make it more protective of human health.²⁹ Similar advances have been made in EPA’s understanding of the health and welfare impacts associated with ground-level ozone, for which NO_x emissions are also a precursor.³⁰

Despite EPA’s increasing scientific understanding of the adverse health and welfare impacts resulting from NO_x precursor emissions, however, federal and state regulatory programs have not adequately addressed these problems. Today, 208 counties remain in nonattainment for the PM_{2.5} standard, and 293 counties are in nonattainment for the ozone 8-hour standard.³¹ EPA attempted to bring many of these areas into attainment by adopting the Clean Air Interstate Rule (“CAIR”) in 2005.³² Unfortunately, the D.C. Circuit recently vacated CAIR in its entirety, creating a great deal of uncertainty and leaving NO_x inadequately regulated for the foreseeable future.³³

In addition, contrary to EPA’s findings in its 1997 and 2006 rulemakings regarding the distinct and serious health problems associated with PM_{2.5}, EPA has recently waived and delayed compliance with the PM_{2.5} NAAQS for new major sources subject to the new source review

²⁶ EPA OFFICE OF RESEARCH AND DEVELOPMENT, PARTICULATE MATTER RESEARCH PROGRAM: FIVE YEARS OF PROGRESS, EPA 600/R-04/058, at 1 (July 2004).

²⁷ See *id.*

²⁸ National Ambient Air Quality Standards for Particulate Matter, 71 Fed. Reg. 61144, 61153 (Oct. 17, 2006).

²⁹ See *id.* at 61161.

³⁰ See, e.g., EPA OFFICE OF RESEARCH AND DEVELOPMENT, AIR QUALITY CRITERIA FOR OZONE AND RELATED PHOTOCHEMICAL OXIDANTS, EPA 600/R-05/004aF (Feb. 2006).

³¹ See Nonattainment Areas Map – Criteria Air Pollutants, <http://www.epa.gov/air/data/nonat.html?us~usa~United%20States> (last visited Sept. 22, 2008).

³² See Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Clean Air Interstate Rule), 70 Fed. Reg. 25162, 25162 (May 12, 2005).

³³ See *North Carolina v. EPA*, 531 F.3d 896, 901 (D.C. Cir. July 11, 2008).

(“NSR”) program.³⁴ This decision has been criticized as unlawful and as posing a serious threat to the health of millions of Americans.³⁵

In short, there is overwhelming scientific evidence of serious health and welfare impacts from NO_x precursor emissions, and federal and state programs are not adequately regulating these emissions. Both of these circumstances underscore the importance of reviewing and updating the NO_x standard for nitric acid plants within the NSPS program.

C. The Existing NO_x Standard Does Not Cover Plants Producing Strong Nitric Acid.

The NSPS for nitric acid plants only governs “weak nitric acid” plants, i.e., those producing acid “which is 30 to 70 percent in strength.”³⁶ Given the improvements in control technology and scientific understanding of the health and welfare impacts resulting from NO_x emissions that have arisen in the past twenty-four years, as discussed above, EPA should expand its rule to cover all of the nitric acid plants in the United States.

IV. AS PART OF ITS REVIEW, EPA MUST CONSIDER LIMITING N₂O EMISSIONS FROM NITRIC ACID PLANTS, AND IT MUST ULTIMATELY REVISE THE NSPS TO INCLUDE AN N₂O STANDARD.

In addition to NO_x, nitric acid plants emit substantial quantities of nitrous oxide (“N₂O”), which has become a concern in recent years because of its climate change impacts. EPA is obligated to regulate a source category under the NSPS program if it “contributes significantly” to “air pollution which may reasonably be anticipated to endanger public health or welfare.”³⁷ For the reasons discussed below, N₂O emissions from nitric acid plants easily satisfy both of these criteria. Moreover, there is abundant evidence that N₂O control technologies are both technically and economically feasible. Thus, EPA has an obligation to, first, consider NO_x controls as part of its NSPS review for nitric acid plants and, then, to establish an N₂O standard at the conclusion of its review.

³⁴ See Implementation of the New Source Review (NSR) Program for Particulate Matter Less Than 2.5 Micrometers (PM_{2.5}), 73 Fed. Reg. 28321 (May 16, 2008).

³⁵ See Natural Resources Defense Council v. EPA, Civ. No. 08-1250, Environmental Petitioners’ Motion for Stay Pending Review (D.C. Cir. Aug. 18, 2008).

³⁶ 40 C.F.R. §§ 60.70, 60.71 (2008).

³⁷ 42 U.S.C. § 7411(b)(1)(A).

It should be noted that EPA has routinely set NSPS standards for non-criteria pollutants in the past, indicating that its NSPS reviews are not limited solely to criteria pollutants.³⁸ It has also been common practice for EPA to consider new pollutants beyond those covered by the original regulation.³⁹ Thus, a pollutant's omission from the original NSPS promulgation for a particular source category does not preclude EPA from considering it during an eight-year review.

A. Climate Change Endangers Public Health and Welfare.

In May of 2008, the federal government issued two scientific reports detailing the public health and welfare impacts of climate change.⁴⁰ The following are just a few examples of the impacts that multiple federal agencies have concluded are already occurring and will continue to occur as a result of climate change:

Heat Stress-Related Deaths: "It is *very likely* that heat-related morbidity and mortality will increase over the coming decades High temperatures tend to exacerbate chronic health conditions. An increased frequency and severity of heat waves is expected, leading to more illness and death, particularly among the young, elderly, frail, and poor."⁴¹

Infectious Diseases: "Climate change is *likely* to increase the risk and geographic spread of vector-borne infectious diseases, including Lyme disease and West Nile virus."⁴²

³⁸ See, e.g., Standards of Performance for New Stationary Sources and Emission Guidelines for Existing Sources – Municipal Waste Combustors, 60 Fed. Reg. 65387, 65416 (Dec. 19, 1995) (setting cadmium emission standards for municipal waste combustors); Standards of Performance for New Stationary Sources – Flexible Vinyl and Urethane Coating and Printing, 49 Fed. Reg. 26884, 26893 (June 19, 1984) (setting VOC emission standards for flexible vinyl and urethane coating and printing industry); Standards of Performance for New Stationary Sources – Kraft Pulp Mills, 43 Fed. Reg. 7568, 7573 (Feb. 23, 1978) (setting total reduced sulfur standards for kraft pulp mills); Standards of Performance for New Stationary Sources – Primary Aluminum Industry, 41 Fed. Reg. 3826, 3828 (Jan. 26, 1976) (setting fluoride emission standards for aluminum reduction plants).

³⁹ See, e.g., Standards of Performance for Petroleum Refineries, 72 Fed. Reg. 27178, 27180 (May 14, 2007) (setting a new NO_x emission standard for fluid catalytic cracking units, which previously were regulated only for sulfur oxide); Standards of Performance for Stationary Combustion Turbines, 70 Fed. Reg. 8314, 8320-21 (Feb. 18, 2005) (considering whether to establish limits for CO, VOC, and PM emissions for stationary combustion turbines for the first time); Standards of Performance for New Stationary Sources; Industrial-Commercial-Institutional Steam Generating Units, 49 Fed. Reg. 25102, 25106-07 (June 19, 1984) (considering whether to set new standards for CO and SO₂ emissions for certain steam generating units).

⁴⁰ See NATIONAL SCIENCE AND TECHNOLOGY COUNCIL, SCIENTIFIC ASSESSMENT OF THE EFFECTS OF GLOBAL CLIMATE CHANGE ON THE UNITED STATES (May 2008); U.S. CLIMATE CHANGE SCIENCE PROGRAM, THE EFFECTS OF CLIMATE CHANGE ON AGRICULTURE, LAND RESOURCES, WATER RESOURCES, AND BIODIVERSITY IN THE UNITED STATES, SYNTHESIS AND ASSESSMENT PRODUCT (May 2008).

⁴¹ NSTC, SCIENTIFIC ASSESSMENT, at 14 (emphasis in original).

⁴² *Id.* at 15 (emphasis in original).

Air Pollutant-Related Diseases: “In studies holding pollution emissions constant, climate change was found to lead to increases in regional ground-level ozone pollution in the United States and other countries. It is well-documented that breathing air containing ozone can reduce lung function, increase susceptibility to respiratory infection, and contribute to premature death in people with heart and lung disease.”⁴³

Storms and Flooding: “Coastal population increases together with *likely* increases in hurricane rainfall and wind speeds and greater storm surge due to sea level rise will continue to increase coastal vulnerabilities in the Southeast and Gulf Coast. Urban centers that were once assumed to have a high adaptive capacity remain vulnerable to extreme events such as hurricanes.”⁴⁴

Drought and Water Shortages: “Less reliable supplies of water are expected to create challenges for managing urban water systems as well as for industries that depend on large volumes of water.”⁴⁵

Wildfires: “[W]ildfires have increased in extent and severity in recent years and are *very likely* to intensify in a warmer future. At the same time, the population has been expanding into fire-prone areas, increasing society’s vulnerability to wildfire. ... Wildfires, with their associated decrements to air quality and pulmonary effects, are likely to increase in frequency, severity, distribution, and duration in the Southeast, the Intermountain West and the West.”⁴⁶

Societal Disturbances: “Globally, the most vulnerable industries, settlements, and societies are generally those in coastal and river flood plains, those whose economies are closely linked with climate-sensitive resources, and those in areas prone to extreme weather events, especially in places that are being rapidly urbanized. Poor communities can be especially vulnerable, particularly those concentrated in high-risk areas.”⁴⁷

In light of this overwhelming body of evidence and scientific consensus, the U.S. Supreme Court recently acknowledged that “[t]he harms associated with climate change are serious and well recognized” and that “EPA’s steadfast refusal to regulate greenhouse gas emissions presents a risk of harm to Massachusetts that is both ‘actual’ and ‘imminent.’”⁴⁸ Moreover, it is well known that EPA has, in fact, prepared a comprehensive endangerment finding that would serve as a basis for regulating greenhouse gas emissions, but that it has not yet been released to the public.⁴⁹

⁴³ Id.

⁴⁴ Id. at 14 (emphasis in original).

⁴⁵ Id. at 12.

⁴⁶ Id. at 14-16 (emphasis in original).

⁴⁷ Id. at 13.

⁴⁸ Massachusetts v. EPA, 127 S.Ct. 1438, 1455 (2007).

⁴⁹ See, e.g., Letter from Rep. Henry Waxman, Chairman of the Comm. on Oversight and Gov’t Reform, to Stephen Johnson, EPA Administrator (Mar. 13, 2008), available at <http://oversight.house.gov/documents/20080310110952.pdf>.

In short, the endangerment to public health and welfare from climate change is undeniable, and EPA will not be able to issue a legitimate non-endangerment finding. Accordingly, this factor weighs heavily in favor of a review and revision of the NSPS for nitric acid plants to incorporate an N₂O emission standard.

B. Nitric Acid Plants Contribute Significantly to Climate Change.

EPA's own website, and the numerous documents and reports compiled therein, proclaim the importance of nitrous oxide as a greenhouse gas.⁵⁰ For instance, EPA has determined that nitrous oxide is 310 times as potent as carbon dioxide in terms of its global warming potential,⁵¹ and it has observed that "[n]itrous oxide's chemical characteristics and interactions in the atmosphere contribute to its significance as a greenhouse gas."⁵² Moreover, EPA estimates that N₂O is the third largest contributor to U.S. greenhouse gas emissions after carbon dioxide and methane.⁵³

Similarly, EPA reports point to the nitric acid industry as being one of the most important sources of N₂O emissions in the United States. Nitric acid production is, by far, the largest industrial source of N₂O emissions.⁵⁴ And, overall, it is the third largest source of N₂O emissions, after agricultural soil management and mobile source combustion.⁵⁵

Accordingly, nitric acid plants contribute significantly to climate change and the harmful effects discussed above, and this factor weighs in favor of a review and revision of the NSPS for nitric acid plants.

C. It Is Technically and Economically Feasible to Reduce N₂O Emissions from Nitric Acid Plants.

Under the Clean Air Act, a standard of performance must be "achievable" and it must "take into account the cost of achieving such reduction."⁵⁶

⁵⁰ See, e.g., EPA, Nitrous Oxide, <http://www.epa.gov/nitrousoxide/index.html> (last visited Sept. 25, 2008); EPA, Nitrous Oxide: Science, <http://www.epa.gov/nitrousoxide/scientific.html> (last visited Sept. 25, 2008).

⁵¹ See EPA, GLOBAL MITIGATION OF NON-CO₂ GREENHOUSE GASES, at 1-3 (June 2006).

⁵² EPA, Nitrous Oxide: Science, <http://www.epa.gov/nitrousoxide/scientific.html> (last visited Sept. 25, 2008).

⁵³ See EPA, INVENTORY OF U.S. GREENHOUSE GAS EMISSIONS AND SINKS: 1990 – 2006, at ES-5 to ES-6, tbl. ES-2 (April 15, 2008).

⁵⁴ See *id.* at 4-2, tbl. 4-1.

⁵⁵ See *id.* at ES-5, tbl. ES-2.

⁵⁶ 42 U.S.C. § 7411(a)(1). The standard of performance should also take into account "any nonair quality health and environmental and energy requirements." *Id.* Our research has shown that the adverse environmental impacts and energy requirements of N₂O controls are negligible.

1. *Technical Feasibility*

The legal standard for what constitutes best demonstrated technology is very broad. For instance, courts have “recognized that section 111 ‘looks toward what may fairly be projected for the regulated future, rather than the state of the art at present.’”⁵⁷ In the case of N₂O emissions from nitric acid plants, however, it is not necessary to look toward the future. According to EPA’s own reports, the following seven technologies have already been shown to reduce N₂O emissions during the nitric acid production process:

<u>Name / Description</u>	<u>N₂O Reduction Efficiency (approx.)⁵⁸</u>
Non-selective catalytic reduction (“NSCR”)	80-90%
Grand Paroisse high temperature catalytic reduction method	78%
BASF high temperature catalytic reduction method	80%
Norsk Hydro high temperature catalytic reduction method	90%
HITK high temperature catalytic reduction method	100%
Krupp Uhde low temperature catalytic reduction method	95%
ECN low temperature selective catalytic reduction with propane addition	95%

NSCR systems were widely installed in nitric acid plants between the years 1971 to 1977 as a means to control NO_x emissions, and they are presently used by about 20 percent of nitric acid plants in the United States.⁵⁹ NSCR’s control of N₂O emissions, along with NO_x, has been a coincidental side benefit. Nevertheless, the fact that these systems have been successfully operated by many nitric acid plants for thirty years or more demonstrates the technical feasibility of controlling N₂O emissions from nitric acid plants.

Moreover, numerous countries outside the U.S. have successfully implemented a variety of N₂O control techniques in order to comply with their obligations under the Kyoto Protocol.⁶⁰ For instance, as part of a program analogous to the NSPS program, the European Commission determines the “best available techniques” or “BAT” for various industries based on a comprehensive data review and exchange process.⁶¹ For the nitric acid industry, the European Commission has determined that BAT involves the achievement of specified emission levels

⁵⁷ Lignite Energy Council v. EPA, 198 F.3d 930, 934 (D.C. Cir. 1999) (quoting Portland Cement Ass’n v. Ruckelshaus, 486 F.2d 375, 391 (D.C. Cir. 1973)).

⁵⁸ See EPA, INTERNATIONAL ANALYSIS OF METHANE AND NITROUS OXIDE ABATEMENT OPPORTUNITIES: REPORT TO ENERGY MODELING FORUM, WORKING GROUP 21, at Appendix C: Nitric Acid Production Sector (June 2003); EPA, INVENTORY OF U.S. GREENHOUSE GAS EMISSIONS, at 4-19 to 4-20.

⁵⁹ EPA, INVENTORY OF U.S. GREENHOUSE GAS EMISSIONS, at 4-20.

⁶⁰ A technology may be “adequately demonstrated” based on evidence drawn from other industries or other countries. See Lignite, 198 F.3d at 934 n.3.

⁶¹ See, e.g., EUROPEAN COMMISSION, DIRECTORATE-GENERAL JOINT RESEARCH CENTRE, INTEGRATED POLLUTION PREVENTION AND CONTROL, REFERENCE DOCUMENT ON BEST AVAILABLE TECHNIQUES FOR THE MANUFACTURE OF LARGE VOLUME INORGANIC CHEMICALS – AMMONIA, ACIDS AND FERTILISERS (Dec. 2006).

(0.12 – 0.6 kg/ton 100% HNO₃, or 20 – 100 ppmv, for new facilities; and 0.12 – 1.85 kg/ton 100% HNO₃, or 20-300 ppmv, for existing facilities) through the application of a combination of the following techniques and control technologies: (1) optimizing the filtration of raw materials; (2) optimizing the mixing of raw materials; (3) optimizing the gas distribution over the catalyst; (4) monitoring catalyst performance and adjusting the campaign length; (5) optimization of the NH₃/air ratio; (6) optimizing the pressure and temperature of the oxidation step; (7) N₂O decomposition by extension of the reactor chamber in new plants; (8) catalytic N₂O decomposition in the reactor chamber; and (9) combined NO_x and N₂O abatement in tail gases.⁶²

In short, it is indisputable that N₂O reductions are technically feasible. In its review, EPA will have many different options to choose from in determining which technology constitutes BDT. Moreover, EPA's review may very well identify additional technologies and strategies beyond those described above.

2. *Economic Feasibility*

It is equally clear that control technologies for N₂O are economically feasible. In a 2006 report, EPA sets forth detailed data for three types of N₂O emission control technology which shows that they are very cost-effective, as summarized below:

Control Technology	Total Capital Cost (per ton CO₂ equiv.)	Operating & Maintenance⁶³ Cost (per ton CO₂ equiv.)
High-temperature catalytic reduction	\$2.18 to \$3.27	\$0.14 to \$0.22
Low-temperature catalytic reduction	\$3.27 to \$3.55	\$0.27 to \$1.91
NSCR	\$6.27	\$0.16

Similarly, the European Commission's BAT analysis for various catalytic N₂O reduction strategies showed that these technologies are very cost-effective, ranging from 0.71 to 0.87 Euro (\$1.04 to \$1.28) per ton of CO₂ equivalent.⁶⁴

These costs are quite low compared to the cost of reducing other pollutants. For example, according to EPA, the overall costs associated with the wet scrubbers commonly used to control SO₂ emissions from power plants and other facilities ranges from \$200 to \$500 per ton of SO₂ for larger units, and from \$500 to \$5,000 per ton of SO₂ for smaller units, in 2001 dollars.⁶⁵

⁶² See *id.* at iv.

⁶³ EPA, GLOBAL MITIGATION, at IV-7 to IV-8.

⁶⁴ See EUROPEAN COMMISSION, REFERENCE DOCUMENT, at 124-25.

⁶⁵ See EPA CICA, AIR POLLUTION CONTROL TECHNOLOGY FACT SHEET: FLUE GAS DESULFURIZATION, EPA-452/F-03-034 (2003), available at <http://www.epa.gov/ttn/catc/dir1/ffdg.pdf>.

The cost-effectiveness of N₂O controls is further demonstrated by the fact that they are in use, not only in Europe and the United States, but also at nitric plants in developing countries, such as China, Pakistan, Chile, South Africa, South Korea, and Egypt.⁶⁶

D. EPA Must Revise Subpart G to Control N₂O Emissions from Nitric Acid Plants.

For all the reasons discussed above, (i) climate change endangers public health and welfare; (ii) N₂O emissions from nitric acid plants substantially contribute to the climate change problem; and (iii) numerous control technologies and strategies designed to reduce N₂O emissions at nitric acid plants are both technically and economically feasible. This compelling information not only triggers EPA's obligation to consider N₂O emissions in its review of the NSPS for nitric acid plants, it supports the actual adoption of such a standard at the conclusion of EPA's review process. While the review will surely develop these issues in more detail, EPA will not be able to provide a valid, reasoned basis for declining to incorporate an N₂O emission standard in its revised regulation.

V. PROMPT ACTION IS NEEDED BECAUSE THE NITRIC ACID INDUSTRY IS LIKELY TO EXPAND SUBSTANTIALLY IN THE NEXT 5 TO 10 YEARS.

Nitric acid is the principle ingredient in ammonium nitrate, a fertilizer used to grow corn. U.S. corn production is skyrocketing to meet the recent demand for corn-based ethanol.⁶⁷ More specifically, ethanol production increased from 3 billion gallons in 2003 to over 6 billion gallons in 2007.⁶⁸ Before the enactment of the Energy Independence and Security Act ("EISA") in December 2007, ethanol production was projected to reach 12 billion gallons by 2010, 13 billion by 2015, and over 14 billion by 2017.⁶⁹ Under the EISA, the U.S. government has now mandated ethanol production of at least 15 billion gallons by 2015, which represents an increase of 2 billion gallons over the previous estimate for this date.⁷⁰ In response to the EISA, EPA has increased the renewable fuel standard ("RFS") for 2008 from 4.66 to 7.76 percent.⁷¹

⁶⁶ See, e.g., UNITED NATIONS FCCC PROJECTS – PROJECT 1820: CHONGQING FUYUAN (HIGH PRESSURE) N₂O ABATEMENT PROJECT SUMMARY (China), PROJECT 0752: OMNIA FERTILIZER LIMITED NITROUS OXIDE (N₂O) REDUCTION PROJECT (South Africa), PROJECT 0557: CATALYTIC N₂O ABATEMENT PROJECT IN THE TAIL GAS OF THE NITRIC ACID PLANT OF THE PAKARAB FERTILIZER LTD. (PVT) IN MULTAN, PAKISTAN (Pakistan), available at <http://cdm.unfccc.int/Projects/registered.html>; UHDE, REFERENCES OF ENVINOX SYSTEMS (April 2008) (South Korea, Egypt, Pakistan, Chile, South Africa).

⁶⁷ U.S. Dept. Agric., AGRICULTURAL PROJECTIONS TO 2017, at 22 (Feb. 2008), available at <http://www.ers.usda.gov/Publications/OCE081/OCE20081.pdf>.

⁶⁸ See *id.*

⁶⁹ See *id.* at 22-23.

⁷⁰ See *id.* at 23.

⁷¹ Compare Renewable Fuel Standard Under Section 211(o) of the Clean Air Act as Amended by the Energy Policy Act of 2005, 72 Fed. Reg. 66171, 66173 (Nov. 27, 2007) with Revised Renewable Fuel Standard for 2008, Issued Pursuant to Section 211(o) of the Clean Air Act as Amended by the Energy Independence and Security Act of 2007, 73 Fed. Reg. 8665, 8667 (Feb. 14, 2008).

The market for nitric acid and related chemicals to fertilize these new corn crops is likewise experiencing rapid growth. For instance, Terra Industries has been operating at nearly maximum capacity at its three U.S. nitric acid plants, and it is planning to reopen a fourth facility in Louisiana.⁷² According to Terra's CEO, Mike Bennett, "[t]he market views this as something more than simply a one-year or one-quarter phenomenon but rather a very extended cycle of higher crop production as farmers globally do there [*sic*] best to rebuild grain inventories."⁷³ Other nitrogen-based fertilizer companies have been reporting similar trends and ramped-up operations.⁷⁴

For several years, high natural gas prices limited U.S. nitric acid plants' ability to meet the demands of the ethanol boom. More recently, however, natural gas production in the U.S. has increased dramatically, prices have fallen, and these trends are projected to continue through at least 2014.⁷⁵ Longer-term projections show natural gas prices in the U.S. continuing to fall through 2020.⁷⁶ The increasing availability and lower prices of natural gas in the U.S. will help facilitate expansion in the nitrogenous fertilizer industry. In addition, the high cost of transporting nitric acid and ammonia over long distances from foreign suppliers creates a strong demand for locally produced fertilizer, and this will reinforce the growth of the U.S. nitric acid industry.⁷⁷

In light of the nitric acid industry's projected growth over the next five to ten years and beyond, prompt action is necessary to prevent additional harm to human health and welfare from the resulting increase in NO_x and N₂O emissions.

VI. CONCLUSION

Accordingly, EPA is subject to a clear statutory mandate to conduct a review of the NSPS for nitric acid plants. Moreover, strong evidence indicates that EPA's review of the existing NSPS for nitric acid plants will reveal the need for significant revisions. The existing standards for NO_x do not reflect best demonstrated technology, and there is a compelling need to reduce NO_x emissions in the U.S. in order to protect public health and welfare. In addition, the looming

⁷² See Dave Dreeszen, *Sioux City Journal*, *High Crop Demand Ups Terra Profits* (Sept. 16, 2008)

⁷³ *Id.*

⁷⁴ See, e.g., LSB INDUSTRIES, INC., ANNUAL REPORT (2007), available at http://www.lsb-okc.com/PDFs/LSB_2007AnnualReport.pdf; CF INDUSTRIES, ANNUAL REPORT (2007), available at http://media.corporate-ir.net/media_files/irol/19/190537/Reports/2007CFIAnnualReporta.pdf.

⁷⁵ See U.S. DEPT. ENERGY, ENERGY INFO. ADMIN., ENERGY IN BRIEF (June 11, 2008), available at http://tonto.eia.doe.gov/energy_in_brief/natural_gas_production.cfm; U.S. DEPT. ENERGY, MONTHLY NATURAL GAS PRODUCTION REPORT (Aug. 29, 2008), available at http://www.eia.doe.gov/pub/oil_gas/natural_gas/data_publications/natural_gas_monthly/current/pdf/ngm_all.pdf; U.S. DEPT. ENERGY, ANNUAL ENERGY OUTLOOK, DOE/EIA-0383 (June 2008), available at [http://www.eia.doe.gov/oiaf/aeo/pdf/0383\(2008\).pdf](http://www.eia.doe.gov/oiaf/aeo/pdf/0383(2008).pdf).

⁷⁶ See U.S. DEPT. ENERGY, ANNUAL ENERGY OUTLOOK.

⁷⁷ See U.S. DEPT. AGRIC., IMPACT OF RISING NATURAL GAS PRICES ON U.S. AMMONIA SUPPLY, at 12 (Aug. 2007) (explaining that "[a]mmonia is a hazardous material and it must be transferred in refrigerated vessels or in pressurized containers").

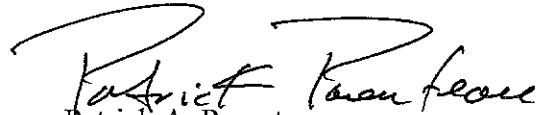
threat of climate change, combined with readily available and inexpensive N₂O controls, weighs heavily in favor of including an N₂O standard in the revised rule. Accordingly, on behalf of Sierra Club and EIP, we intend to sue EPA to compel compliance with its mandatory duty to review the NSPS for nitric acid plants set forth in 40 C.F.R. Subpart G.

If you have any questions or would like to discuss this matter further, please contact us by telephone at (802) 831-1630, or by email at tclemmer@vermontlaw.edu or pparenteau@vermontlaw.edu.

Very truly yours,



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Environmental and Natural Resources
Law Clinic



Patrick A. Parenteau
Senior Counsel
Environmental and Natural Resources
Law Clinic

cc: David Bookbinder, Chief Climate Counsel, Sierra Club
Eric Schaeffer, Executive Director, Environmental Integrity Project

JS-44
(Rev.1/05 DC)

<p>I (a) PLAINTIFFS</p> <p>(b) COUNTY OF RESIDENCE OF FIRST LISTED PLAINTIFF (EXCEPT IN U.S. PLAINTIFF CASES)</p> <p>(c) ATTORNEYS (FIRM NAME, ADDRESS, AND TELEPHONE NUMBER)</p>	<p>DEFENDANTS</p> <p>COUNTY OF RESIDENCE OF FIRST LISTED DEFENDANT (IN U.S. PLAINTIFF CASES ONLY)</p> <p>NOTE: IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE TRACT OF LAND INVOLVED</p> <p>ATTORNEYS (IF KNOWN)</p>
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<p>II. BASIS OF JURISDICTION (PLACE AN x IN ONE BOX ONLY)</p> <table style="width:100%;"> <tr> <td style="width:50%;">1 U.S. Government Plaintiff</td> <td style="width:50%;">3 Federal Question (U.S. Government Not a Party)</td> </tr> <tr> <td>2 U.S. Government Defendant</td> <td>4 Diversity (Indicate Citizenship of Parties in item III)</td> </tr> </table>	1 U.S. Government Plaintiff	3 Federal Question (U.S. Government Not a Party)	2 U.S. Government Defendant	4 Diversity (Indicate Citizenship of Parties in item III)	<p>III CITIZENSHIP OF PRINCIPAL PARTIES (PLACE AN x IN ONE BOX FOR PLAINTIFF AND ONE BOX FOR DEFENDANT) FOR DIVERSITY CASES ONLY!</p> <table style="width:100%; text-align: center;"> <thead> <tr> <th></th> <th>PTF</th> <th>DFT</th> <th></th> <th>PTF</th> <th>DFT</th> </tr> </thead> <tbody> <tr> <td>Citizen of this State</td> <td>1</td> <td>1</td> <td>Incorporated or Principal Place of Business in This State</td> <td>4</td> <td>4</td> </tr> <tr> <td>Citizen of Another State</td> <td>2</td> <td>2</td> <td>Incorporated and Principal Place of Business in Another State</td> <td>5</td> <td>5</td> </tr> <tr> <td>Citizen or Subject of a Foreign Country</td> <td>3</td> <td>3</td> <td>Foreign Nation</td> <td>6</td> <td>6</td> </tr> </tbody> </table>		PTF	DFT		PTF	DFT	Citizen of this State	1	1	Incorporated or Principal Place of Business in This State	4	4	Citizen of Another State	2	2	Incorporated and Principal Place of Business in Another State	5	5	Citizen or Subject of a Foreign Country	3	3	Foreign Nation	6	6
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Citizen or Subject of a Foreign Country	3	3	Foreign Nation	6	6																								

IV. CASE ASSIGNMENT AND NATURE OF SUIT

(Place a X in one category, A-N, that best represents your cause of action and one in a corresponding Nature of Suit)

<p>A. Antitrust</p> <p>410 Antitrust</p>	<p>B. Personal Injury/ Malpractice</p> <p>310 Airplane 315 Airplane Product Liability 320 Assault, Libel & Slander 330 Federal Employers Liability 340 Marine 345 Marine Product Liability 350 Motor Vehicle 355 Motor Vehicle Product Liability 360 Other Personal Injury 362 Medical Malpractice 365 Product Liability 368 Asbestos Product Liability</p>	<p>C. Administrative Agency Review</p> <p>151 Medicare Act</p> <p><u>Social Security:</u> 861 HIA ((1395ff) 862 Black Lung (923) 863 DIWC/DIWW (405(g) 864 SSID Title XVI 865 RSI (405(g)</p> <p><u>Other Statutes</u> 891 Agricultural Acts 892 Economic Stabilization Act 893 Environmental Matters 894 Energy Allocation Act 890 Other Statutory Actions (If Administrative Agency is Involved)</p>	<p>D. Temporary Restraining Order/Preliminary Injunction</p> <p>Any nature of suit from any category may be selected for this category of case assignment.</p> <p>*(If Antitrust, then A governs)*</p>
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E. General Civil (Other)

OR

F. Pro Se General Civil

<p><u>Real Property</u> 210 Land Condemnation 220 Foreclosure 230 Rent, Lease & Ejectment 240 Torts to Land 245 Tort Product Liability 290 All Other Real Property</p> <p><u>Personal Property</u> 370 Other Fraud 371 Truth in Lending 380 Other Personal Property Damage 385 Property Damage Product Liability</p>	<p><u>Bankruptcy</u> 422 Appeal 28 USC 158 423 Withdrawal 28 USC 157</p> <p><u>Prisoner Petitions</u> 535 Death Penalty 540 Mandamus & Other 550 Civil Rights 555 Prison Condition</p> <p><u>Property Rights</u> 820 Copyrights 830 Patent 840 Trademark</p> <p><u>Federal Tax Suits</u> 870 Taxes (US plaintiff or defendant 871 IRS-Third Party 26 USC 7609</p>	<p><u>Forfeiture/Penalty</u> 610 Agriculture 620 Other Food & Drug 625 Drug Related Seizure of Property 21 USC 881 630 Liquor Laws 640 RR & Truck 650 Airline Regs 660 Occupational Safety/Health 690 Other</p> <p><u>Other Statutes</u> 400 State Reapportionment 430 Banks & Banking 450 Commerce/ICC Rates/etc. 460 Deportation</p>	<p>470 Racketeer Influenced & Corrupt Organizations 480 Consumer Credit 490 Cable/Satellite TV 810 Selective Service 850 Securities/Commodities/ Exchange 875 Customer Challenge 12 USC 3410 900 Appeal of fee determination under equal access to Justice 950 Constitutionality of State Statutes 890 Other Statutory Actions (if not administrative agency review or Privacy Act</p>
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<p>G. Habeas Corpus/ 2255</p> <p>530 Habeas Corpus-General 510 Motion/Vacate Sentence</p>	<p>H. Employment Discrimination</p> <p>442 Civil Rights-Employment (criteria: race, gender/sex, national origin, discrimination, disability age, religion, retaliation)</p> <p>*(If pro se, select this deck)*</p>	<p>I. FOIA/PRIVACY ACT</p> <p>895 Freedom of Information Act 890 Other Statutory Actions (if Privacy Act)</p> <p>*(If pro se, select this deck)*</p>	<p>J. Student Loan</p> <p>152 Recovery of Defaulted Student Loans (excluding veterans)</p>
<p>K. Labor/ERISA (non-employment)</p> <p>710 Fair Labor Standards Act 720 Labor/Mgmt. Relations 730 Labor/Mgmt. Reporting & Disclosure Act 740 Labor Railway Act 790 Other Labor Litigation 791 Empl. Ret. Inc. Security Act</p>	<p>L. Other Civil Rights (non-employment)</p> <p>441 Voting (if not Voting Rights Act) 443 Housing/Accommodations 444 Welfare 440 Other Civil Rights 445 American w/Disabilities-Employment 446 Americans w/Disabilities-Other</p>	<p>M. Contract</p> <p>110 Insurance 120 Marine 130 Miller Act 140 Negotiable Instrument 150 Recovery of Overpayment & Enforcement of Judgment 153 Recovery of Overpayment of Veteran's Benefits 160 Stockholder's Suits 190 Other Contracts 195 Contract Product Liability 196 Franchise</p>	<p>N. Three-Judge Court</p> <p>441 Civil Rights-Voting (if Voting Rights Act)</p>

V. ORIGIN

- | | | | | | | |
|-----------------------|----------------------------|---------------------------------|--------------------------|---|-----------------------------|--|
| 1 Original Proceeding | 2 Removed from State Court | 3 Remanded from Appellate Court | 4 Reinstated or Reopened | 5 Transferred from another district (specify) | 6 Multi district Litigation | 7 Appeal to District Judge from Mag. Judge |
|-----------------------|----------------------------|---------------------------------|--------------------------|---|-----------------------------|--|

VI. CAUSE OF ACTION (CITE THE U.S. CIVIL STATUTE UNDER WHICH YOU ARE FILING AND WRITE A BRIEF STATEMENT OF CAUSE.)

VII. REQUESTED IN COMPLAINT CHECK IF THIS IS A CLASS ACTION UNDER F.R.C.P. 23 DEMAND \$ Check YES only if demanded in complaint

JURY DEMAND: YES NO

VIII. RELATED CASE(S) IF ANY (See instruction) YES NO If yes, please complete related case form.

DATE SIGNATURE OF ATTORNEY OF RECORD

INSTRUCTIONS FOR COMPLETING CIVIL COVER SHEET JS-44
Authority for Civil Cover Sheet

The JS-44 civil cover sheet and the information contained herein neither replaces nor supplements the filings and service of pleadings or other papers as required by law, except as provided by local rules of court. This form, approved by the Judicial Conference of the United States in September 1974, is required for the use of the Clerk of Court for the purpose of initiating the civil docket sheet. Consequently a civil cover sheet is submitted to the Clerk of Court for each civil complaint filed. Listed below are tips for completing the civil cover sheet. These tips coincide with the Roman Numerals on the Cover Sheet.

- I. COUNTY OF RESIDENCE OF FIRST LISTED PLAINTIFF/DEFENDANT (b) County of residence: Use 11001 to indicate plaintiff is resident of Washington, D.C.; 88888 if plaintiff is resident of the United States but not of Washington, D.C., and 99999 if plaintiff is outside the United States.
- III. CITIZENSHIP OF PRINCIPAL PARTIES: This section is completed only if diversity of citizenship was selected as the Basis of Jurisdiction under Section II.
- IV. CASE ASSIGNMENT AND NATURE OF SUIT: The assignment of a judge to your case will depend on the category you select that best represents the primary cause of action found in your complaint. You may select only one category. You must also select one corresponding nature of suit found under the category of case.
- VI. CAUSE OF ACTION: Cite the US Civil Statute under which you are filing and write a brief statement of the primary cause.
- VIII. RELATED CASES, IF ANY: If you indicated that there is a related case, you must complete a related case form, which may be obtained from the Clerk's Office.

Because of the need for accurate and complete information, you should ensure the accuracy of the information provided prior to signing the form.

JS-44
(Rev. 1/05 DC)

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09-218
EGS

I (a) PLAINTIFFS

ENVIRONMENTAL INTEGRITY PROJECT, and
SIERRA CLUB

(b) COUNTY OF RESIDENCE OF FIRST LISTED PLAINTIFF
(EXCEPT IN U.S. PLAINTIFF CASES)

11001

(c) ATTORNEYS (FIRM NAME, ADDRESS, AND TELEPHONE NUMBER)

Eric Schaeffer (D.C. Bar No. 427669) Environmental Integrity Project 1920 L Street, N.W., Ste 800 Washington, DC 20036 (202) 296-8800	Teresa Clemmer Environmental & Natural Resources Law Clinic P.O. Box 96, Chelsea St. South Royalton, VT 05069 (802) 831-1630
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DEFENDANTS

UNITED STATES ENVIRONMENTAL PROTECTION
AGENCY, and LISA JACKSON, EPA Administrator

COUNTY OF RESIDENCE OF FIRST LISTED DEFENDANT
(IN U.S. PLAINTIFF CASES ONLY) 11001

NOTE IN LAND CONDEMNATION CASES, USE THE LOCATION OF THE TRACT OF
LAND INVOLVED

Case: 1:09-cv-00218
Assigned To : Sullivan, Emmet G.
Assign. Date : 2/4/2009
Description: Admin. Agency Review

II. BASIS OF JURISDICTION
(PLACE AN x IN ONE BOX ONLY)

<input type="radio"/> 1 U.S. Government Plaintiff	<input type="radio"/> 3 Federal Question (U.S. Government Not a Party)
<input checked="" type="radio"/> 2 U.S. Government Defendant	<input type="radio"/> 4 Diversity (Indicate Citizenship of Parties in item III)

III CITIZENSHIP OF PRINCIPAL PARTIES (PLACE AN x IN ONE BOX FOR PLAINTIFF AND ONE BOX FOR DEFENDANT) **FOR DIVERSITY CASES ONLY!**

	PTF	DFT		PTF	DFT
Citizen of this State	<input type="radio"/> 1	<input type="radio"/> 1	Incorporated or Principal Place of Business in This State	<input type="radio"/> 4	<input type="radio"/> 4
Citizen of Another State	<input type="radio"/> 2	<input type="radio"/> 2	Incorporated and Principal Place of Business in Another State	<input type="radio"/> 5	<input type="radio"/> 5
Citizen or Subject of a Foreign Country	<input type="radio"/> 3	<input type="radio"/> 3	Foreign Nation	<input type="radio"/> 6	<input type="radio"/> 6

IV. CASE ASSIGNMENT AND NATURE OF SUIT

(Place a X in one category, A-N, that best represents your cause of action and one in a corresponding Nature of Suit)

<p><input type="radio"/> A. Antitrust</p> <p><input type="checkbox"/> 410 Antitrust</p>	<p><input type="radio"/> B. Personal Injury/Malpractice</p> <p><input type="checkbox"/> 310 Airplane</p> <p><input type="checkbox"/> 315 Airplane Product Liability</p> <p><input type="checkbox"/> 320 Assault, Libel & Slander</p> <p><input type="checkbox"/> 330 Federal Employers Liability</p> <p><input type="checkbox"/> 340 Marine</p> <p><input type="checkbox"/> 345 Marine Product Liability</p> <p><input type="checkbox"/> 350 Motor Vehicle</p> <p><input type="checkbox"/> 355 Motor Vehicle Product Liability</p> <p><input type="checkbox"/> 360 Other Personal Injury</p> <p><input type="checkbox"/> 362 Medical Malpractice</p> <p><input type="checkbox"/> 365 Product Liability</p> <p><input type="checkbox"/> 368 Asbestos Product Liability</p>	<p><input checked="" type="radio"/> C. Administrative Agency Review</p> <p><input type="checkbox"/> 151 Medicare Act</p> <p>Social Security:</p> <p><input type="checkbox"/> 861 HIA ((1395ff))</p> <p><input type="checkbox"/> 862 Black Lung (923)</p> <p><input type="checkbox"/> 863 DIWC/DIWW (405(g))</p> <p><input type="checkbox"/> 864 SSID Title XVI</p> <p><input type="checkbox"/> 865 RSI (405(g))</p> <p>Other Statutes</p> <p><input type="checkbox"/> 891 Agricultural Acts</p> <p><input type="checkbox"/> 892 Economic Stabilization Act</p> <p><input checked="" type="checkbox"/> 893 Environmental Matters</p> <p><input type="checkbox"/> 894 Energy Allocation Act</p> <p><input type="checkbox"/> 890 Other Statutory Actions (If Administrative Agency is Involved)</p>	<p><input type="radio"/> D. Temporary Restraining Order/Preliminary Injunction</p> <p>Any nature of suit from any category may be selected for this category of case assignment.</p> <p>*(If Antitrust, then A governs)*</p>
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<p><input type="radio"/> E. General Civil (Other)</p> <p>Real Property</p> <p><input type="checkbox"/> 210 Land Condemnation</p> <p><input type="checkbox"/> 220 Foreclosure</p> <p><input type="checkbox"/> 230 Rent, Lease & Ejectment</p> <p><input type="checkbox"/> 240 Torts to Land</p> <p><input type="checkbox"/> 245 Tort Product Liability</p> <p><input type="checkbox"/> 290 All Other Real Property</p> <p>Personal Property</p> <p><input type="checkbox"/> 370 Other Fraud</p> <p><input type="checkbox"/> 371 Truth in Lending</p> <p><input type="checkbox"/> 380 Other Personal Property Damage</p> <p><input type="checkbox"/> 385 Property Damage Product Liability</p>	<p style="text-align: center;">OR</p> <p><input type="radio"/> F. Pro Se General Civil</p> <p>Bankruptcy</p> <p><input type="checkbox"/> 422 Appeal 28 USC 158</p> <p><input type="checkbox"/> 423 Withdrawal 28 USC 157</p> <p>Prisoner Petitions</p> <p><input type="checkbox"/> 535 Death Penalty</p> <p><input type="checkbox"/> 540 Mandamus & Other</p> <p><input type="checkbox"/> 550 Civil Rights</p> <p><input type="checkbox"/> 555 Prison Condition</p> <p>Property Rights</p> <p><input type="checkbox"/> 820 Copyrights</p> <p><input type="checkbox"/> 830 Patent</p> <p><input type="checkbox"/> 840 Trademark</p> <p>Federal Tax Suits</p> <p><input type="checkbox"/> 870 Taxes (US plaintiff or defendant)</p> <p><input type="checkbox"/> 871 IRS-Third Party 26 USC 7609</p>	<p>Forfeiture/Penalty</p> <p><input type="checkbox"/> 610 Agriculture</p> <p><input type="checkbox"/> 620 Other Food & Drug</p> <p><input type="checkbox"/> 625 Drug Related Seizure of Property 21 USC 881</p> <p><input type="checkbox"/> 630 Liquor Laws</p> <p><input type="checkbox"/> 640 RR & Truck</p> <p><input type="checkbox"/> 650 Airline Regs</p> <p><input type="checkbox"/> 660 Occupational Safety/Health</p> <p><input type="checkbox"/> 690 Other</p> <p>Other Statutes</p> <p><input type="checkbox"/> 400 State Reapportionment</p> <p><input type="checkbox"/> 430 Banks & Banking</p> <p><input type="checkbox"/> 450 Commerce/ICC Rates/etc.</p> <p><input type="checkbox"/> 460 Deportation</p>	<p><input type="checkbox"/> 470 Racketeer Influenced & Corrupt Organizations</p> <p><input type="checkbox"/> 480 Consumer Credit</p> <p><input type="checkbox"/> 490 Cable/Satellite TV</p> <p><input type="checkbox"/> 810 Selective Service</p> <p><input type="checkbox"/> 850 Securities/Commodities/Exchange</p> <p><input type="checkbox"/> 875 Customer Challenge 12 USC 3410</p> <p><input type="checkbox"/> 900 Appeal of fee determination under equal access to Justice</p> <p><input type="checkbox"/> 950 Constitutionality of State Statutes</p> <p><input type="checkbox"/> 890 Other Statutory Actions (if not administrative agency review or Privacy Act)</p>
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<input type="radio"/> G. Habeas Corpus/ 2255 <input type="checkbox"/> 530 Habeas Corpus-General <input type="checkbox"/> 510 Motion/Vacate Sentence	<input type="radio"/> H. Employment Discrimination <input type="checkbox"/> 442 Civil Rights-Employment (criteria: race, gender/sex, national origin, discrimination, disability age, religion, retaliation) *(If pro se, select this deck)*	<input type="radio"/> I. FOIA/PRIVACY ACT <input type="checkbox"/> 895 Freedom of Information Act <input type="checkbox"/> 890 Other Statutory Actions (if Privacy Act) *(If pro se, select this deck)*	<input type="radio"/> J. Student Loan <input type="checkbox"/> 152 Recovery of Defaulted Student Loans (excluding veterans)
<input type="radio"/> K. Labor/ERISA (non-employment) <input type="checkbox"/> 710 Fair Labor Standards Act <input type="checkbox"/> 720 Labor/Mgmt. Relations <input type="checkbox"/> 730 Labor/Mgmt. Reporting & Disclosure Act <input type="checkbox"/> 740 Labor Railway Act <input type="checkbox"/> 790 Other Labor Litigation <input type="checkbox"/> 791 Empl. Ret. Inc. Security Act	<input type="radio"/> L. Other Civil Rights (non-employment) <input type="checkbox"/> 441 Voting (if not Voting Rights Act) <input type="checkbox"/> 443 Housing/Accommodations <input type="checkbox"/> 444 Welfare <input type="checkbox"/> 440 Other Civil Rights <input type="checkbox"/> 445 American w/Disabilities-Employment <input type="checkbox"/> 446 Americans w/Disabilities-Other	<input type="radio"/> M. Contract <input type="checkbox"/> 110 Insurance <input type="checkbox"/> 120 Marine <input type="checkbox"/> 130 Miller Act <input type="checkbox"/> 140 Negotiable Instrument <input type="checkbox"/> 150 Recovery of Overpayment & Enforcement of Judgment <input type="checkbox"/> 153 Recovery of Overpayment of Veteran's Benefits <input type="checkbox"/> 160 Stockholder's Suits <input type="checkbox"/> 190 Other Contracts <input type="checkbox"/> 195 Contract Product Liability <input type="checkbox"/> 196 Franchise	<input type="radio"/> N. Three-Judge Court <input type="checkbox"/> 441 Civil Rights-Voting (if Voting Rights Act)

V. ORIGIN

1 Original Proceeding
 2 Removed from State Court
 3 Remanded from Appellate Court
 4 Reinstated or Reopened
 5 Transferred from another district (specify)
 6 Multi district Litigation
 7 Appeal to District Judge from Mag. Judge

VI. CAUSE OF ACTION (CITE THE U.S. CIVIL STATUTE UNDER WHICH YOU ARE FILING AND WRITE A BRIEF STATEMENT OF CAUSE.)

Challenging EPA's failure to perform non-discretionary duties under 42 U.S.C. §§ 7411(b)(1)(B) and 7604(a)(2).

VII. REQUESTED IN COMPLAINT CHECK IF THIS IS A CLASS ACTION UNDER F.R.C.P. 23 **DEMAND \$** _____ Check YES only if demanded in complaint

JURY DEMAND: YES NO

VIII. RELATED CASE(S) IF ANY (See instruction) YES NO If yes, please complete related case form.

DATE 2/4/09 **SIGNATURE OF ATTORNEY OF RECORD** 

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