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June 27, 2006

Via Facsimile (202-501-1450), Email (Johnson.Stephen@epa.gov), and Hand Delivery With Original to Follow Via U.S. Mail

Stephen L. Johnson, Administrator
Office of the Administrator
U.S. Environmental Protection Agency
Ariel Rios Building, Room 3000
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Re: Petition for Reconsideration of Section 126 Rule (OAR-2004-0076)

Dear Mr. Johnson:

Please find enclosed a petition for reconsideration of EPA's final rule on North Carolina's petition brought under Section 126 of the Clean Air Act, *Rulemaking on Section 126 Petition From North Carolina To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Federal Implementation Plans To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Revisions to the Clean Air Interstate Rule; Revisions to the Acid Rain Program*, published in the Federal Register at 71 Fed. Reg. 25328 on April 28, 2006.

The EPA Office of General Counsel confirmed that filing this petition for reconsideration by facsimile would be acceptable. However, we have attempted to fax and your office's machine is not receiving. We understand the power is off at the Ariel Rios building because of flooding in Washington, DC. We are therefore transmitting this document to you via email and hand delivery, and following up with an original via U.S mail.

Thank you for your attention to this matter. Please do not hesitate to contact us with any questions at the telephone number above.

Sincerely,

John Suttles
Marily Nixon
Gudrun Thompson
Attorneys for Petitioners

cc: Mr. Richard Ossias
Associate General Counsel
Air and Radiation Law Office
Office of General Counsel
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Mr. Marc Bernstein, NCDOJ
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Enclosures

BEFORE THE ADMINISTRATOR
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

In the Matter of the Final Rule: Rulemaking on Section 126 Petition From North Carolina To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Federal Implementation Plans To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Revisions to the Clean Air Interstate Rule; Revisions to the Acid Rain Program	)	OAR-2004-0076

PETITION FOR RECONSIDERATION

Pursuant to Section 307(d)(7)(B) of the Clean Air Act ("the Act"), 42 U.S.C. § 7607(d)(7)(B), the Southern Environmental Law Center, Sierra Club, and Environment North Carolina hereby petition the Administrator of the Environmental Protection Agency ("the Administrator" or "EPA") to convene a proceeding for reconsideration of the final rule captioned above ("the Section 126 Rule") and published at 71 Fed. Reg. 25328 on April 28, 2006, to be codified at 40 C.F.R. Parts 51, 52, 72, 73, 74, 78, 96, and 97.

As detailed below, there are three issues on which it was impracticable to raise objections during the period provided for public comment and for which the grounds for objection arose after the period for public comment. These issues are "of central relevance to the outcome of the rule," 42 U.S.C. § 7607(d)(7)(B), because they demonstrate that the agency's final rule violates the Clean Air Act. Thus, we request that EPA "convene a proceeding for reconsideration of the rule and provide the same

procedural rights as would have been afforded had the information been available at the time the rule was proposed." *Id.*

BACKGROUND

On March 19, 2004, North Carolina filed a petition ("the NC 126 Petition") under Section 126 of the Act, 42 U.S.C. § 7426.[1] The NC 126 Petition requested that EPA find that power plants in 12 upwind states (Alabama, Georgia, Illinois, Indiana, Kentucky, Michigan, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia, and West Virginia) significantly contribute to nonattainment and interfere with maintenance of the national ambient air quality standards ("NAAQS" or "standards") for fine particulate matter ("$PM_{2.5}$") in North Carolina. The petition also requested that the Administrator make a finding that sources in five upwind states (Georgia, Maryland, South Carolina, Tennessee, and Virginia) significantly contribute to nonattainment and interfere with maintenance of the 8-hour ozone NAAQS in North Carolina.

EPA issued a proposed rule responding to the NC 126 Petition on August 24, 2005 (the "126 Rule").[2] EPA proposed to deny North Carolina's petition with respect to upwind states shown to be linked to $PM_{2.5}$ nonattainment and maintenance in North Carolina based on calculations conducted for the federal Clean Air Interstate Rule ("CAIR").[3] Instead, EPA proposed to require those upwind states to amend their State Implementation Plans ("SIPs"), or to itself issue Federal Implementation Plan ("FIPs"), implementing CAIR.[4] EPA also proposed to deny North Carolina's petition with respect

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[1] State of North Carolina, *Petition Pursuant to Section 126 of the Clean Air Act, 42 U.S.C. §7426* (March 18, 2005).
[2] EPA, *Rulemaking on Section 126 Petition From North Carolina To Reduce Interstate Transport of Fine Particulate Matter and Ozone* (Proposed Rule), 70 Fed. Reg. 49708 (August 24, 2005).
[3] *Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Clean Air Interstate Rule)*, 70 Fed. Reg. 25162 (May 12, 2005).
[4] 70 Fed. Reg. 49708, 49717-19.

to upwind sources of ozone. EPA based this portion of its findings on revised modeling conducted for CAIR that projected that all areas in North Carolina would attain the 8-hour ozone NAAQS by 2010.[5]

On behalf of ourselves and a number of other interested groups, we submitted extensive written comments on the proposed rule. *See* Attachment 1. In our comments, we argued that EPA's proposed 126 Rule was unlawful, arbitrary, and capricious for several reasons. Principally, we argued that EPA's view of the relationship between Sections 110 and 126 of the Act was contrary to law. By conflating those provisions, EPA asserted that the determination whether or not to grant a Section 126 petition turns on whether *air quality plans* — rather than the offending upwind emissions themselves— are in violation of Section 110. For states linked to nonattainment of $PM_{2.5}$ in North Carolina, EPA therefore proposed a SIP or FIP remedy under Section 110 as a response to the NC 126 Petition. As we pointed out in our comments, however, EPA may not rely on state – or federal – plans under Section 110 as a substitute for compliance with Section 126. Further, we argued that EPA's proposed response to the NC 126 petition ignored the statutory requirement in Section 110(a)(2)(D)(i) (incorporated within Section 126) to prohibit not only interstate transport of emissions that contribute to future nonattainment, but also emissions that contribute to current nonattainment or interfere with maintenance of the 8-hour ozone NAAQS in North Carolina. Finally, we argued that EPA's proposed 126 Rule violated the Act by failing to require the specific offending sources to reduce their emissions or cease operating within 3 months, as required under Section 126 of the Act.

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[5] *See* 70 Fed. Reg. at 49717.

Nevertheless, EPA's final 126 Rule adopted the flawed approach of its proposed rule.[6] In the final rule, EPA denied the NC 126 Petition and instead promulgated FIPs for the contributing states. The FIPs simply implement the CAIR and will be withdrawn as to any covered state that submits a CAIR SIP.[7] It thus fails to meet the substantive requirements of Section 126 of the Act.

NEW INFORMATION

Well after the comment period closed, we learned of critical new information generated by the North Carolina Department of Natural Resources, Division of Air Quality ("NCDAQ"), regarding existing and projected ambient levels of ozone and $PM_{2.5}$ in North Carolina. This new information is of central relevance to the outcome of EPA's rulemaking on the NC 126 Petition. Recent updated modeling by NCDAQ indicates that Mecklenburg County, North Carolina will not attain the 8-hour ozone NAAQS by 2009, which coincides with the first phase of reductions under CAIR. This conflicts with EPA's assumption that Mecklenburg County would attain the NAAQS by that time. In addition, ambient air quality monitoring data for the years 2003-2005 shows that in contrast to EPA's assumptions, Mecklenburg County currently violates the $PM_{2.5}$ NAAQS.

This new information reveals deep flaws in EPA's analysis of whether emissions from upwind states significantly contribute to nonattainment or interfere with maintenance of the 8-hour ozone and/or $PM_{2.5}$ standards in North Carolina. Because this

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[6] *See* EPA, *Rulemaking on Section 126 Petition From North Carolina To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Federal Implementation Plans To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Revisions to the Clean Air Interstate Rule; Revisions to the Acid Rain Program*, 71 Fed. Reg. 25328 (April 28, 2006).
[7] *Id.* at 25339.

new information exposes the arbitrariness of EPA's approach in promulgating the Section 126 Rule, and if properly considered by EPA would change the result of the rulemaking, our objections are "of central relevance to the outcome of the rule," as required to trigger reconsideration under Section 307(d)(7)(B) of the Act, 42 U.S.C. § 7607(d)(7)(B).

ISSUES FOR RECONSIDERATION

1. EPA must reconsider its finding that no sources in upwind states significantly contribute to nonattainment of the 8-hour ozone NAAQS in North Carolina, because new air quality modeling shows that not only is Mecklenburg County currently failing to attain the NAAQS, it will *still* violate the NAAQS in 2009.

In the final Section 126 Rule, EPA denied North Carolina's 126 Petition with respect to upwind sources of ozone because, under the revised CAIR modeling, no upwind sources were found to contribute to ozone nonattainment in North Carolina. EPA's original modeling analysis for its initial CAIR proposal had projected that Mecklenburg County would be in nonattainment of the 8-hour ozone NAAQS in 2010, and that emissions in Georgia, Maryland, South Carolina, Tennessee, and Virginia were contributing significantly to that nonattainment.[8] Only after EPA revised its modeling and analysis for the final CAIR did it project all of North Carolina to be in attainment in 2010. Even then, Mecklenburg County was projected to barely attain the ozone NAAQS, with a design value of 82.5 parts per billion ("ppb") (rounded to 83 per EPA rounding convention), very close to the 85 ppb limit.[9] Moreover, in the final rule EPA shifted its focus to 2009, since in the final CAIR EPA moved the first phase NOx cap up by one year, to 2009. Yet, because the revised CAIR modeling projected all of North Carolina to

[8] *See, e.g.*, 69 Fed. Reg. at 4603, Table V-3; EPA, *Technical Support Document for the Interstate Air Quality Rule Air Quality Modeling Analysis*, at Appendix G (January 2004).
[9] *See* EPA, *Technical Support Document for the Final Clean Air Interstate Rule, Air Quality Modeling*, March 2005, at Appendix E, Table E-1.

attain the NAAQS by 2010, no upwind sources were found to contribute to ozone nonattainment in North Carolina for purposes of the Section 126 Rule.[10]

The new NCDAQ information shows that the predictions EPA relied upon in its Section 126 Rule were unrealistically optimistic about ozone attainment in North Carolina. As part of its ozone attainment planning, the NCDAQ conducts ozone air quality modeling for sites throughout the state, in coordination with the Visibility Improvement State and Tribal Association of the Southeast ("VISTAS"), and the Association for Southeastern Integrated Planning ("ASIP"). As described in the attached Affidavit of Sheila Holman, *see* Attachment 2, the most recent VISTAS/ASIP model run projects that in 2009 the ozone design value in Mecklenburg County will be 85 parts per billion ("ppb"), violating the 8-hour ozone NAAQS of 85 ppb. Nearby Rowan County is projected to be on the cusp of violating the NAAQS, with two monitors at 84 ppb.

This new modeling information demonstrates that EPA's refusal to find that upwind sources contribute significantly to ozone nonattainment in North Carolina is based on inaccurate and outdated evidence. Properly considered, the updated NCDAQ modeling information compels the conclusion that North Carolina will fail to attain the ozone NAAQS even with the first phase CAIR NOx reductions, and that as a result, the upwind states identified in the NC 126 Petition contribute significantly to North Carolina's nonattainment. Therefore, this new information, and our objection based on it,

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[10] *See* 70 Fed. Reg. at 49717. As we pointed out in our comments on the proposed rule, EPA's finding of no significant contribution was only possible because the agency arbitrarily chose a future date to determine attainment/nonattainment, when it should have looked to *current* nonattainment as well as future nonattainment/maintenance. Section 126 applies to sources that "emit or would emit," speaking clearly to both present and future emissions. Section 126 thus requires that EPA eliminate *presently existing* significant contribution to nonattainment, even assuming *arguendo* that Section 110(a)(2)(D) does not.

are centrally relevant to the rulemaking action and EPA must grant reconsideration as to this issue.

2. EPA must reconsider its finding that Mecklenburg County is currently attaining the $PM_{2.5}$ NAAQS because current monitoring data show that levels of $PM_{2.5}$ in Mecklenburg County exceed the NAAQS.

The CAIR modeling on which EPA's final Section 126 Rule was based found significant contribution from sources in upwind states to $PM_{2.5}$ nonattainment based on NAAQS violations in only two North Carolina counties – Davidson County in the Triad area, and Catawba County, near Hickory. However, updated air quality monitoring data shows that ambient levels of $PM_{2.5}$ in Mecklenburg County – in the large and rapidly growing Charlotte, North Carolina metropolitan area, also currently exceed the NAAQS.

As stated in the attached Affidavit of Hoke Kimball, Chief of NCDAQ's Ambient Monitoring Section, updated NCDAQ monitoring data reveals that Mecklenburg County exceeds the NAAQS for the 2003-2005 time period. *See* Attachment 3. Mr. Kimball explains that NCDAQ collects air quality samples for $PM_{2.5}$ at monitors throughout the state, assures the quality of the data, and calculates the design values for comparison to the NAAQS. Mr. Kimball's affidavit demonstrates that $PM_{2.5}$ design values for the 3-year period 2003-2005 exceeded the NAAQS in Mecklenburg County, at 15.3 micrograms per cubic meter ($\mu g/m^3$), and that for the two preceding three-year periods (2001-2003 and 2002-2004) Mecklenburg County was teetering on the edge of the 15.0 $\mu g/m^3$ level – at 14.9 $\mu g/m^3$ for each 3-year period. In Catawba and Davidson Counties (registering 15.3 $\mu g/m^3$ and 15.2 $\mu g/m^3$, respectively, for the 2003-2005 period), $PM_{2.5}$ levels exceed the NAAQS now and also exceeded the 15.0 $\mu g/m^3$ level for the two preceding three-year periods (2001-2003 and 2002-2004). Moreover, in Catawba County

the design value rose from the 2002-2004 to the 2003-2005 period, indicating that this area is experiencing rising $PM_{2.5}$ pollution levels over time. While NCDAQ has not yet certified this data, the raw $PM_{2.5}$ concentrations and the design values derived from them are not expected to change after certification by NCDAQ.

In light of his new monitoring data, EPA must reconsider the Section 126 Rule with respect to its assumption that Mecklenburg County is in attainment with the $PM_{2.5}$ NAAQS. In addition, EPA must re-evaluate whether upwind sources significantly contribute to $PM_{2.5}$ nonattainment in Mecklenburg County.

3. EPA must reconsider its determination not to separately identify upwind states that interfere with Mecklenburg County's maintenance of the 8-hour ozone and $PM_{2.5}$ NAAQSs.

In the final Section 126 rule, EPA declined to separately evaluate whether emissions from upwind sources interfere with maintenance of either the $PM_{2.5}$ or ozone standards.[11] This finding was premised on the CAIR rulemaking, which focused almost exclusively on the "contributes significantly to nonattainment" prong of the prohibition found in Section 110(A)(2)(D)(i)(I) of the Act. In fact, EPA's original CAIR proposal was based entirely on contribution to nonattainment.[12] EPA did address maintenance issues in a limited manner in the final CAIR,[13] but EPA did *not* evaluate whether certain areas currently in attainment or projected to be in attainment by the first phase CAIR deadlines needed upwind reductions to prevent interference with maintenance thereafter. As we discussed in our comments, EPA's Section 126 Rule thus illegally ignores the "interfere with maintenance" prong of Section 110(a)(2)(D)(i)(I) of the Act.

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[11] 71 Fed. Reg. at 25337.
[12] *See, e.g.*, 69 Fed. Reg. 4566, at 4570.
[13] *See, e.g*, 70 Fed. Reg. at 25192-95; 70 Fed. Reg. at 49716.

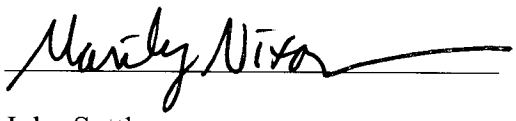
The new ozone modeling information and $PM_{2.5}$ monitoring data detailed above underscore the arbitrariness of EPA's decision to ignore whether upwind sources interfere with maintenance of the NAAQS for these pollutants in North Carolina. This new evidence, combined with evidence already part of EPA's rulemaking record, strongly suggests that three metropolitan areas in the state – the Charlotte area, the Triad, and the Hickory area – either fail to attain the $PM_{2.5}$ NAAQS now or are wavering on the brink of nonattainment and will continue to do so in future. In addition, the new evidence about Mecklenburg County's likely future ozone levels, as well as those of nearby Rowan County, indicates that those areas will continue to violate the NAAQS or come very close to it. Indications are that, without timely control of specific upwind pollution sources, North Carolina will continue to experience air quality problems for years. EPA must separately identify and control upwind sources that interfere with North Carolina's maintenance of the NAAQS, as required by the Clean Air Act, so that North Carolina can attain healthy air quality and maintain it over time.

Based on the new NCDAQ information, EPA must reconsider the Section 126 Rule and separately analyze whether emissions from upwind states will interfere with maintenance of the 8-hour ozone and/or $PM_{2.5}$ standards in North Carolina.

CONCLUSION

For the foregoing reasons, we urge the Administrator to grant reconsideration of the Section 126 Rule and fully consider the new air quality monitoring and modeling information recently generated by NCDAQ.

Respectfully submitted this 27th day of June, 2006,



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Attorneys for Petitioners

Attachment 1

Clean Air Task Force
Southern Environmental Law Center
Appalachian Voices

Canary Coalition
Carolinas Clean Air Coalition
Clean Air Watch
Climate Connection, NC Council of Churches
Environmental Defense
Georgia Public Interest Research Group
Maryland Public Interest Research Group
National Environmental Trust
North Carolina Conservation Network
North Carolina Public Interest Research Group
NC Sierra Club
Ohio Environmental Council
Ohio Public Interest Research Group
PennEnvironment

Southern Alliance for Clean Energy
Tennessee Environmental Council
United States Public Interest Research Group

October 24, 2005

VIA E-DOCKET, http://www.epa.gov/edocket and Email: A-and-R-Docket@epa.gov
with Hard Copy to Follow via U.S. Mail

Air Docket
Attention: Docket ID No. OAR-2004-0076
U.S. Environmental Protection Agency
Mail Code: 6102T
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

Re: *Rulemaking on Section 126 Petition From North Carolina To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Federal Implementation Plans To Reduce Interstate Transport of Fine Particulate Matter and Ozone; Revisions to the Clean Air Interstate Rule; Revisions to the Acid Rain Program; Proposed Rule*, 70 Fed. Reg. 49708 (August 24, 2005).

Dear Administrator Johnson:

The Southern Environmental Law Center and Clean Air Task Force submit the following comments on EPA's proposed response to North Carolina's Section 126 Petition (published in the Federal Register on August 24, 2005 at 70 Fed. Reg. 49708) on behalf of themselves and 18 local, regional, and national organizations active in the effort to protect public health and the

environment from the harmful effects of air pollution in North Carolina, the Southeast, and nationwide.

On March 19, 2004, North Carolina filed a petition under Section 126 of the Clean Air Act ("CAA"), requesting that EPA control power plant emissions in certain upwind states that substantially contribute to nonattainment in, and interfere with maintenance by, North Carolina with respect to the 8-hour ozone and $PM_{2.5}$ national ambient air quality standards ("NAAQS").[1] EPA's proposed response to North Carolina's Section 126 Petition fails to fulfill the agency's mission of protecting human health and the environment and violates its obligations under the CAA.[2]

In the CAA, Congress clearly laid out the process and standards governing petitions filed under Section 126: EPA must require upwind sources contributing to downwind nonattainment, or interfering with downwind maintenance, to reduce their emissions within three years or cease operations. Rather than complying with this straightforward statutory mandate, EPA instead proposes, in the alternative: (a) an unlawful and complete denial of North Carolina's 126 Petition based on proposed rulemakings related to EPA's Clean Air Interstate Rule [3] under Section 110 of the CAA; or (b) an illegal, substitute remedy that would allow upwind power plants to continue sending their pollution to North Carolina for years after Section 126's three-year deadline, and would exempt from ozone-specific controls certain highly polluting plants located upwind of North Carolina. EPA's proposal, which would eviscerate the only independent remedy for interstate pollution transport provided by Congress to the states in Section 126 of the CAA, is unlawful, arbitrary and capricious.[4]

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[1] State of North Carolina, *Petition Pursuant to Section 126 of the Clean Air Act, 42 U.S.C. §7426* (March 18, 2004).
[2] EPA, *Rulemaking on Section 126 Petition From North Carolina To Reduce Interstate Transport of Fine Particulate Matter and Ozone* (Proposed Rule), 70 Fed. Reg. 49708 (August 24, 2005).
[3] EPA, *Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Clean Air Interstate Rule); Revisions to Acid Rain Program; Revisions to NOx SIP Call; Final Rule*, 70 Fed. Reg. 25162 (May 12, 2005) (hereinafter "CAIR").
[4] EPA's Section 126 proposal appears to be part of an effort to reinterpret the existing provisions of the CAA in a manner that is calculated to produce regulations that mimic the Bush administration's "Clear Skies" legislative proposals (e.g., the proposed "Clear Skies Act of 2003," S.1844). Implementing the current Clean Air Act constrained by a yet-to-be-enacted legislative proposal—rather than the requirements of the CAA itself and sound analysis—is clearly arbitrary action.

I. Background

A. Ozone and Fine Particle Pollution Threaten the Health of North Carolina Citizens

Power plants are a major source of nitrogen oxide ("NO_x") and sulfur dioxide ("SO_2") emissions, which react in the atmosphere to form other unhealthful secondary pollutants such as ground-level ozone and fine particulate matter ("$PM_{2.5}$"). As EPA has recognized, fine particle and ozone pollution pose a severe threat to human health.

EPA itself has recognized that exposure to $PM_{2.5}$ is associated with a myriad of serious health effects. These include premature mortality, aggravation of respiratory and cardiovascular disease, lung disease, decreased lung function, asthma attacks, and cardiovascular problems such as heart attacks and cardiac arrhythmia.[5] Three major cohort studies, including new studies sponsored by the EPA-industry funded Health Effects Institute, have consistently associated fine particulate matter with premature death throughout the United States.[6] Nationwide, EPA estimates that attainment of the $PM_{2.5}$ National Ambient Air Quality Standards ("NAAQS") "would prolong tens of thousands of lives and prevent tens of thousands of hospital admissions each year, as well as hundreds of thousands of doctor visits, absences from work and school, and respiratory illnesses in children."[7]

In addition to the health effects associated with $PM_{2.5}$, EPA has documented a number of serious health effects associated with ozone. EPA findings indicate that long-term exposure to ozone can damage the lining of the lungs, leading to permanent changes in lung tissue and

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[5] *Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Interstate Air Quality Rule)* (Proposed Rule), 69 Fed. Reg. 4566, 4571 (January 30, 2004) (now known as "CAIR").

[6] *See, e.g.*,

Pope, C.A., Thun, M.J., Namboordiri, M.M. and Dockery, D.W., et al.; *Particulate Air Pollution as a Predictor of Mortality in a Prospective Study of U.S. Adults.* 151 American Journal of Respiratory and Critical Care Medicine (1995). Available online at http://ajrccm.atsjournals.org/search.shtml.

Krewski, D., Burnett, R.T., Goldberg, M.S., Hoover, K., Siemiatycki, J., Jerrett, M., Abrahamowicz, A. and White, W.H., *Reanalysis of the Harvard Six Cities Study and the American Cancer Society Study of Particulate Matter and Mortality;* Special Report to the Health Effects Institute, Cambridge, MA (July 2000).

Samet, J.M., Dominici, F., Zeger, S.L., Schwartz, J. and Dockery, D.W.; *National Morbidity, Mortality and Air Pollution Study, Part II: Morbidity, Mortality and Air Pollution in the United States;* Health Effects Institute Research Report No. 94, Cambridge MA (June 2000).

Dockery, D.W., Pope, C.A., Xu, S. and Spengler, J.D., et al; *An Association Between Air Pollution and Mortality in Six U.S. Cities;* 329 New England J. Medicine 1753-59 (1993). Available online at http://nejm.org/content/1993/0329/0024/1753.asp.

[7] 69 Fed. Reg. at 4571.

irreversible reductions in lung function. Even short-term exposure can irritate the respiratory system, reduce lung function, and aggravate asthma.[8] EPA has also linked ozone exposure to increased hospital admissions due to respiratory ailments such as asthma, bronchitis, chronic obstructive pulmonary disease, and other serious adverse health effects.[9] Comprehensive new epidemiological studies have shown significant associations between increased ozone and premature death;[10] even short-term spikes in urban ambient ozone concentrations have been associated with increased death rates during the following week.[11] Further, recent studies suggest that ozone exposure is associated with stunted lung development in children,[12] and not only aggravates childhood asthma but can actually *cause* active children in highly polluted areas to develop the disease.[13]

Thirty-two North Carolina counties are classified as nonattainment, in whole or in part, for the 8-hour ozone and/or fine particle pollution NAAQS. This means that almost four million North Carolinians – about half the State's population – live in areas with unhealthy air. As a result, for many North Carolina citizens, the simple act of breathing can be a high-risk activity that carries with it a host of serious health effects. More than 550,000 North Carolinians suffer from asthma, and in 2000, more than seven percent of the adult population in North Carolina reported having current asthma symptoms.[14]

Children in North Carolina suffer disproportionately from asthma, with an estimated 10 to 17 percent of children ages birth to 18 suffering from diagnosed asthma, and another 17 percent of children suffering from undiagnosed asthma-like symptoms.[15] A study conducted by the North Carolina Department of Health and Human Services also found that 50 percent of

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[8] *Id.*
[9] *Id.*
[10] A. Gryparis et al., "Acute Effects on Mortality from the 'Air Pollution and Human Health: A European Approach' Project," *Am. J. Respir. Crit. Care Med.*, 170:1080-87, 2004.
[11] M.L. Bell et al., "Ozone and Short-term Mortality in 95 U.S. Urban Communities," 1987-2000, *Journal of the American Medical Association*, 292:2372-2378, 2004.
[12] Plopper, C.G., Fanucci, M.V., Evans, M.J., Larson, S.P., Schelegle, E.S., Joad, J.P., Pinkerton, K.E., VanWinkle, L.S., Gershwin, L.J., Miller, L.A., Wu, R., Buckpitt, A.R., and Hyde, D.M. 2001. *Air pollution effects in a primate model of asthma.* Abstract and presentation, HEI Annual Conference, Washington DC; Program and Abstracts; Health Effects Institute, Cambridge MA, 02139
[13] McConnell, R., Berhane, K., Gilliland, F., London, S.J., Islam, T., Gauderman, W.J., Avol, E., Margolis, H.G., Peters, J.M., "Asthma in exercising children exposed to ozone: a cohort study," *The Lancet* 359 (2002): 386-391.
[14] North Carolina Department of Health and Human Services website: http://wch.dhhs.state.nc.us/Asthma/AANC.htm
[15] *Id.*

children with asthma reported missing school due to breathing difficulties at least once each month during the previous year.[16]

Power plant emissions also contribute to numerous adverse environmental effects, including acid deposition, watershed eutrophication and nitrification, and visibility impairment and regional haze.[17] In addition, ozone has adverse effects on vegetation, reducing yields of timber and agricultural crops. [18]

B. The North Carolina Clean Smokestacks Act Is Not a Complete Solution to the State's Ozone and Fine Particle Pollution

Recognizing the severe health effects of power plant pollution, in June 2002, North Carolina enacted the landmark Clean Smokestacks Act ("CSA"), which requires significant emissions reductions from the 14 largest coal-fired power plants in the state.[19] Under the CSA, these power plants must reduce their NO_x emissions 77 percent by 2009, and must reduce their SO_2 emissions 49 percent by 2009 and 73 percent by 2013. This represents a reduction of about one-third of the state's total NO_x emissions and of one-half of the state's total SO_2 emissions. North Carolina's two largest power companies, Duke Power and Progress Energy, must achieve these emissions cuts by the specified deadlines through actual reductions. They cannot delay making pollution reductions by buying emissions credits from utilities in other states. The power companies also cannot sell credits for their emissions cuts to utilities in neighboring states, which could negate the gains achieved in North Carolina.[20]

Unfortunately, the CSA is not a complete solution to the problem of ozone and fine particle pollution in North Carolina because a significant part of North Carolina's air pollution originates at sources in upwind states and is transported into North Carolina. To address the

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[16] *Asthma in North Carolina: The North Carolina School Asthma Survey, 1999-2000.* Available at http://wch.dhhs.state.nc.us/Asthma/surveillance.htm.
[17] 69 Fed. Reg. at 4571-72, 4642-43, and 4645-47.
See also CATF/Clear the Air, *Unfinished Business: Why the Acid Rain Problem is not Solved,* Oct. 2001, available online at http://www.catf.us/publications/reports/acid_rain_report.php; and
CATF/Clear the Air, *Out of Sight: Power Plant Emissions and Haze in Our National Parks*, Sept. 2000, available online at http://www.catf.us/publications/reports/out_of_sight.php.
[18] 69 Fed. Reg. at 4571.
[19] 2002 N.C. Sess. L. 4, codified at N.C. Gen. Stat. § 143-215.107D.
[20] North Carolina Division of Air Quality website: http://daq.state.nc.us/news/leg/stackfacts.shtml.

problem of interstate transport, North Carolina officials have tried to convince upwind states to voluntarily reduce their emissions. In the CSA, the North Carolina legislature expressed its intent that the state work to achieve similar reductions on a similar schedule in upwind states.[21] In response to this mandate, state officials contacted their counterparts in other states and at the Tennessee Valley Authority in an attempt to secure emissions reductions similar to those required by the CSA at upwind out-of-state sources. These efforts proved unavailing.

The failure of upwind states to reduce their power plant emissions left North Carolina no choice: the only tool left for North Carolina to combat pollution from upwind states was Section 126 of the federal Clean Air Act.[22] As EPA has recognized, this is precisely the situation Congress envisioned when it enacted Section 126: "Congress provided section 126 to downwind states as a critical remedy to address pollution problems . . . otherwise beyond their control, and EPA has no authority to refuse to act under this section."[23] EPA must not let North Carolinians down.

C. North Carolina's Section 126 Petition

North Carolina's Section 126 Petition requested that the EPA Administrator make a finding that power plants in 12 upwind states (Alabama, Georgia, Illinois, Indiana, Kentucky, Michigan, Ohio, Pennsylvania, South Carolina, Tennessee, Virginia, and West Virginia) do, and will continue to, contribute significantly to non-attainment and interfere with maintenance of the NAAQS for $PM_{2.5}$ in North Carolina. The petition also requested that the Administrator make a finding that sources in five upwind states (Georgia, Maryland, South Carolina, Tennessee, and Virginia) do, and will continue to, contribute significantly to non-attainment and interfere with maintenance of the 8-hour ozone NAAQS in North Carolina.[24] If EPA makes the requested findings, Section 126 requires those sources to cut emissions to levels that will not significantly

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[21] 2002 N.C. Sess. L. 4, § 10.

[22] State of North Carolina, *Petition Pursuant to Section 126 of the Clean Air Act, 42 U.S.C. §7426* (March 18, 2004) at 23-24.

[23] *Findings of Significant Contribution and Rulemaking on Section 126 Petitions for Purposes of Reducing Interstate Ozone Transport*, 65 Fed. Reg. 2674, 2681 (January 18, 2000).

[24] *Petition Pursuant to Section 126 of the Clean Air Act.*

contribute to downwind nonattainment or interfere with downwind maintenance within a maximum period of three years, or cease operations.[25]

The technical determinations that would support the requested findings have already been made. EPA has already found through modeling conducted for purposes of Clean Air Interstate Rule ("CAIR"),[26] that power plants outside of North Carolina do, and will continue to, significantly contribute to nonattainment and interfere with maintenance of the ozone and fine particulate matter NAAQS in North Carolina.[27] Under Section 126, this pre-existing finding alone compels the conclusion that North Carolina's petition must be granted. Moreover, evidence provided by North Carolina in support of its Section 126 Petition shows that emissions of SO_2 and/or NO_x from large EGUs in 13 other states contribute significantly to nonattainment in, and interfere with maintenance by, North Carolina with respect to the NAAQS for fine particulate matter and/or 8-hour ozone.

II. EPA Must Grant North Carolina's Section 126 Petition

A. Statutory Framework

Section 126 of the CAA "provides a mechanism whereby downwind states may petition the EPA to directly regulate upwind sources of pollution."[28] Under Section 126(b), "[a]ny State . . . may petition the [EPA] Administrator for a finding that any major source or group of stationary sources emits or would emit any air pollutant in violation of the prohibition of section 110(a)(2)(D)([i])[29] or this section."[30] The referenced "prohibition" is contained in Section 110, which provides that state plans ("SIPs") implementing the NAAQS must include adequate provisions "prohibiting . . . any source or other type of emissions activity within the State from

[25] 42 U.S.C. § 7426(c).
[26] *Rule to Reduce Interstate Transport of Fine Particulate Matter and Ozone (Clean Air Interstate Rule)*, 70 Fed. Reg. 25162 (May 12, 2005).
[27] 69 Fed. Reg. at 4637-38; *see also Technical Support Document for the Interstate Air Quality Rule: Air Quality Modeling Analysis* at 27-36, H-1-H-7, and Appendix G
[28] *Appalachian Power Co. v. EPA*, 249 F.3d 1032, 1037 (D.C. Cir. 2001).
[29] Section 126 actually refers to section 110(a)(2)(D)(ii), but the D.C. Circuit in the *Appalachian Power* case agreed with EPA that this was a scrivenor's error and the intended reference was to section 110 (a)(2)(D)(i). *Appalachian Power*, 249 F.3d at 1040-44.
[30] 42 U.S.C. § 7426(b).

emitting any air pollutant in amounts which will . . . contribute significantly to nonattainment in, or interfere with maintenance by, any other State with respect to any such [NAAQS]."[31]

Once EPA makes a finding under Section 126(b) that a source or group of sources is emitting a pollutant in an amount which will contribute significantly to nonattainment or interfere with maintenance of a NAAQS in a downwind state, "it shall be a violation of this section...for any major existing source to operate more than three months after such finding has been made with respect to it."[32] EPA may thereafter allow the source to continue operating only if the source complies with emission limitations and compliance schedules provided by EPA "to bring about compliance with the requirements contained in section 110(a)(2)(D)([i]) as expeditiously as practicable, but in no case later than three years after the date of such finding."[33]

The D.C. Circuit has explained that "[t]he 'prohibition' to which § 126 refers is . . . the 'functional prohibition' upon emissions of pollutants that subsequently cross state lines" contained in Section 110 of the CAA.[34] Thus, "the substantive inquiry for decision is the same in both [§ 110 and § 126] proceedings":[35] whether emissions from sources in an upwind state contribute significantly to nonattainment in, or interfere with maintenance by, a downwind state. The *difference* between Sections 110 and 126 is the procedure and timeframe for remedying the problem of upwind contribution: Section 110 provides for state action to reduce interstate transport through state implementation plans developed and applied over time, while Section 126 provides for direct EPA action to regulate sources immediately – and in no case later than a maximum of three years.

B. Sections 110 and 126 of the Clean Air Act Provide Separate and Independent Mechanisms for Reducing Interstate Transport of Air Pollution

Court decisions have clearly acknowledged that Sections 110 and 126 are separate and independent mechanisms for addressing interstate air pollution. The D.C. Circuit held in *Appalachian Power Co. v. EPA* that issuance of an interstate transport rule pursuant to Section

[31] *Id.* at § 7410(a)(2)(D)(i)(I).
[32] *Id.* at § 7426(c).
[33] *Id.*
[34] *Appalachian Power*, 249 F.3d at 1045.
[35] *Connecticut v. United States EPA*, 656 F.2d 902, 907 (2d Cir. 1981)

110 is distinct from, and not a substitute for, the obligation to make a finding on a Section 126 petition.[36] Quoting EPA itself, the court emphasized that Sections 126 and 110 are "'independent statutory tools to address the problems of interstate pollution transport' that EPA may deploy either singly or in tandem . . . ."[37]

In *Appalachian Power*, the industry petitioners challenged EPA's decision to make findings on several pending Section 126 petitions while the NO_x SIP Call was ongoing. In rejecting industry's arguments, the court reasoned, in part, that if the lengthened timetable of the NO_x SIP Call were to suspend the Section 126 process, "three critical provisions of §126 would lose their force":

> "First, §126 emphatically requires that any source found to contribute to downwind nonattainment may in no event be permitted to operate for more than 3 years after such finding. Second, under §126, "[r]elief does not depend upon any action by the upwind states, as is necessary for a SIP revision." Third, relief under a §126 finding is independent also of the discretionary policy preferences of the EPA; the agency must act upon a request for a §126 finding within 60 days. Under the EPA's approach [that is, "delinking" the two rules], of course, §126 retains each of these features."[38]

The industry petitioners also argued that under the principle of "cooperative federalism," a SIP call was the preferred remedy, while direct federal regulation of sources, as authorized by Section 126, must be a last resort reserved for cases in which states cannot or do not meet their SIP obligation. The court explicitly rejected industry's argument that if the two sections were independent, then EPA could impose a remedy under only one of them, upholding EPA's decision "[b]ecause it is reasonable, and because the 'Congress provided both [Sections 110 and 126] without indicating any preference for one over the other[.]'. . . ."[39]

The courts have repeatedly recognized that Sections 110 and 126 provide separate and independent processes for reducing interstate transport of air pollution. For example, in *New York v. U.S. Environmental Protection Agency*, the D.C. Circuit agreed with EPA that a Section 126 petition does not trigger reevaluation and revision of existing SIPs under Section 110.[40] In *Connecticut v. United States EPA*, noting that "it seems clear that [sections 110 and 126] are

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[36] *Appalachian Power*, 249 F.3d 1032.
[37] *Id.* at 1046 (quoting 65 Fed. Reg. at 2680-81).
[38] *Id.* at 1047 (quoting 64 Fed. Reg. at 28264; other citations omitted).
[39] *Id.* at 1048 (quoting 65 Fed. Reg. at 2680-81).
[40] 852 F.2d 574, 578 (D.C. Cir. 1988)

intended to be utilized in differing procedural settings[,]" the Second Circuit held that completion of the Section 126(b) procedure is not a prerequisite to EPA approval of a SIP revision.[41] Finally, in examining EPA's authority to regulate interstate air pollution under the CAA, the court in *Alabama Power Co. v. Costle* also recognized that Sections 110 and 126 are separate "vehicle[s] for abating substantial interstate air pollution[.]"[42] Thus, the case law is clear that the remedies provided by Sections 110 and 126 are distinct, and therefore cannot lawfully be substituted for one another.

C. EPA May Not Substitute FIPs (or SIPs) Implementing CAIR for Its Duty to Directly Regulate Upwind Sources Within Three Years Under Section 126

Ignoring the clear language of the Clean Air Act and the courts' repeated statements distinguishing Sections 110 and 126, EPA's proposed response to North Carolina's Section 126 Petition is a Section 110 remedy: issuance of an implementation plan. EPA proposes, with respect to states shown to be linked to $PM_{2.5}$ nonattainment and maintenance problems in North Carolina under the CAIR, to deny North Carolina's Petition and promulgate a Federal Implementation Plan (FIP)[43] by March 15, 2006, requiring states to implement the emissions reductions set forth in the CAIR. This is EPA's "preferred option."[44] EPA will "withdraw" the FIP with respect to one or more states if they later submit their own SIP implementing the CAIR reductions.[45] In the alternative, EPA proposes to grant the petition and make the Section 126 findings if EPA does not promulgate a FIP by March 15, 2006 (the court-ordered deadline for EPA's final action on the petition). Nevertheless, EPA will "withdraw" its 126 findings once a CAIR FIP is in place, or a state submits an approvable CAIR SIP.[46] This convoluted series of proposals seems to have one primary purpose—to deny North Carolina any remedy to its Section 126 Petition that goes beyond or differs from EPA's CAIR requirements.

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[41] 656 F.2d 902, 907 (2d Cir. 1981).
[42] 636 F.2d 323, 367 (D.C. Cir. 1979).
[43] Section 110 provides that in the absence of an EPA-approved SIP, EPA shall promulgate a Federal Implementation Plan ("FIP") to meet the NAAQS. 42 U.S.C. § 7410(c).
[44] 70 Fed. Reg. 49708, 49717-19.
[45] *Id.* at 49718.
[46] *See, eg.*, 70 Fed. Reg. at 49718, 49720.

Furthermore, both of EPA's proposals are contrary to law in at least three key respects. First, as discussed more fully below, EPA's proposal illegally delays the remedy beyond the maximum of three years permitted by Section 126. The CAIR reductions which EPA attempts to substitute for a remedy under Section 126 would not even begin until 2009 (in the case of NO_x) or 2010 (in the case of SO_2), and would stretch for years beyond Section 126's three-year deadline.

The second flaw in EPA's proposed scheme is that the CAIR reductions would apply on a statewide basis, with the option of banking and trading on a region-wide basis – despite the fact that Section 126, on its face, requires that EPA directly regulate specific sources that are found to impair downwind air quality. In its proposal, EPA repeatedly emphasizes the "integral relationship" between Sections 110 and 126 in support of its argument that the two sections are functionally interchangeable.[47] As discussed above, EPA is correct that the *substantive* standard in 126 and 110(a)(2)(D)(i) is the same[48] – that is, both are triggered by upwind pollution that significantly contributes to downwind nonattainment or interferes with downwind maintenance – but the *remedy* is different. The remedy contemplated in Section 110 is inclusion in the SIP (or, if a state fails to comply, in the FIP) of "adequate provisions" prohibiting emissions from upwind sources that significantly contribute to downwind nonattainment or interfere with downwind maintenance.[49] In contrast, the remedy explicitly provided in Section 126 is direct EPA regulation of upwind sources.[50] Once EPA has made the required findings under Section 126, as it must here since the technical basis for those findings already exists, EPA must respond with timely, source-specific controls, not a Section 110 implementation plan.

Finally, and fundamentally, EPA's proposal illegally conditions its duty to make Section 126 findings on states' noncompliance with their obligation to revise their SIPs in accordance with Section 110. As discussed above, EPA bases its approach on its erroneous interpretation of Sections 110 and 126 of the CAA. However, EPA's duty under Section 126 is unconditional and is not impacted by what states do or don't do under Section 110. EPA asserts that "a section 126(b) violation no longer exists once EPA approves a timely SIP, or adopts a timely FIP,

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[47] *See, e.g., id.* at 49717.
[48] *See Connecticut v. EPA*, 656 F.2d at 907 (substantive inquiry is the same under both § 110 and § 126).
[49] 42 U.S.C. § 7410(a)(2)(D)(i)(I).
[50] *See Appalachian Power*, 249 F.3d at 1037 (section 126 "provides a mechanism whereby downwind states may petition the EPA to directly regulate upwind sources of pollution.").

requiring each state contributing significantly (in this case, to North Carolina) to reduce emissions to the levels reflecting elimination of the State's significant contribution . . . ."[51] This is clearly erroneous. In attempting to justify its proposed approach, EPA claims that "EPA's determination whether or not to grant a section 126 petition . . . turns on whether *SIPs* are in violation of section 110(a)(2)(D)" (emphasis added) and cites *Appalachian Power* for this proposition.[52] Here, EPA misreads both the Clean Air Act and *Appalachian Power*. As the D.C. Circuit has explained, "[t]he 'prohibition' to which § 126 refers is . . . the 'functional prohibition' upon emissions of pollutants that subsequently cross state lines" in § 110 of the Act.[53] In addition, EPA itself has previously acknowledged that "prohibition" means "the actual functional prohibition of section 110(a)(2)(D)(i), which bars impermissible state transport, rather than the specific provisions through which states implement that prohibition . . . in an approved SIP."[54]

The D.C. Circuit has made it clear that "under § 126 'relief does not depend upon any action by the upwind states, as is necessary for a SIP revision.'"[55] Thus, EPA may not rely on state actions under Section 110 as a substitute for compliance with Section 126. This is equally true with respect to an EPA-issued FIP. As the D.C. Circuit has emphasized, Sections 126 and 110 are "independent statutory tools to address the problems of interstate pollution transport."[56] Because the provisions are independent of one another, compliance or noncompliance with one section cannot be conditioned on compliance with the other. Instead, EPA must take action on North Carolina's Section 126 Petition consistent with the clear terms of Section 126, which requires direct EPA regulation of upwind sources.[57]

III. EPA Must Control Offending Upwind Sources Within Three Years

As discussed above, once EPA makes a finding under Section 126 that upwind sources are contributing significantly to nonattainment in, or interfering with maintenance by, another

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[51] 70 Fed. Reg. at 49717.
[52] *Id.* at 49716.
[53] *Appalachian Power*, 249 F.3d at 1045.
[54] 64 Fed. Reg. at 28272.
[55] *Appalachian Power*, 249 F.3d at 1047 (quoting 64 Fed. Reg. at 28264).
[56] *Id.* at 1046.
[57] We do not argue that state action in compliance with a SIP or a FIP to eliminate prohibited power plant emissions in its state may not serve to comply with a Section 126 finding. But it is the control of the emissions that are the subject of the Section 126 finding, not the mere promulgation of a SIP or a FIP, that constitutes compliance with the Section 126 finding.

state, no major existing source may operate more than three months after such a finding has been made with respect to it, unless the source complies with emission limitations and compliance schedules provided by EPA "to bring about compliance with the requirements contained in Section 110(a)(2)(D)(ii) as expeditiously as practicable, but in no case later than three years after the date of such finding."[58]

Section 126 thus requires EPA to directly regulate emissions from upwind plants within a maximum of three years from the date on which the agency makes a finding that the downwind state's air quality problems result in part from the upwind state's pollution. In the case of North Carolina's Petition, EPA's CAIR modeling provides the basis for this finding. As a result, EPA is required to grant the petition and impose emissions controls on violating upwind sources. Instead, EPA is proposing the CAIR NO_x and SO_2 cap-and-trade programs as the control remedy for both the Section 126 action and the FIP.[59] Yet the CAIR reductions would not even begin until 2009 (in the case of NO_x) or 2010 (in the case of SO_2). This proposed remedy violates the plain language of the CAA, which requires the contributing sources to cut their emissions or cease operation within three years.

Unfortunately, EPA's proposed response to North Carolina's Section 126 Petition is entirely consistent with the agency's pattern of illegal delay, in which EPA has repeatedly failed to take action on the petition within the required time period. North Carolina filed its petition on March 19, 2004. After taking no action at all on the petition within the initial 60-day period required by §126 of the Clean Air Act, EPA granted itself an extension of time under Section 307(d) of the CAA.[60] EPA then failed to develop a response to the petition during the extension period. It was only after Environmental Defense, represented by the Southern Environmental Law Center, and the State of North Carolina separately filed suit in January 2004 to compel EPA to act on the petition that EPA entered into settlement negotiations and agreed, finally, to a timetable for action on the petition.[61] Yet EPA's current proposal is for further delay.

In an attempt to justify substituting the extended timeframe of CAIR for the expeditious timeframe of Section 126, EPA relies on selective quotation of the CAA and a completely

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[58] 42 U.S.C. § 7426(c).
[59] 70 Fed. Reg. at 49717.
[60] 42 U.S.C. §7607(d).
[61] *State of North Carolina v. Johnson,* No. 5:05-CV-112 (E.D.N.C.) and *Environmental Defense v. Johnson*, No. 5:05-CV-113 (E.D.N.C.)

implausible interpretation of its provisions. EPA takes the untenable position that its proposed control remedy "would satisfy the 3-year compliance period in section 126(c)" because "the remedy would *commence* within the 3-year maximum timeframe set out in section 126(c) . . . ."[62] (Emphasis added.) In attempting to explain its position, EPA states that 126(c) "on its face contemplates that control measures satisfying both section 126 and section 110(a)(2)(D) may stretch out beyond a 3-year period."[63] EPA then quotes part of the provision in Section 126(c) stating that sources subject to a Section 126(b) finding may continue to operate beyond the initial three-month period if they comply with "emissions limitations and compliance schedules (*containing increments of progress*) provided by [EPA][.]"[64] (Emphasis EPA's.) Here, however, EPA simply omits the last phrase of the subsection, which continues, "to bring about compliance with the requirements contained in section 110(a)(2)(D)([i]) *as expeditiously as practicable, but in no case later than three years* after the date of such finding."[65] (Emphasis added.) By quoting selectively from the Clean Air Act, EPA attempts to read out of the Act the three-year deadline for compliance. The agency then asserts that "the reference to increments of progress can describe a situation where compliance is stretched out over periods exceeding 3 years provided initial action (*i.e.* an initial increment of progress) occurs within 3 years."[66] EPA's reference to "increment of progress" is nothing but a red herring. The plain language of Section 126(c) simply allows EPA to require—as a condition for a delay in emissions control beyond 3 months—"increments of progress" as part of compliance schedules and emissions limits. Section 126(c) then unequivocally provides that any such delay is not to exceed three years under any circumstances.

Thus, EPA's position directly conflicts with the language of the CAA, which clearly states that EPA must "bring about compliance" (*i.e.*, cut pollution to levels that will not significantly contribute to nonattainment in or interfere with maintenance by a downwind state) from the offending upwind plants *within a maximum of three years*. EPA must not just begin the process of controlling sources (which could take many years, and in the case of CAIR, will do just that), but must actually achieve emissions cuts at sources with respect to which it makes a

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[62] 70 Fed.Reg. at 49718.
[63] *Id.* at 49718.
[64] *Id.*
[65] *Id.*
[66] *Id.*

finding under Section 126 within three years of the date on which the agency makes the finding. Under the explicit timetable for action provided by Section 126, EPA should have acted on North Carolina's petition by November 2004 at the latest, and should have controlled emissions at upwind plants by November 2007 at the latest. EPA's proposed remedy, which stretches the timetable for compliance to 2015 and beyond, is arbitrary and capricious, and is plainly illegal under the CAA. Rather, EPA must require implementation of controls that will eliminate the prohibited emissions subject to the 126 findings within 3 years of the finding, or no later than March 2009.[67]

IV. EPA's Proposed Denial of North Carolina's Section 126 Petition With Respect to the 8-Hour Ozone NAAQS is Unlawful.

A. Upwind Emissions will Interfere with Maintenance by North Carolina and Must be Reduced under Sections 126 and 110(a)(2)(D)

North Carolina's Petition explicitly seeks findings from EPA pursuant to Sections 126 and 110(a)(2)(D) that upwind power plant emissions not only "contribute significantly to nonattainment" in North Carolina, but also "interfere with maintenance" by North Carolina, with respect to both the 8-hour ozone and $PM_{2.5}$ NAAQS. This, of course, tracks the requirements of Section 110(a)(2)(D) of the Clean Air Act, prohibiting emissions which will "contribute significantly to nonattainment in, *or interfere with maintenance by,* any other State with respect to any such national or secondary ambient air quality standard" (emphasis added).

EPA proposes to deny North Carolina's Petition with respect to the ozone NAAQS, however, because "EPA's updated [CAIR] analyses project all of North Carolina to be in attainment for 8-hour ozone in the CAIR 2010 base case."[68] In this regard, EPA's proposal effectively ignores the "interfere with maintenance" provision of North Carolina's Petition and of Section 110(a)(2)(D)(i)(I) of the Act. This glaring omission in EPA's proposal violates the plain language of the Act, is arbitrary, capricious and unlawful. EPA must grant North

[67] This assumes that EPA delays finalizing its 126 findings until March 2006, the latest date permitted by the court's order in *State of NC v. Johnson, supra*, at footnote 61, *supra*.
[68] *See* 70 Fed. Reg at 49717.

Carolina's ozone petition, even if North Carolina is projected to attain the ozone NAAQS by 2010, because upwind power plant emissions from certain states will interfere with maintenance by North Carolina.

First of all, North Carolina's Petition may be distinguished from CAIR by North Carolina's specific request for emission reductions that would interfere with maintenance. EPA's CAIR rulemaking was almost exclusively focused on the "contributes significantly to nonattainment" prong of the alternate prohibition found in Section 110(A)(2)(D)(i)(I) of the Act. In fact, EPA's original CAIR proposal was based entirely on contribution to nonattainment, and did not mention interference with maintenance at all.[69] EPA did address maintenance issues in a limited manner in the final CAIR, but only in the context of providing one of several rationales for requiring the second phase of emissions reductions in 2015 for those areas that were projected to be in attainment in 2015 but not in 2010.[70] EPA did *not* evaluate in CAIR whether certain areas projected to be in attainment by 2010 needed upwind reductions to prevent interference with maintenance of the 8-hour ozone standard thereafter.

North Carolina's Petition explicitly seeks relief from upwind emissions on the ground that those emissions will interfere with maintenance. Under Sections 126 and 110 of the Act, EPA must respond to that request, even though it did not address the issue in CAIR. EPA's discussion in CAIR of the maintenance prong of Section 110(a)(2)(D) in the context of the second phase CAIR cap, however, does provide substantial guidance on how EPA should address the issue raised here in North Carolina's Petition.

EPA stated in CAIR that:

> "[W]e believe the 'interfere with maintenance' prong may come into play only in circumstances where EPA or the State can reasonably determine or project, based on available data, that an area in a downwind state will achieve attainment, but due to emissions growth or other relevant factors is likely to fall back into nonattainment."[71]

EPA then went on to apply the "interfere with maintenance" prong as one of several

[69] *See, e.g.*, 69 Fed. Reg. 4566, at 4570.
[70] *See, e.g*, 70 Fed. Reg. at 25192-95; 70 Fed. Reg at 49716.
[71] 70 Fed. Reg. at 25193, footnote 45.

justifications for imposing second phase 2015 emission caps to benefit downwind receptor areas projected to be in attainment in 2015 but not 2010. With respect to ozone, EPA stated:

> "Even if all ozone nonattainment areas in the CAIR region could achieve reductions sufficient to meet the level of the 8-hour ozone standard in 2009 [footnote omitted] based on local controls, 2009 CAIR NO_x reductions and existing programs, we believe that numerous downwind receptor areas would remain close enough to the standard to be at risk of falling back into nonattainment...."[72]

EPA then acknowledged that one of the main reasons for this risk is the historic variability of ozone formation and transport based on changing weather conditions:

> "We recognize that the ozone levels in ozone receptor areas will improve somewhat between 2010 and 2015 due chiefly to downward trends in NO_x emissions projected under existing requirements. Nevertheless, ...the projected improvements in ozone levels in the receptor areas are less (often considerably less) than historic variability in monitored 8-hour ozone design values from one three year period to the next. We believe this variability is mostly attributable to changing weather conditions (which significantly affect the rate at which ozone is formed in the atmosphere and movement of ozone after it is formed), rather than variability in the emissions inventory. Thus, absent the second phase CAIR cap, these receptors remain vulnerable to falling back into nonattainment."[73]

EPA concluded by noting that ozone variability would not be automatically assumed, but must be demonstrated in order to apply the "interfere with maintenance" prong:

> "We recognize that in the absence of substantial evidence, variability alone would not be a sufficient basis for applying the "interfere with maintenance" prong of section 110(a)(2)(D). Here, however, where there is a substantial body of historical data documenting the variability in ozone concentrations, we believe it is appropriate to consider variability in determining whether emission reductions from upwind states are necessary to prevent interference with maintenance of ozone in downwind states."[74]

In the case of North Carolina's 126 Petition, application of the above-stated principles requires that EPA find that at least one nonattainment area in North Carolina, while projected by EPA to attain the ozone NAAQS by 2010, is thereafter "at risk of falling back into

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[72] 70 Fed. Reg. at 25195.
[73] *Id.*
[74] 70 Fed. Reg. 25195, footnote 50.

nonattainment," and thus that emission reductions from certain upwind states are necessary to prevent interference with maintenance of ozone in North Carolina.

First, EPA's projections of ozone concentrations for North Carolina show attainment of the ozone NAAQS by 2010 by only a slim margin. In fact, EPA's original modeling analysis for its initial CAIR proposal projected that Mecklenburg County, North Carolina would be in nonattainment of the ozone NAAQS in 2010, and that emissions in Georgia, Maryland, South Carolina, Tennessee and Virginia were significantly contributing to that nonattainment.[75] Only after EPA revised its modeling and analysis for the final CAIR did it project all of North Carolina to be in attainment. Even then, Mecklenburg was projected to barely attain the NAAQS, with a design value of 82.5 (rounded to 83 per EPA rounding convention), very close to the 85 ppb limit.[76]

Furthermore, in order to reach attainment by 2010, North Carolina will need a dramatic improvement in air quality. According to EPA data, Mecklenburg County's ozone design value for the years 2001-03 was 98, or *13 ppb* over the standard. Clearly, like many of the ozone nonattainment areas mentioned by the EPA in CAIR, Mecklenburg will need steep reductions merely to reach attainment.[77] This not only increases the risk that Mecklenburg will fall back into nonattainment, but also makes EPA's attainment projections less certain (as discussed below in section IV.B. of these comments).

Third, North Carolina clearly can show, based on historical data, substantial variability in ozone concentrations over the last two decades. EPA includes this data in the CAIR docket in its "Technical Support Document for the Final Clean Air Interstate Rule, Air Quality Modeling" (March 2005), at Table E-1 of Appendix E. The average design value for the latest two periods (the 3 years ending 2002 and 2003) was 100, which was the *same* as the earliest period (1982). During that 20 year period with *no net change* in the ozone design value, the yearly design value varied from a low of 91 (in 1992 and 1993) to a high of 112 (in 1988); there were year-to-year variations of at least 8 ppb on four occasions, 6 ppb on another, and at least 3 ppb on four

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[75] *See, e.g.*, 69 Fed. Reg. at 4603, Table V-3; EPA, *Technical Support Document for the Interstate Air Quality Rule Air Quality Modeling Analysis*, at Appendix G (January 2004).

[76] *See* EPA, *Technical Support Document for the Final Clean Air Interstate Rule, Air Quality Modeling*, March 2005, at Appendix E, Table E-1.

[77] EPA noted that areas needing over 6 ppb "would need substantial emission reductions merely to attain," would be unlikely to attain by a wide margin, and thus would be at greater risk of falling back into nonattainment. 70 Fed. Reg. at 25195.

additional occasions. It is difficult to imagine any clearer evidence of historical ozone variability than that reflected in the Mecklenburg County data.

In the CAIR modeling, EPA's evaluation of the risk that a downwind receptor area would fall back into ozone nonattainment focused on the comparison between the projected margin of attainment and the historical variability in ozone concentrations.[78] Specifically, EPA found that most receptor areas would attain by margins of 3 ppb or less. EPA also found, by reviewing historical monitoring data, that year-to-year variations in ozone concentrations in those areas were greater than the 3 ppb attainment margin. Thus, EPA concluded that "historical data indicates that attaining counties with air quality levels within 3 ppb of the standard are at risk of returning to nonattainment," and that "there is a reasonable likelihood that interstate transport of NO_x ...will interfere with maintenance of the 8-hour ozone NAAQS."[79]

Applying EPA's approach here leads to the inescapable conclusion that Mecklenburg County, North Carolina is likely to fall back into nonattainment, and that therefore it is likely that interstate transport of NO_x from certain states upwind of North Carolina will interfere with maintenance of the 8-hour ozone NAAQS by North Carolina absent upwind summer ozone season NO_x reductions. Not only is Mecklenburg is projected to attain the ozone NAAQS by 2010 by less than 3 ppb, but also year-to-year variability in Mecklenburg's ozone design values has frequently and widely exceed this margin over the last 20 years.

In view of the above, EPA must grant North Carolina's 126 Petition with respect to ozone, and require that power plants in Georgia, Maryland, South Carolina, Tennessee and Virginia reduce their ozone season NO_x emissions to eliminate their contribution to North Carolina's maintenance problem.[80]

B. Upwind Reductions are Required by Section 126 to Eliminate Significant Contributions to Existing Nonattainment

[78] *See, e.g.*, 70 Fed. Reg. at 25195; and EPA, *Corrected Response to Significant Public Comments on the Proposed Clean Air Interstate Rule*, (April 2005) (hereafter "RTC"), Response to III.C.17 Comment, pages 134-151.
[79] RTC, Response to III.C.17 Comment, pages 147-151.
[80] As indicated above, at footnote 75 and accompanying text, EPA originally found in its CAIR proposal that these 5 states contributed to ozone nonattainment in North Carolina. EPA will need to confirm these linkages, and perhaps add others, using revised modeling and analysis utilized in the final CAIR.

EPA's denial of North Carolina's Petition with respect to ozone is unlawful for a second reason. As mentioned previously, EPA based that denial on its revised projection in the final CAIR that no North Carolina area would be in nonattainment in 2010.[81] However, EPA's denial ignores the fact that six North Carolina areas are presently in nonattainment; over 50 percent of North Carolina's population lives in these areas.[82] Section 126 provides for a downwind state to petition for a finding that any group of stationary sources "emits or would emit" pollution in violation of the Section 110(a)(2)(D) prohibition. Thus, EPA's response to such a petition cannot be limited to projections of future attainment status. Rather, it must also address contributions to current nonattainment.

EPA does not discuss its rationale for denying North Carolina's Petition other than by referring to its projection in the final CAIR that all North Carolina counties should be in nonattainment in 2010. We believe, however, that EPA's analysis in CAIR cannot control its response to North Carolina's 126 Petition on this issue. Not only are North Carolina's specific circumstances different from those considered by EPA in the CAIR rulemaking for the eastern half of the country as a whole, but more, importantly, Section 126 requires that EPA eliminate *presently existing* significant contribution to nonattainment, even assuming *arguendo* that Section 110(a)(2)(D) does not. Section 126 applies to sources that "emit or would emit," speaking clearly to both present and future emissions. Further, Section 126 provides a tight timeline for EPA response, and for elimination of the prohibited emissions—three months, but no later than three years. In contrast, Section 110 (a)(2)(D) prohibits emissions which "will" contribute significantly to nonattainment, and provides no explicit timeline for elimination of those emissions.

Thus, Section 126 requires EPA to identify upwind sources *now* that contribute to *existing* nonattainment, and not to base its finding on projections of future nonattainment and contribution in 2009—some five years after North Carolina filed its petition. Using the present case as an example makes this clear. North Carolina's Petition was filed in March 2004. Had EPA responded to that petition in a timely manner—no later than November, 2004—controls would have been required on identified sources a maximum of three years later, by November

[81] *See, e.g.*, 70 Fed. Reg. at 49711.

[82] Those areas are Greensboro-Winston-Salem-Highpoint, Great Smoky Mountain NP, Hickory-Morganton-Lenoir, Raleigh-Durham-Chapel Hill, Rocky Mount, and Charlotte-Gastonia-Rock Hill. See, e.g., EPA's Green Book, available on the internet at http://www.epa.gov/oar/oaqps/greenbk/qncl13.html.

2007. Clearly, under such circumstances, Congress could not have intended that EPA choose some date in the future—even a date after offending sources would be required to control their emissions—to project which areas would then be in nonattainment and which sources would then be required to reduce their emissions. Under any rational interpretation of Section 126, the sources to be controlled must be selected on the basis of circumstances existing prior to the date the controls are required to be installed.

Furthermore, several of the considerations discussed above that led EPA in CAIR to find second phase controls necessary to prevent interference with maintenance by certain receptor areas projected to be in attainment by 2015 are relevant here. In fact, they should lead EPA here to conclude that it should not deny North Carolina's Petition with respect to ozone solely based on CAIR projections of North Carolina's 2010 attainment status. That is, the facts that:

- EPA first projected Mecklenburg County to be in nonattainment in 2010;
- EPA then projected Mecklenburg County to be in attainment, but only by a slim 2 ppb margin;
- Historical data from Mecklenburg County clearly demonstrates significantly greater ozone variability;

all call into question the likelihood that EPA's projection will in fact be realized. In view of the substantial uncertainty as to North Carolina's ozone attainment status as of 2010, the certainty of a substantial portion of the state currently being in nonattainment, and EPA's findings of significant contribution from certain upwind states to North Carolina's ozone air quality, EPA must grant North Carolina's Petition with respect to 8-hour ozone, and require ozone season NO_x emission reductions from power plants in Georgia, Maryland, South Carolina, Tennessee and Virginia.

V. Any Emissions Trading Program that EPA Adopts as Part of a North Carolina Section 126 Remedy Must Ensure that Emissions Actually Impacting North Carolina are Eliminated

Once EPA determines that emissions from certain states upwind of North Carolina are significantly contributing to nonattainment in, or interfere with maintenance by, North Carolina areas, those particular emissions must be eliminated.[83] It is not enough that emissions from some other area of the country, even those within the CAIR region, are controlled; rather, at a minimum the required reductions must come from the states identified by EPA as contributing significantly to $PM_{2.5}$ or 8-hour ozone nonattainment or maintenance problems.[84]

We do not argue that emissions trading will necessarily render North Carolina's Section 126 remedy inadequate and unlawful. However, we do believe that for such a remedy to be lawful it must eliminate those emissions prohibited by Sections 126 and 110—that is, annual NO_x and SO_2 emissions within those states that are contributing to North Carolina's PM nonattainment problems, and ozone season NO_x emissions contributing to North Carolina's ozone nonattainment and maintenance problems.[85]

EPA's proposed response with respect to North Carolina's $PM_{2.5}$ nonattainment problem, however, does not ensure that the prohibited emissions will be eliminated. Rather, EPA simply proposes as a full and complete Section 126 remedy, without adjustment, limitation or correction, imposition of the CAIR cap-and-trade program for power plants within the NC PM Control Region. By virtue of the CAIR trading regime, however, plants within the NC PM Control Region may participate in trading with power plants outside of that region. Thus, power plants located in Georgia or Tennessee close to North Carolina nonattainment areas may chose to meet their emission requirements by purchasing SO_2 allowances from Minnesota (or even California) and NO_x allowances from Massachusetts, rather than by controlling emissions at their own plants. In such an event, the prohibited Georgia or Tennessee emissions will *not* be

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[83] *See, e.g.*, 70 Fed. Reg. at 49716-17.

[84] Those states that EPA has found to be contributing significantly to North Carolina $PM_{2.5}$ nonattainment are Alabama, Georgia, Indiana, Kentucky, Ohio, Pennsylvania, South Carolina, Tennessee, West Virginia and Virginia (this area is hereafter referred to as the "NC PM Control Region"). Those states which EPA data shows are contributing to North Carolina's ozone problem (and as we explain above, at section IV of these comments, interfering with maintenance by, and significantly contributing to nonattainment in, North Carolina) are Georgia, Maryland, South Carolina, Tennessee and Virginia. *See, e.g.*, 70 Fed. Reg. at 49711.

[85] We refer here to both reductions necessary with respect to both the PM and ozone NAAQS, even though EPA proposes to deny the NC 126 Petition with respect to zone. In section IV of these comments, we demonstrate that EPA must grant the ozone portion of the NC Petition as well. For ease of reference, we will hereafter refer only to this trading issue in the context of the NC PM Control Region or the NC Control Region, even though once the ozone portion of the NC Petition is granted, these comments apply to the ozone control region listed in footnote 84, *supra* as well.

eliminated, and North Carolina will *not* receive the benefit to which it is entitled under Section 126 and 110 of the Act.

Limiting the response to North Carolina's 126 Petition to the application of the unrestricted emissions trading regime of CAIR raises other issues. Table 1 below, prepared by Environmental Defense, displays EPA's own projections of coal-fired power plants in the CAIR control region in the eastern United States that in 2015 will not have installed scrubbers to control SO_2 emissions. According to these EPA projections, there will be over 450 coal-fired units in the CAIR region in 2015 without SO_2 scrubber controls. These units are anticipated to emit 2.8 million tons of SO_2 in 2015. In our region in the same year, EPA predicts 75 units, emitting over 460,000 tons of SO_2, will remain unscrubbed in Tennessee, Georgia, South Carolina and Virginia – the states bordering North Carolina. Furthermore, North Carolina's closest neighbors will emit far greater uncontrolled SO_2 than will North Carolina itself; in fact, unscrubbed SO_2 emissions from Georgia's coal plants are projected to be 157,000 tons annually in 2015, over *six times* that from North Carolina plants.

Table 1
Clean Air Interstate Rule in 2015
EPA's Own Modeling Shows Numerous Coal-Fired Power Plants without Scrubbers for Sulfur Dioxide in CAIR Region

States included in CAIR	Number of Electric Generating Units w/out SO_2 Controls	SO_2 Emissions from Units w/out SO_2 Controls [tons]	Capacity of Units w/out SO_2 Controls [Megawatts]
Alabama	24	183,000	6230
Arkansas	5	82,000	3817
Connecticut	-	-	-
Delaware	6	47,000	994
District of Columbia	-	-	-
Florida	11	74,000	2210
Georgia	13	**157,000**	4864
Illinois	34	208,000	10,666
Indiana	35	234,000	8137
Iowa	24	118,000	4980
Kentucky	22	97,000	3067
Louisiana	3	52,000	1730
Maryland	-	-	-
Massachusetts	3	13,000	300
Michigan	53	384,000	11,249
Mississippi	13	30,000	1571
Minnesota	4	62,000	1805
Missouri	32	241,000	9763
New Jersey	2	12,000	209
New York	8	28,000	648
North Carolina	23	**24,000**	1356
Ohio	27	84,000	2969
Pennsylvania	7	32,000	714
South Carolina	16	**85,000**	2187
Tennessee	26	**125,000**	4088
Texas	19	235,000	8859
Virginia	20	**100,000**	2596
West Virginia	-	-	-
Wisconsin	26	118,000	4254
TOTALS	**456**	**2.82 million tons**	**99,263**

IPM File for EPA Final CAIR parsed for year 2015 (Final CAIR modeling):
http://www.epa.gov/airmarkets/epa-ipm/iaqr/ipm_finalcair2015parsed.xls
CAIR-only states
Coal only (removed all gas- and oil-fired plants)
Removed plants ≤ 25 MW
Removed plants with existing SO_2 control (under 'EMF Controls' column)
Removed plants predicted by model to have SO_2 controls in 2015 (under 'Retrofit SO2/NO_x Controls' column)

The Clean Air Act requires communities to comply as expeditiously as practicable with ambient air quality standards, and we know that it is highly cost-effective to cut SO_2 emissions to a much lower level than the CAIR cap. Thus, it is of particular concern that EPA is considering a response to North Carolina's 126 Petition that fails to address so many power plant units so close to North Carolina's borders. In addition, as EPA has emphasized, one of the primary goals of rulemakings to reduce the regional transport of pollution under Sections 126 and 110 is to "promot[e] a reasonable balance between upwind state controls and local (including all in-state) controls to attain and maintain the NAAQS."[86] As demonstrated by EPA's projections in Table 1, CAIR alone will not achieve anything approaching a reasonable balance between North Carolina and its closest neighbors. While emissions trading has been often shown to be an effective means of reducing pollution, EPA must also require plants near North Carolina's borders to install modern emission controls or otherwise significantly reduce their pollution.

We believe that there are several approaches that EPA might consider to ensure that the emission reductions within the NC Control Region are actually realized. They include:

- requiring some type of allowance flow control, as used successfully by the Ozone Transport Commission;
- requiring higher out-of-region trading ratios, which would allow plants within the NC Control Region to trade emission allowances with other plants within that region per the normal CAIR requirements, but would allow those plants to purchase allowances from plants outside of the NC Control Region only by surrendering additional allowances for retirement (for example, double or triple the normal CAIR requirement); or
- limiting allowance trading among plants located within the NC Control Region to that region, and prohibiting trading with plants outside that region.

These approaches would permit plants within the NC Control Region to benefit from the flexibility that emissions trading offers, while at the same time protecting the health and environment of North Carolina. The acid test to measure the validity of any emissions trading program adopted by EPA as part of an adequate remedy responsive to North Carolina's Petition

[86] *See, e.g.*, 70 Fed. Reg. at 25193.

is that it must ensure that the prohibited emissions from the NC Control Region will be eliminated, so that in the aggregate, the emissions budgets for the states in the NC Control Region are not exceeded.

VI. Conclusion

Every day, millions of North Carolinians breathe air that violates EPA's health-based standards for ozone and/or fine particle pollution. North Carolina's leaders have done their part by enacting the Clean Smokestacks Act. EPA must now act to grant North Carolina its requested relief under Section 126 of the CAA, which provides the sole mechanism available to the state to address upwind emissions that impair the state's air. Since the technical determinations to support North Carolina's petition already exist, EPA must make the requested findings. With respect to the appropriate remedy, EPA's proposal to substitute FIPs or SIPs implementing CAIR under Section 110 for its duty to directly regulate upwind sources within three years under Section 126 violates the CAA and established case law. Instead, EPA must comply with Section 126 and provide North Carolina with a remedy that controls upwind sources whose emissions impair the state's air quality now or in future within a maximum of three years.

Thank you for the opportunity to submit these comments, on behalf of ourselves and the above-listed groups. Please contact the undersigned with any questions or requests for additional information.

Respectfully submitted,

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Attachment 2

UNITED STATES OF AMERICA
ENVIRONMENTAL PROTECTION AGENCY

Air Pollution Control—Transport of Emissions of Nitrogen Oxides (NO_X) and Sulfur Dioxide (SO_2); Final Rule	)))	Docket No. EPA–HQ–OAR–2004–0076

Affidavit of Sheila Holman

1. My name is Sheila Holman. I am Chief of the Planning Section of the North Carolina Department of Environment and Natural Resources, Division of Air Quality ("DAQ").

2. In my role at DAQ, I am responsible for supervising the State's efforts to plan for the attainment of national ambient air quality standards ("NAAQS") under the federal Clean Air Act.

3. The process of planning for attainment requires the modeling of air quality conditions at future dates to determine the effectiveness of emissions control strategies for attaining the NAAQS. With regard to planning for the attainment of the eight-hour ozone NAAQS, my staff has coordinated this modeling exercise with the Visibility Improvement State and Tribal Association of the Southeast ("VISTAS"), and the Association for Southeastern Integrated Planning ("ASIP").

4. The most recent VISTAS/ASIP model run uses emissions inventories known as Base F4. This run was completed on 16 January 2006. The Base F4 model run projects that the ozone design value in the Charlotte area in 2009 will be 85 parts per billion ("ppb"). One monitor in Mecklenburg County is projected to be at 85 ppb. Three other monitors are projected to be at 84 ppb – a second site in Mecklenburg County and two sites in Rowan County.

5. In order to complete this modeling effort, DAQ, VISTAS, and ASIP are preparing to update the emissions inventories (Base G). The Base G model results will not be available on or before 27 June 2006. I do not anticipate that the Base G results will be significantly different from the results from the Base F4 run.

6. These model runs are being completed as part of the federally mandated state implementation plan ("SIP") attainment planning process, which is not complete yet. Therefore, DAQ has not produced any reports of this modeling. The model results will be reported when the State completes its SIP demonstration.

Further this affiant says not.

This the 26th day of June, 2006.

Sheila Holman

Sheila Holman

Sworn to and subscribed before me,

this 26th day of June, 2006

Amy VanderKop

Notary Public

Amy Vanderkop

My Commission expires: 3/13/10

AMY VANDERKOP NOTARY PUBLIC WAKE COUNTY, NC

Attachment 3

UNITED STATES OF AMERICA
ENVIRONMENTAL PROTECTION AGENCY

Air Pollution Control—Transport of Emissions of Nitrogen Oxides (NO_X) and Sulfur Dioxide (SO_2); Final Rule	)))	Docket No. EPA–HQ–OAR–2004–0076

Affidavit of Hoke Kimball

1. My name is Hoke Kimball. I am Chief of the Ambient Monitoring Section of the North Carolina Department of Environment and Natural Resources, Division of Air Quality ("DAQ").

2. In my role at DAQ, I supervise the collection and statistical analysis of data from the State's network of ambient air quality monitors.

3. The State's ambient monitoring network includes monitors for fine particulate matter ("PM2.5"). My staff routinely, and in accordance with all relevant laws, rules, and guidance, collects samples from this network, assures the quality of the data, and calculates the design values for comparison to the national ambient air quality standards. A design value is a summary statistic of raw ambient concentration data that is calculated according to interpretation methodology issued by EPA.

4. Design values for PM2.5 calculated from data collected in Catawba County include, for 2001-2003, 15.5 $\mu g/m^3$; for 2002-2004, 15.1 $\mu g/m^3$; and for 2003-2005, 15.3 $\mu g/m^3$.

5. Design values for PM2.5 calculated from data collected in Davidson County include, for 2001-2003, 15.8 $\mu g/m^3$; for 2002-2004, 15.4 $\mu g/m^3$; and for 2003-2005, 15.2 $\mu g/m^3$.

6. Design values for PM2.5 calculated from data collected in Mecklenburg County include, for 2001-2003, 14.9 $\mu g/m^3$; for 2002-2004, 14.9 $\mu g/m^3$; and for 2003-2005, 15.3 $\mu g/m^3$.

7. Because the values for the 2003-2005 period use air quality samples collected at regular intervals throughout the entire calendar years, which must be quality assured, reliable design values for this period could not be calculated until several months into 2006.

8. I anticipate that I will certify the raw concentrations for calendar year 2005 by 30 June 2006, and that official certification by EPA will occur probably during

July 2006. I do not expect these concentrations and the design values derived from them to change after my certification is signed. (The raw concentration values for previous years spanned by design values reported above already have been officially certified.)

Further this affiant says not.

This the 26th day of June, 2006.

Hoke P. Kimball

Hoke Kimball

Sworn to and subscribed before me

This 26th day of June, 2006.

Amy Vanderkop

Notary Public

Amy Vanderkop

My Commission expires: 3/13/10

AMY VANDERKOP NOTARY PUBLIC WAKE COUNTY, NC