**Final Report** 

# of the

# Small Business Advocacy Review Panel

# on EPA's Planned Proposed Rules

# Federal Implementation Plan for the Clean Air Interstate Rule

and

Response to North Carolina's Petition Pursuant to Section 126 of the Clean Air Act

June 27, 2005

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### 1. INTRODUCTION

This report is presented by the Small Business Advocacy Review Panel (SBAR Panel or Panel) convened for two proposed rulemakings on the Federal Implementation Plan for the Clean Air Interstate Rule and the Response to North Carolina's Petition Pursuant to Section 126 of the Clean Air Act that are currently being developed by the U.S. Environmental Protection Agency (EPA). Under section 609(b) of the Regulatory Flexibility Act (RFA) as amended by the Small Business Regulatory Enforcement Fairness Act of 1996 (SBREFA), a Panel is required to be convened prior to publication of the initial regulatory flexibility analysis (IRFA) that an agency may be required to prepare under the RFA. In addition to EPA's Small Business Advocacy Chairperson, the Panel consisted of the Director of the Office of Air Quality Planning and Standards within EPA's Office of Air and Radiation, the Administrator of the Office of Information and Regulatory Affairs within the Office of Management and Budget, and the Chief Counsel for Advocacy of the Small Business Administration.

This report includes the following:

- background information on the proposed rule under development;
- information on the types of small entities that would be subject to the proposed rule;
- a summary of the Panel's outreach activities; and
- the comments and recommendations of the Small Entity Representatives (SERs).

Section 609(b) of the RFA directs the Panel to report on the comments of small entity representatives and its findings on issues related to identified elements of an IRFA prepared pursuant to section 603 of the RFA. Those elements of an IRFA are:

- a description of and, where feasible, an estimate of the number of small entities to which the proposed rule will apply;
- a description of projected reporting, record keeping, and other compliance requirements of the proposed rule, including an estimate of the classes of small entities which will be subject to the requirements and the type of professional skills necessary for preparation of the report or record;
- an identification, to the extent practicable, of all other relevant Federal rules which may duplicate, overlap, or conflict with the proposed rule; and
- any impacts on small entities of the proposed rule and significant alternatives to the proposed rule which accomplish the stated objectives of applicable statutes and which minimize any significant economic impact of the proposed rule on small entities.

Once completed, the Panel report is provided to EPA and will be included in the rulemaking record. In light of the Panel report, and where appropriate, EPA will make changes to the draft proposed rule, the IRFA for the proposed rule, or the decision on whether an IRFA is required.

It is important to note that the Panel's findings and discussion are based on the information available at the time the final Panel report is drafted. EPA will continue to conduct analyses relevant to the proposed rule, and additional information may be developed or obtained during the remainder of the rule development process. The Panel makes its report at a preliminary stage of rule development and its report should be considered in that light. At the same time, the report provides the Panel and the Agency with an opportunity to identify and explore potential ways of shaping the proposed rule to minimize the burden of the rule on small entities while achieving the rule's purposes.

Any options identified by the Panel for reducing the rule's regulatory impact on small entities may require further analysis and/or data collection to ensure that the options are practicable, enforceable, environmentally sound, and consistent with the Clean Air Act .

### 2. BACKGROUND AND REGULATORY HISTORY

### 2.1 Regulatory History

### 2.1.1 Regulations Under Consideration

The two rules under consideration concern the transport of fine particles and ozone across state lines. They are being developed as part of the Administration's plan to reduce emissions of nitrogen oxides (NOx) and sulfur dioxide (SO<sub>2</sub>) in states that significantly contribute to high levels of fine particles and/or ozone in downwind states. Counties in downwind states can find it difficult or impossible to attain the National Air Ambient Air Quality Standards (NAAQS) for fine particles and ozone using local controls only. In addition, ambient levels above the NAAQS can affect the health of residents in downwind communities. Interstate transport of these substances thus raises issues of fairness and economic equity between states. Further, transport of these pollutants can be significant, for example, modeling shows that air quality in North Carolina is impacted by emissions from other states as geographically diverse as Michigan and Alabama.

The first rule under consideration - the Federal Implementation Plan for CAIR (CAIR FIP) - is being developed to establish a federal mechanism to ensure compliance with the requirements of the Clean Air Interstate Rule (CAIR). CAIR was published in the Federal Register on May 12, 2005 (70 FR 25162) as part of the Administration's effort to address interstate transport of air pollution. EPA has found that 28 states and the District of Columbia contribute significantly to nonattainment of the national ambient air quality standards (NAAQS) for fine particles and/or 8-hour ozone in downwind states. CAIR identifies the specific amount

by which  $SO_2$  and NOx emissions must be reduced based on state obligations to address interstate transport of pollutants under section 110(a)(2)(D) of the Clean Air Act. In accordance with section 110 of the Clean Air Act, states have the primary responsibility for developing regulations to implement, maintain and enforce these requirements. CAIR gives states 18 months to submit revised SIPs that fulfill this obligation. Section 110(c) of the Clean Air Act requires the Administrator to promulgate a Federal Implementation Plan (FIP) within two years of finding a plan deficient, unless the state corrects the deficiency and the Administrator approves the plan or plan revision before the Administrator promulgates the FIP.

The second rule under consideration - EPA's Response to North Carolina's Section 126 Petition - is being developed to respond to the petition submitted in March 2004 by North Carolina pursuant to Section 126 of the Clean Air Act. This petition requests that EPA find that certain emissions of  $SO_2$  and/or NOx from large Electric Generating Units (EGUs) in 13 upwind states significantly contribute to nonattainment and interfere with maintenance by the state of North Carolina with the standards for fine particulate matter and/or ozone. Such findings would authorize EPA to set federal limits for the affected sources. EPA must propose a response to the petition by August 1, 2005, with final action by March 15, 2006.

### 2.1.2 Public Health and Environmental Concerns

In 1997, EPA revised the NAAQS for particulate matter (PM) to add new standards for fine particles, which they define as particles with diameters smaller than 2.5 micrometers, termed PM2.5. We established health- and welfare-based (primary and secondary) annual and 24-hour (emissions average) standards for PM2.5. Fine particles are associated with a number of serious health effects including premature mortality, aggravation of respiratory and cardiovascular disease (as indicated by increased hospital admissions, emergency room visits, absences from school or work, and restricted activity days), lung disease, decreased lung function, asthma attacks, and certain cardiovascular problems. The EPA has estimated that attainment of the PM2.5 standards would, each year, prolong tens of thousands of lives and prevent tens of thousands of hospital admissions as well as hundreds of thousands of doctor visits, absences from work and school, and respiratory illnesses in children. Individuals particularly sensitive to fine particle exposure include older adults, people with heart and lung disease, and children. More detailed information on the health effects of fine particles can be found on EPA's website at: http://www.epa.gov/ttn/naaqs/standards/pm/s\_pm\_index.html.

Both  $SO_2$  and NOx emissions contribute to fine particle concentrations. In addition, NOx emissions contribute to ozone problems, described in the next section. The PM2.5 ambient air quality monitoring for the 2001-2003 period shows that areas violating the standards are located across much of the eastern half of the United States and in parts of California, and Montana. The population of the 225 counties which are designated as nonattainment for the annual PM2.5 standard totals almost 95 million people.

In 1997, EPA also promulgated revised and identical primary and secondary standards for ozone that are more protective of public health and the environment and more stringent than

the previous 1-hour ozone standards. Short-term (1- to 3-hour) and prolonged (6- to 8-hour) exposures to ambient ozone have been linked to a number of adverse health effects. Short-term exposure to ozone can irritate the respiratory system, causing coughing, throat irritation, and chest pain. Ozone can reduce lung function and make it more difficult to breathe deeply. Breathing may become more rapid and shallow than normal, thereby limiting a person's normal activity. Ozone also can aggravate asthma, leading to more asthma attacks that require a doctor's attention and the use of additional medication. Increased hospital admissions and emergency room visits for respiratory problems have been associated with elevated ambient ozone exposures. Longer-term ozone exposure can inflame and damage the lining of the lungs, which may lead to permanent changes in lung tissue and irreversible reductions in lung function. People who are particularly susceptible to the effects of ozone include children, people with respiratory diseases, such as asthma, and people with unusual sensitivity to ozone. Those who spend extended periods of time outdoors are likely to have higher ozone exposure than those who spend more time indoors. More detailed information on health effects of ozone can be found at the following EPA website:

http://www.epa.gov/ttn/naaqs/standards/ozone/s\_o3\_index.html

In addition to causing adverse health effects, ozone affects vegetation and ecosystems, leading to reductions in agricultural crop and commercial forest yields; reduced growth and survivability of tree seedlings; and increased plant susceptibility to disease, pests, and other environmental stresses (e.g., harsh weather). In long-lived species, these effects may become evident only after several years or even decades and have the potential for long-term adverse impacts on forest ecosystems. Ozone damage to the foliage of trees and other plants can also decrease the aesthetic value of ornamental species used in residential landscaping, as well as the natural beauty of our national parks and recreation areas. The economic value of some welfare losses due to ozone can be calculated, such as crop yield loss from both reduced seed production (e.g., soybean) and visible injury to some leaf crops (e.g., lettuce, spinach, tobacco), as well as visible injury to ornamental plants (i.e., grass, flowers, shrubs). Other types of welfare loss may not be quantifiable (e.g., reduced aesthetic value of trees growing in heavily visited national parks).

Almost all areas of the country have experienced some progress in lowering ozone concentrations over the last 20 years. However, ozone remains a significant public health concern. Presently, wide geographic areas, including most of the nation's major population centers, experience ozone levels that violate the NAAQS for 8-hour ozone. These areas include much of the eastern part of the United States and large areas of California. More specifically, 474 counties with a total population of over 159 million people are currently designated as nonattainment for the 8-hour ozone standard. When ozone and PM2.5 are examined jointly, 190 counties nationwide are in nonattainment for both PM2.5 and ozone standards with a total population of around 94 million people. Of these, most are in the eastern United States.

In 1999, EPA promulgated the Regional Haze program, which is designed to protect against major environmental effects caused by PM and ozone, such as visibility impairment. Reductions in NOx and SO<sub>2</sub> will contribute to substantial visibility improvements in many parts

of the eastern U.S. where people live, work, and recreate, including nationally important areas such as the Great Smoky Mountains. Reductions in these pollutants will also reduce acidification and eutrophication (nutrient pollution) of water bodies in the region. In addition, reducing emissions of NOx and  $SO_2$  from electric generating units can be expected to reduce emissions of mercury. Reduced mercury emissions in turn may reduce mercury loadings in lakes and thereby potentially decrease both human and wildlife exposure to fish containing mercury.

### 2.2 Description of the Rules Under Consideration

### 2.2.1 Federal Implementation Plan Rule for the Clean Air Interstate Rule

On May 12, 2005 EPA, as authorized by section 301 of the Clean Air Act, published the CAIR in the Federal Register to ensure compliance with the requirements of section 110(a)(2)(D) of the CAA, relating to interstate transport of air pollution. CAIR requires significant emissions reductions of SO<sub>2</sub> and/or NOx in twenty-eight states and the District of Columbia. NOx and SO<sub>2</sub> are precursors to PM2.5 pollution; NOx is also a precursor to ozone pollution. Twenty-three states and the District of Columbia are required to reduce emissions of SO<sub>2</sub> and NOx because EPA has found that they contribute significantly to PM2.5 nonattainment problems in downwind states. Twenty-five states and the District of Columbia are required to reduce emissions of NOx because EPA has found that they contribute significantly to seasonal ozone nonattainment problems in downwind states. Based on an assessment of the emissions contributing to interstate transport of air pollution and available control measures, EPA has determined that achieving the required reductions in the identified states by controlling emissions from power plants above 25 MW is highly cost effective. When fully implemented, CAIR will require SO<sub>2</sub> emissions in the region to be reduced by approximately 73% from 2003 levels, and will require NOx emissions in the region to be reduced from 2003 levels by approximately 61%.

In a final rule signed the same day as CAIR and published on April 25, 2005, EPA found that states have failed to submit SIPs to satisfy the interstate transport requirements under section 110(a)(2)(D)(i) of the CAA for the PM2.5 and 8-hour ozone NAAQS. (70 FR 21147). These findings give EPA the authority to issue a FIP at any time to correct the deficiencies and require that the Administrator issue a FIP for each state, within two years of making such findings, unless a SIP revision correcting the deficiency is approved by EPA before a FIP is promulgated. CAIR gives States eighteen months to submit revised State Implementation Plans (SIPs) to meet these requirements. It permits states to use either of two compliance options to achieve the required emission reductions: 1) meet the state's emission budget by requiring power plants to participate in an EPA-administered interstate cap and trade system that caps emissions in two stages, or 2) meet an individual state emissions budget through measures of the state's choosing. EPA anticipates that states will achieve required reductions primarily by the first option.

EPA plans to propose a FIP to provide a federal mechanism that could be used to implement the requirements of CAIR. This is one of the rulemakings for which this panel has been convened. Information on the CAIR rule can be found online at the CAIR website

http://www.epa.gov/cair.)

# 2.2.2 Response to North Carolina's Petition Pursuant to Section 126 of the Clean Air Act

In March 2004, North Carolina submitted a petition to EPA pursuant to Section 126 of the Clean Air Act contending that emissions from certain facilities in upwind states contribute significantly to nonattainment in and interfere with maintenance by the state of North Carolina with the PM2.5 and eight-hour ozone standards. The petition requests that EPA find that emissions of NOx and  $SO_2$  from large electric generating units (EGUs) in 12 states are significantly contributing to nonattainment with and interfering with maintenance of the PM2.5 standard and that NOx emissions from EGUs in five states are significantly contributing to 8-hour ozone nonattainment and interfering with maintenance of the standard. If EPA makes such findings, EPA would be authorized to establish Federal emissions limits for the affected sources. EPA has entered into a consent decree with the state of North Carolina, agreeing to respond to the petition through notice-and-comment rulemaking, and to issue proposed findings and any necessary control remedies by August 1, 2005. EPA must take final action by March 15, 2006.

### 2.2.3 States That Could be Affected by The Rules

State	CAIR FIP	S. 126	Included for PM 2.5	Included for Ozone
Alabama	0	0	Х	Х
Connecticut	0	NA		Х
Delaware	0	NA		X
District of Columbia	0	NA	Х	X
Florida	9	NA	Х	X
Georgia	1	1	Х	
Illinois	4	4	Х	X
Indiana	2	2	Х	X
Iowa	18	NA	X	X
Kentucky	1	1	X	X

Table 1. States Potentially Affected by the Planned Proposed Rules, and Estimated Number of Affected Small Entities by State

SBAR Panel Report on CAIR FIP and Section 126 Petition Rules

Louisiana	4	NA	X	X
Maryland	0	0	X	Х
Massachusetts	0	NA		X
Michigan	4	4	Х	X
Minnesota	3	NA	Х	
Mississippi	1	NA	Х	X
Missouri	2	NA	Х	X
New York	0	NA	Х	X
New Jersey	0	NA		X
North Carolina	0	NA	Х	X
Ohio	2	2	Х	X
Pennsylvania	0	0	X	X
South Carolina	1	1	X	X
Tennessee	0	0	X	X
Texas	5	NA	X	
Virginia	0	0	X	X
West Virginia	0	0	X	X
Wisconsin	2	NA	X	X

### 2.3 Related Federal Rules

There are four other Federal rules that may cover the same types of sources and pollutants. As the CAIR was developed, great care was taken that its programs not conflict with other Clean Air Act programs. The same care will be taken with the CAIR FIP and Section 126 response. Below are brief descriptions of the rules that may cover the same types of sources:

- Clean Air Interstate Rule (CAIR): previously described.
- Regional Haze Rule: The Regional Haze Rule was promulgated in 1999 and requires states to establish emission reduction strategies in their SIPs, addressing any kind of source, to improve visibility in all 156 Class I national parks and wilderness areas.

- Acid Rain: The title IV Acid Rain Program was part of the 1990 Clean Air Act Amendments. The program covers EGUs and consists of a cap-and-trade program for SO<sub>2</sub> and facility specific NOx emissions standards.
- NOx SIP call: The NOx SIP call was promulgated in 1998 to reduce significant transport of NOx in the east and covers EGUs and other major stationary sources; this program allowed states to participate in a region wide cap-and-trade program for NOx.

### 3. OVERVIEW OF PROPOSALS UNDER CONSIDERATION

### 3.1 Potential Requirements and Guidelines

As EPA begins to develop the FIP, it intends to use the CAIR model trading rules as a starting point. EPA also plans to base a component of its Section 126 Response on these model rules. Thus, the CAIR model trading programs are explained in some detail below.

The CAIR model trading programs, if implemented by the affected states, would cap  $SO_2$  and NOx emissions from large EGUs and would ensure that the necessary reductions in pollution transport are achieved while providing the flexibility and cost effectiveness of market-based systems. The development of these model cap-and-trade programs incorporated the experience gained through EPA's experience in successfully implementing national and regional cap-and-trade programs (i.e., title IV Acid Rain Program and the NOx SIP Call).

General program requirements of the CAIR model rules:

# 3.1.1 Applicability

The CAIR model cap-and-trade programs would apply to fossil fuel-fired EGUs serving, at any time since start-up, an electrical generator with a nameplate capacity exceeding 25MW and producing power for sale, as well as cogeneration units serving at any time a generator with a nameplate capacity exceeding 25 MW and supplying more than 1/3 of potential electric output capacity in any calender year to the grid.

# 3.1.2 Allowance Management System, Compliance, Penalties, and Banking

The integrity of the allowance management system (which includes provisions for accurate and efficient accounting, compliance, penalties, and banking mechanisms) is very important to the functioning of a cap and trade program. The CAIR model trading rules would use allowance tracking provisions reasonably consistent with the allowance tracking systems that are currently in use for the Acid Rain Program under title IV and the NOx Budget Trading Program under the NOx SIP Call. These two systems are called the Allowance Tracking System (ATS) and the NOx Allowance Tracking System (NATS), respectively. Compliance, penalty, and banking provisions in the cap and trade program would be consistent with those provisions

in the CAIR model trading rules.

# 3.1.3 Emissions Monitoring and Reporting

The CAIR model trading rules, if implemented by affected states, would require sources to monitor their emissions using Part 75 of the Acid Rain regulations (40 CFR part 75). Generally Part 75 requires the use of continuous emissions monitoring systems (CEMS), but it does have other options for certain oil and gas fired units. Additionally, in order to account for all emissions at all times, provisions for estimating emissions during times when monitors are unavailable because of planned and unplanned outages would also be necessary. Part 75 sets forth monitoring and reporting requirements for both SO<sub>2</sub> and NOx mass emissions and includes the additional provisions necessary for a cap and trade program. Part 75 is used in both the Acid Rain and NOx SIP Call programs.

# 3.1.4 Annual SO<sub>2</sub> Trading Program

The CAIR  $SO_2$  model rule would allow the use of title IV allowances directly for compliance with the trading rule. Specifically, sources affected by the model CAIR trading rules would comply with the rule by using more than one title IV allowance for every ton emitted using the retirement ratios established in the final CAIR model rules. Because title IV allocates virtually all of the Acid Rain Program allowances directly to individual sources, EPA would not develop a methodology under a FIP to allocate allowances to individual units. In other words, the allocation methodology prescribed by title IV would continue independently of any SIP or any FIP, implementing the model CAIR trading rules.

# 3.1.5 Annual and Seasonal NOx Trading Programs

The NOx cap-and-trade program in the CAIR model trading rules is substantially similar in its basic requirements and procedures to the proposed  $SO_2$  program discussed above. Under the CAIR NOx model trading rules, however, EPA would allocate new CAIR NOx annual and seasonal allowances to states, who would then allocate these allowances to sources. The sum of these allowance allocations in any year would be equal to the cap for that year. In the CAIR FIP, EPA would develop a methodology for allocating annual and seasonal NOx allowances directly to sources.

# 3.2 Small Entity Flexibility Options

# 3.2.1 Presumed exemption

EPA intends to propose exempting EGUs that generate less than or equal to 25 MW from the requirements of both the CAIR FIP and the Section 126 Response. This approach is consistent with the reduction requirements of the CAIR cap and trade approach, which requires emission reductions from EGUs that exceed 25 MW. We will take this exemption protecting small entities into account when developing plans to ensure compliance with the emissions

reduction requirements. Use of any other regulatory alternatives would require EPA to make additional adjustments to ensure that the overall emissions cap is met. That is, if small entity compliance flexibility results in greater total emissions from those entities, then emissions reductions of the same quantity will need to be obtained from other sources.

3.2.2 Additional Small Entity Flexibilities Under Consideration

3.2.2.1. Option 1 - An alternative compliance method for units with low emissions

Under this option, units that emit below a specified amount (e.g. 25 tons, the cutoff used in the NOx SIP Call) could opt to take an enforceable mass emission limitation in lieu of complying with the requirements of the trading program. This enforceable mass emission limitation requires the source to surrender some operational flexibility in order to meet this limitation. For NOx, EPA could ensure that the cap was met by retiring allowances equivalent to the permit limitation (and that number of allowances would be subtracted from the number of allowances available to other sources). This approach was suggested as part of the NOx SIP Call SBREFA process and was incorporated into the final NOx SIP Call Rule. There has been limited use of this approach in the NOx SIP Call. One reason it has only been used in a few cases is because of the tension between small sources that wish to have as high a permit limit as possible to maintain operational flexibility (and that may also have a general resistance to surrendering operational flexibility) and states that wish to retire as few allowances as possible under this mechanism so they have more allowances to distribute to sources in the trading program. For a more complete description of how this option was applied in the NOx SIP Call, see 63 FR 57463 and 57518. These pages discuss the requirements associated with using this exemption.

In EPA's spreadsheet analysis that was made available to SERs, EPA analyzed three variations of this option for both  $SO_2$  and NOx. These were cutoffs of 25 tons, 50 tons, and 75 tons for NOx, and 50 tons, 100 tons, and 200 tons for  $SO_2$ . A total of 62 units are projected to qualify for some form of this exemption in 2010, and 61 are projected to qualify in 2015. However, the majority of these units are projected to be net sellers of allowances, and so only a few of these units would be projected to take advantage of this option. Given this, EPA would not expect a significant change in emissions reductions from small entities under this option.

Pros:

• This approach would reduce the impacts on small sources that fall below an emissions level specified by EPA. Entities with emissions below this limit could avoid the cost of controls or allowance purchases. For the purposes of EPA analysis, compliance costs for units that qualified for this exemption were adjusted to reflect the fact that the units would no longer be purchasing (or selling) allowances.

Cons:

- A mechanism to ensure that the  $SO_2$  cap was met would have to be developed. This approach is easier to implement for NOx. For  $SO_2$ , the fact that allowances are already allocated under the Acid Rain program would make implementation more difficult. In order to ensure that the cap was met, other (larger) units would have to turn in  $SO_2$  allowances at a greater ratio. Even with careful consideration of the appropriate ratios, utilization shifting could introduce uncertainty as to whether the  $SO_2$  cap would be met. For NOx, allowances available for units not using this exemption would be decreased to maintain the caps.
- This approach would not reduce costs for larger emitting small entities that did not meet the applicability threshold. Some of these entities are projected to experience significant impacts under CAIR.
- A number of those potentially relieved by this option are projected to be net sellers of allowances. EPA projects that only a handful of small entities would experience a savings from these options as EPA have analyzed them in either 2010 or 2015.
- Small entities selecting this option would have to report annually to EPA that they are complying with their permit requirement. Also, this requirement would place an additional administrative burden on EPA because it creates a separate compliance requirement for some sources.
- EPA observed that this approach was not attractive to most eligible sources under the NOx SIP call.

# 3.2.2.2. Option 2 - To buy allowances from EPA at a fixed price

Sources owned by small entities could be provided more certainty by giving them the option of buying allowances from EPA for a fixed price. This fixed allowance price could be set either lower, or higher, than the projected allowance price. Setting it lower would result in more small entities using this provision (including small entities that were not significantly impacted). Setting it higher would not reduce the projected cost, but it would give small entities certainty about the maximum cost of compliance and would limit the vulnerability of small entities to the market volatility that has historically been common at the beginning of cap and trade programs. EPA's projected allowance prices under CAIR are:

	2010	2015
SO <sub>2</sub>	\$700	\$1000
NOx	\$1300	\$1600

In discussing this approach, EPA has considered the ramifications of making allowances available to small entities at either a below market price or an above market price. These two choices represent two distinct policy goals. Choosing a below market price would suggest that the cap-and-trade approach would not provide sufficient flexibility and cost reductions to small entity sources relative to a command and control approach, and would attempt to address that concern. This thinking is counter to the objective of equating marginal costs among sources that is inherent in a cap-and-trade program. Use of a below projected price would also present more complicated implementation issues. Assuming EPA's projected allowance prices are accurate, all eligible small entity sources purchasing allowances would attempt to purchase allowances that the below market price, possibly creating a demand in excess of the number of allowances that EPA would have to set-aside ahead of time. Finally, making allowances available at a below-market price could possibly deter the installation of control technologies at small entity sources where installation of controls would otherwise be economical under the trading program.

Choosing an allowance price above the allowance price projected by EPA would provide certainty to small entity sources in the event of unanticipated market volatility, particularly early in the trading program. For example, the safety valve price might be set at 20 % above the projected allowance price. While this option would not reduce the projected cost to small entities, it would place an upper limit on the marginal cost faced by these sources, and would allow for more certainty in these sources' financial planning.

Implementation of this option would have to be done in a way that maintains the integrity of the CAIR FIP caps, which represent the reduction requirements under CAIR. For NOx, it is possible that allowances could be purchased from a set-aside of allowances available for purchase to small entity units at the safety valve price. Units would purchase allowances at the safety valve price, and the proceeds from this purchase would be deposited to the U.S. Treasury. For SO<sub>2</sub>, implementation of this option would be more complicated. Because the proposed SO<sub>2</sub> trading program under the CAIR FIP would, like CAIR, make use of existing title IV allowances, EPA would have to increase the SO<sub>2</sub> allowance retirement ratio of larger sources in order to create a set-aside. It is not certain that implementation of Option 2 through adjustment of SO<sub>2</sub> retirement ratios would be difficult to appropriately adjust the SO<sub>2</sub> retirement ratio for entities not affected by this option.

An alternative to implementing an allowance set-aside for small entity sources to purchase at the safety valve price would be to allow small entity sources to pay some price to borrow their own future year allowances. This price would have to be set sufficiently high to prevent this option from being a default compliance option. Further, in order to retain the environmental benefits that the annual caps are intended to generate, and to guarantee that sources would not deplete their future year budgets, EPA would have to limit the number of allowances that could be borrowed from a source's future year budget. If Option 2 were to be implemented in this manner, it would be permitting the use of future year allowances for current year compliance, and reducing the size of the future year allocation accordingly. It should be noted that absent the implementation of Option 2 in this manner, the CAIR FIP would not allow

"borrowing" from the future to meet current compliance requirements.

While implementation of Option 2 in this manner for NOx would be administratively complex, it would be even more complicated for  $SO_2$ , because attainment of the cap is tied to the allowance retirement ratio, which changes between phase I and phase II of the program. First, only sources with title IV allowances would have future accounts from which to borrow. Second, title IV does not allow for the use of future year allowances for current Acid Rain compliance in this manner.

Pros:

- This approach would provide certainty by providing a maximum price that affected units would have to pay.
- This approach would provide the most benefit for sources who are projected to have the highest cost (i.e. those that would comply by buying allowances).

Cons:

- A mechanism to ensure that the  $SO_2$  cap is met would have to be developed. This approach is easier to implement for NOx. For  $SO_2$ , the fact that allowances are already allocated under the Acid Rain program would make implementation more difficult. The need to implement through either a set-aside or borrowing further complicates implementation.
- Allowances could purchased from future budgets for NOx, and if they could for  $SO_2$ , it would be only among sources that are allocated allowances under title IV.
- Requires that price be set correctly to achieve policy goal.

3.2.2.3. Option 3 - Provide sources owned by small entities with a greater share of allowances

This option would attempt to relieve some of the overall cost burden on small entities by reducing the number of allowances that they would need to purchase in order to comply with the CAIR FIP. Due to the differences in unit allocations for NOx and  $SO_2$ , implementation of these options is complicated and would be different under the two programs.

Under the CAIR, EPA provided an example NOx allocation methodology for the allocation of NOx allowances to units in the program. This methodology allocated allowances based on a unit's share of heat input, adjusted by fuel adjustment factors (1.0 for coal, 0.6 for oil and 0.4 for natural gas). The purpose of these fuel adjustment factors was to allocate relatively more NOx allowances to sources where the reduction requirements would be relatively greater because of the fuel burned. One possible means of providing relief to small entities would be to

increase these fuel-adjustment factors for units owned by small entities. The factors would have to be decreased among larger units so that the total amount of allowances allocated would remain unchanged and the NOx cap would be met.

EPA analyzed the potential impacts of this option in a spreadsheet that was included in the SERs outreach package. The spreadsheet looked at variations of this option that increased small entity unit NOx allocations by 10, 15, and 20%. Generally, while this option provided relief to small entities overall, it did not significantly reduce the largest small entity impacts from a cost/revenue perspective.

This option, while ensuring that the NOx cap would be met, would allocate additional allowances to small entities regardless of need, and thus may not be the most effective means of addressing small entities. For example, 81 small entity units are projected to increase revenues in 2010 under CAIR, and while they would not require relief, they would be allocated additional allowances under this option. Conversely, as noted above, our analysis of this option did not suggest that it would transfer allowances to small entities with large projected impacts from a cost/revenue perspective in a way that would make these impacts substantially less severe. For example, the projected 2015 impact on the Dairyland Power Coop (Plant ID: 4140; Unit ID: B4) would improve from a cost impact of 23.2% of revenue to 22.7% of revenue under the variation of Option 3 that would provide the most additional allowances (25% more NOx allowances).

It is possible that EPA could implement this option through a screening process that would require small entity sources that would anticipate financial hardship under the rule to provide information that demonstrates this hardship to EPA. This could include consideration of factors such as allowance allocations and expected compliance strategy and costs. This alternative could create a significant additional administrative burden for both sources and EPA.

Pros:

- This approach would ensure that NOx caps are met.
- This approach would reduce costs for small entities. Implementing this option with a required demonstration of hardship could provided targeted relief to small entities expected to experience more significant impacts.
- If screening for hardship is not considered, the administrative burden of this approach is low relative to other options.

Cons:

- In order to allocate more NOx allowances to smaller units, the allocation to other (larger) units would need be decreased to maintain the same caps.
- This option would provide extra allowances regardless of need, i.e., it may not be the

most effective means of addressing significant impacts. In EPA's spreadsheet analysis of this option, increasing NOx allocations according to the adjustments considered by EPA, while reducing costs to small entities overall, did not achieve substantial reductions in the cost/revenue ratio at the units where this ratio was highest.

This option, if not targeted to units projected to experience financial hardship, would provide additional savings to units that are already projected to experience a cost savings under CAIR.

For SO<sub>2</sub>, the model trading program in the final CAIR uses the existing title IV allowance allocations. Greater reductions are achieved by requiring sources to turn in allowances at a ratio of greater than 1 allowance for each ton of emissions (2 vintage 2010-2014 allowances for each ton of emissions and 2.86 vintage 2015 and beyond allowances for every ton of emissions). Therefore, there is no mechanism to distribute additional allowances to small entity sources. However, it is possible that EPA could provide relief to units owned by smaller entities by requiring them to retire SO<sub>2</sub> allowances at a ratio that is lower than those finalized under CAIR. Implementing this option would reduce certainty that the SO<sub>2</sub> cap would be met. In order to ensure that the cap was met, other (larger) units would have to turn in SO<sub>2</sub> allowances at a greater ratio. Even with careful consideration of the appropriate ratios, utilization shifting could introduce uncertainty as to whether the SO<sub>2</sub> cap would be met.

EPA also simulated the potential effect of this option in the SERs' spreadsheet. The spreadsheet looked at variations of this option that reduced the required  $SO_2$  allowance retirement ratio to 1.9:1, 1.8 :1 and 1.7:1 in 2010 (as opposed to 2:1 under CAIR), and 2.75:1, 2.5:1, and 2.25:1 in 2015 (as opposed to 2.86:1 under CAIR). In the spreadsheet, the implementation of this option is indicated by an increase in the number of  $SO_2$  allowances available to the small entity units for compliance purposes, but not for sale. In practice, small entity units affected by this option would not receive additional  $SO_2$  allowances, but would have to surrender fewer of them to cover their emissions. Generally, while this option would provide relief to small entities overall, it would not significantly reduce the largest small entity impacts from a cost/revenue perspective. However, EPA examined only a limited range of alternative retirement ratios, consistent with its evaluation of this option using NOx allowances.

This option would make the small entity compliance requirement for  $SO_2$  less stringent than it would be under the final CAIR. However, as presented above it would do so regardless of small entity need, and thus may not be the most effective means of addressing small entity impacts. It is possible that EPA could implement this option through a screening process that would require small entity sources that would anticipate financial hardship under the rule to provide information that demonstrates this hardship to EPA. This alternative would likely create a significant additional administrative burden for both sources and EPA.

Pros:

• This approach would reduce costs for small entities. Implementing this option with a

required demonstration of hardship could provided targeted relief to small entities expected to experience more significant impacts.

Cons:

- This option would be difficult to implement.
- In order to ensure that the cap is met, other (larger) units would have to turn in  $SO_2$ allowances at a greater ratio. Even with careful consideration of the appropriate ratios, utilization shifting could introduce uncertainty as to whether the  $SO_2$  cap would be met.
- This option would reduce the compliance requirement regardless of need, i.e., it may not be the most effective means of addressing significant impacts. In EPA's spreadsheet analysis of this option, the SO<sub>2</sub> retirement ratio adjustments considered by EPA, while reducing costs to small entities overall, did not achieve substantial reductions in the cost/revenue ratio at the units where this ratio was highest.
- This option, if not targeted to units projected to experience financial hardship, would provide additional savings to units that are already projected to experience a cost savings under CAIR.

3.2.2.4. Option 4 - Utilize the existing flexibilities within the trading rule

The trading rules in CAIR were developed to provide all sources with flexibility while still ensuring that the emissions caps were met. In general, cap-and-trade programs provide cost savings and flexibility relative to command and control regulation, because they do not mandate a specific approach to emission control. Ultimately, one of the objectives of a cap-and-trade program is to reduce costs relative to a command-and-control policy by equating marginal emission reduction costs across sources, through the ability of sources to buy and sell emission allowances. Units that have higher cost control options can buy allowances from units that have lower cost compliance options. (It should be noted that EPA projects that some units owned by small entities will be net sellers of allowances). The market incentives provided by this approach can lead to newer, more cost-effective means of reducing emissions, as has been observed under the Acid Rain Program and NOx Budget Trading Program.

The CAIR trading rules provide sources with a number of additional flexibilities that would further increase cost-savings from the trading program relative to a command-and-control approach that required equivalent reduction levels. First, the program also gives sources the ability to "bank" unused current allowances to use for compliance in future years. Banking provides sources with additional flexibility by allowing them the opportunity to minimize their compliance costs over the length of the program. Second, CAIR provides a compliance supplement pool of 200,000 allowances during the first year of the NOx trading program that could be used to help alleviate the compliance burden on small entities facing hardship. Finally, the monitoring provisions also include a number of non-CEM monitoring options for gas and

oil-fired units.

Pros:

- The approach does not require additional mechanisms that could complicate implementation and compliance. This approach is consistent with the final CAIR.
- This approach contains a number of flexibilities that apply to all sources.

Cons:

• This approach does not provide additional flexibility beyond the flexibilities that all sources covered by the CAIR trading program will have, and thus does not provide specific relief to small entities, including a few that EPA projections indicate may experience significant hardships, as quantified in terms of the ratio of projected costs to projected electricity generation revenue.

### 4. APPLICABLE SMALL ENTITY DEFINITIONS

Any final rulemaking for the CAIR FIP or EPA's Response to North Carolina's Section 126 Petition could affect fossil-fuel-fired electric utility steam generating units (EGUs). Units potentially affected by a Response to the North Carolina Petition would be a subset of units potentially affected by a CAIR FIP. For the purposes of assessing the impacts of these rules on small entities, a small entity is defined as:

- A small business according to the Small Business Administration (SBA) size standards as codified at 13 CFR 121.201. The SBA defines small businesses by category of business using the North American Industry Classification System (NAICS). For EGUs (NAICS code 221112), the SBA has defined a small business as a firm, including its affiliates, that is primarily engaged in the generation, transmission, and/or distribution of electric energy for sale and its total electric output for the preceding fiscal year did not exceed 4 million megawatt-hours.
- A small government jurisdiction that is a government of a city, county, town, district, or special district with a population of less than 50,000.
- A small organization that is any not for profit enterprise that is independently owned and operated and is not dominant in its field.

EPA intends to propose exempting small entities with a nameplate capacity less than 25 MW. EPA intends the proposed rules to apply only to units that generate electricity for sale.

# 5. SMALL ENTITIES THAT COULD BE SUBJECT TO THE REGULATIONS UNDER CONSIDERATION

Preliminary estimates show that there are approximately 3,000 electricity generating units (owned by industry, federal government, state/local/tribal government, or non-governmental organizations) in the states subject to emissions reduction requirements under CAIR. Approximately 140 of these EGUs are owned by the 58 potentially affected small entities identified in EPA's analysis. Of the 140, 49 units are owned by small entities that also share ownership with large entities. Of these units, 34 are believed to be more than 50% owned by a large entity. An additional 189 units owned by small entities in these states could be exempted because they have a nameplate capacity less than 25 MW. The above estimates include a number of units that are owned jointly by small and non-small entities, and how these entities will be addressed by these rules is under consideration. In addition, these estimates represent the maximum number of units potentially affected by the CAIR FIP. Only units in states that fail to submit an approved SIP would be directly regulated under the CAIR FIP. The actual number of affected units will depend on the number of states that do not submit a SIP or do not get their SIP submittal approved.

In EPA's analysis of the impacts of the CAIR rule on small entity sources, EPA has estimated a NOx emissions budget of 130,000 tons in 2010 and 108,000 tons in 2015 for the 140 small entity units. This represents approximately 9% of the total NOx EGU budget under CAIR. However, these allocations reflect the example allocation approach provided in the model trading rule under CAIR, and actual allocations under either CAIR or the CAIR FIP/Section 126 Response could vary.

Based on title IV allocations to the small entity sources considered in EPA's analysis, these units would have approximately 712,000 title IV allowances available for 2010 and beyond. These allowances would be worth approximately 356,000 tons of SO<sub>2</sub> annually during the first phase of CAIR (2010-2014) and 249,000 tons of SO<sub>2</sub> annually for 2015 and beyond, or about 10% of the CAIR SO<sub>2</sub> cap.

### 6. SUMMARY OF SMALL ENTITY OUTREACH

### 6.1 EPA's Small Entity Stakeholder Outreach

Prior to convening the panel, EPA had several discussions and a conference call with small entities that could be affected by these rules. In March, in consultation with the Chief Counsel for Advocacy of the Small Business Administration, EPA had discussions with numerous municipal utilities and electric cooperatives to identify potential Small Entity Representatives (SERs). EPA invited 15 small utilities and cooperatives and one electric generation trade association to serve as potential SERs. On March 21, 2005, EPA mailed a package of background materials about the rulemakings to the potential SERs, and supplemented that package on March 28 with additional technical information, such as costs for various

options.

### 6.2 EPA's Conference Call with Potential Small Entity Representatives

EPA, in consultation with the Chief Counsel for Advocacy of the Small Business Administration, invited potential Small Entity Representatives (SERs) to participate in a conference call on the planned CAIR FIP and Section 126 proposed rules and the SBREFA process. On April 4, EPA held a conference call with the potential SERs and invited representatives from the Office of Advocacy of the Small Business Administration and the Office of Information and Regulatory Affairs within the Office of Management and Budget to the call. EPA presented an overview of the SBREFA process, an explanation of the planned CAIR FIP and Section 126 rulemakings, and technical background on such information as control options and costs.

### 6.3 Panel's Outreach Meeting with Small Entity Representatives

On May 5, 2005, the Panel invited the SERs to an outreach meeting and provided the SERs with additional background information for their consideration. These materials included the previously provided background on the potential rules and pollutants of interest, as well as relevant states and further technical and economic information about affected entities. The outreach meeting occurred on May 24, 2005, followed by written comments from some of the SERs. A summary of SER comments is in Section 8 of this report. A list of all materials shared with the SERs is contained in Appendix A of this report. All of the SER's written comments received by the Panel are contained in Appendix B of this document.

# 7. SMALL ENTITY REPRESENTATIVES

The following lists the SERs invited to advise the SBAR panel on the planned CAIR FIP and Section 126 proposals.

American Municipal Power of	Corn Belt Power Cooperative	Henderson Municipal Power	
Ohio, Inc.	Michael Thatcher	and Light	
Randy Meyer	Humboldt. IA	Wayne Thompson	
Columbus, OH		Henderson, KY	
	Geneseo Municipal Electric		
Austin Utilities	Utility	Kissimmee Utility Authority	
Patrick Lunn	Tim Long	Kenneth Davis	
Austin, MN	Geneseo. IL	Kissimmee, FL	
Central Iowa Power	Harlan Utilities	Orrville Electric Utility	
Cooperative	Tom Gaffigan	Jeff Brediger	
Greg Gerdes and Rex Butler	Harlan, IA	Orrville, OH	
Cedar Rapids, IA			

Reedy Creek Improvement	San Miguel Electric	Waverley Light and Power	
District	Cooperative, Inc.	Glenn Cannon	
Robert Kindle	Joe Eutizi Waverly, IA		
Lake Buena Vista, FL	Jourdanton, TX		
Richmond Power and Light	Southern Illinois Power		
David Osburn	Cooperative		
Richmond, IN	Leonard HopkinsMarion IL		
Ruston, City of	Tipton Electric Utility		
Dan Hollingsworth	John Packwood		
Ruston, LA	Tipton, IA		

#### 8. SUMMARY OF COMMENTS FROM SMALL ENTITY REPRESENTATIVES

#### 8.1 Number and Types of Entities Affected

A number of SERs noted that there are a number of economic disadvantages faced by small EGUs relative to large EGUs. These SERs noted that small EGUs do not have the ability to spread their cost of compliance over many units within the company. The SERs argue that smaller EGUs will therefore bear a larger economic burden relative to large EGUs.

A few SERs suggested that the integrated planning model (IPM) is not a good predictor of costs or compliance decisions for small entities, because of its reliance on average costs. These SERs note that small entities incur a greater cost for the installation of emissions controls relative to large entities. Further, while IPM may predict that a small entity will shut down a plant, the plant may in fact have to remain open for non-economic reasons such as reliability, emergencies, system stability, etc. The SERs further argue that because of the high costs of emissions controls, small entities will likely run these plants less and buy more electricity from other sources, at higher prices. The SERs also note that any plant shutdowns will cause job losses.

A few SERs noted that small entity EGUs also have to deal with premium charges by installers of control technologies, competition from large EGUs for scarce engineering resources and relatively higher costs of retrofitting due to the economy of size at larger plants. Further, in the case of cooperatives, obtaining financing from the Department of Agriculture Rural Utility Service Guaranteed Loan Program can delay the cooperative's completion of control technology installation.

A few SERs suggested that the most significant cost advantage to a large electric generating company with many units is the ability to spread control costs over many units. These companies can install controls at units where it is cost-effective, and then shift allowances around to cover emissions at all units. Additionally, some SERs representing cooperatives,

indicated that their customers would experience a greater impact on rates under these rules than customers of larger utility companies, particularly because these cooperatives might need to purchase electricity from the grid to meet customer demand.

One cooperative that has minority ownership interests in three large joint-owned plants and one small plant that it owns entirely suggested that as a minority owner, they will not be in a position to dictate control decisions. Additionally, the one plant that the cooperative does own has only one small unit, and thus will not be likely to install controls. This SER suggested that the coop would be subject to allowance market exposure, but with less ability to mitigate risk than larger electric generating companies. Another SER indicated that the small municipality he represented is a minority owner in a plant that would be installing scrubbers and a baghouse over the next few years in order to avoid purchasing allowances. The SER commented that its city and others are currently paying for this investment and that these costs will be passed on to customers.

One SER said that many gas turbines that are peaking units are relatively low-emitters, are already covered by the NOx Budget Trading Program, and mostly operate during the ozone season, and that therefore there is little to be gained by regulating them further.

A number of SERs expressed the importance of the exemption for units serving a generator less than or equal to 25 MW.

Finally, throughout the panel process, a number of SERs alerted EPA to data errors pertaining to unit identification, specifications, and ownership. Data corrections were made to EPA analysis for any descriptive unit data for which EPA received comments.

8.2 Potential Reporting, Record Keeping, and Compliance Requirements

One SER provided comments during the panel process that noted that the numerous existing emission reduction and reporting requirements are particularly burdensome for small entities. The SER noted that for small entities, efforts for mitigation under different requirements are usually the same, but that they have the burden of additional reporting. The commenter expressed concern that small entities will spend more on reporting than on complying. The commenter suggested that it would also be helpful to have existing and future emissions reductions programs and efforts qualify for all, rather than some, Clean Air Act requirements.

8.3 Related Federal Rules

One commenter noted that their unit is currently disadvantaged by an  $SO_2$  allowance allocation under title IV that no longer represents the actual operation of the unit.

8.4 Regulatory Flexibility Alternatives

Option 1 was viewed as a promising alternative for two SERs with low-emitting units. One SER suggested an exemption limit on the order of 100 tons of NOx annually, with additional qualifications based on fuel use and output. Another SER said that the  $SO_2$  limit could be set at about 25 tons to exempt small gas turbines burning piped natural gas (PNG). Because these units emit more NOx, and also must increase generation under extreme circumstances, the NOx limit should be set at a higher level, such as 100 tons, or compliance should be determined using a five-year rolling average.

Some SERs indicated that Option 1 would not help their units at all, since they would not qualify for a low-emitter exemption and will either be purchasing allowances or installing controls. One SER suggested that this option should not be evaluated any further.

A few SERs indicated that Option 2 could be helpful to small entities to the extent that it provides a way to evaluate how much to spend on controls vs. allowances. One SER, while indicating that the option is of limited value, suggested that if it were to be pursued further, that the safety valve price should be not more than 10% greater than the projected allowance price if coming from a set-aside, and if coming from a unit's own future allowances, the safety valve price should be 10% of the projected allowance price. Additionally, the SER recommended that all small entities be eligible to purchase allowances in this manner.

A number of SERs provided support for Option 3. Generally, these SERs commented that Option 3 would provide the greatest degree of economic relief to small entities. Most of these SERs suggested that EPA use the maximum values for NOx allowance adjustment or  $SO_2$  retirement ratio adjusted that were provided in EPA analysis. One SER suggested that for minority owners to benefit from this option, allowances should be allocated to small entity owners of joint-owned units. Another SER noted that Option 3 would help small entities at least partially recover investments in control technology and reduce the financial burden on their customers. One SER suggested that this option be provided to small entities with no proof of hardship required. Another SER commented that this option would help small entities deal with the increased risk associated with a small fleet and limited access to the grid, and help offset some of the costs of CAIR to these entities.

Two commenters suggested regulatory flexibility alternatives that had not been discussed by the panel. One was to leave small entities out of CAIR altogether, and pursue additional reductions from larger entities. The second was to extend CAIR implementation dates for small entities by two years for both phases of CAIR.

### 9. PANEL FINDINGS AND RECOMMENDATIONS

### 9.1 Number and Types of Entities Affected

The Panel appreciates that different types of small entity sources may face different challenges in achieving compliance. One of the benefits of a cap and trade program for small

entity sources is that rather than install controls, a source can choose to purchase allowances from other sources for less than it would cost to install controls.

Several SERs commented on the affect of CAIR on the electricity prices paid by ratepayers, as a result of their sources having to purchase electricity. However, these commenters did not provide any supporting data or analysis. Given that wholesale electricity markets are expected to become increasingly competitive, the Panel would not anticipate that, in general, customers of the cooperatives represented by these SERs would face unusually high rates relative to other customers in the same region. Under CAIR, EPA projected retail electricity prices in CAIR region would increase an average of about 2% relative to the Base Case.

The Panel does not recommend exempting small gas turbines from the program, as was suggested by one SER. The Panel believes that the reduced monitoring requirements for this set of sources under CAIR will provide a significant level of relief to these sources, which are low emitters of both NOx and SO<sub>2</sub>. According to EPA analysis, most of these sources are projected to be net sellers of allowances, and the maximum impact projected for any one of these sources in terms of the ratio of costs to electricity generation revenues is approximately 3%. Additionally, CAIR does exempt a number of small gas turbines as a result of the 25 MW and below exemption.

The Panel supports retaining in the CAIR FIP/126 rulemakings the 25 MW and below exemption that was included in the CAIR rule. In the final CAIR, EPA stated its belief that it is reasonable to assume no further control of air emissions from these smaller EGUs. Available air emissions data indicate that the collective emissions from small EGUs with capacity less than or equal to 25 MW are relatively small and that further regulating their emissions would be burdensome, to both the regulated community and regulators, given the relatively large number of units.

### 9.2 Potential Reporting, Record Keeping, and Compliance Requirements

One SER noted that EPA should coordinate emissions monitoring reporting among this and other related rules as much as possible. EPA has developed emission monitoring and reporting provisions intended to do just that. Sources will submit one quarterly report that will account for emissions under any of the following programs that they are subject to: Title IV SO<sub>2</sub> and/or NOx, CAIR FIP SO<sub>2</sub>, annual NOx and/or ozone season NOx. Finally, as part of the FIP development process, EPA plans to coordinate the FIP and SIP requirements as much as possible to minimize any conflicts in requirements that could occur if a State submitted a SIP that was approved by EPA and replaced the FIP trading rule.

# 9.3 Related Federal Rules

EPA's decision to use the existing  $SO_2$  allocation from the Acid Rain Program is explained in greater detail in the preamble to the final CAIR (70 FR 25299).

### 9.4 Regulatory Flexibility Alternatives

The Panel has undertaken detailed review of the regulatory flexibility alternatives described in this document, and the comments and discussion provided by the SERs during the Panel process. Consensus was not reached as to the final recommendation of the Panel. Two Panel members recommended that EPA pursue Option 4 as the means of providing flexibility to small entities under the CAIR FIP/126. In general, this recommendation was made based on the ability of the existing CAIR rule to provide a number of flexibilities to small entity sources, as well as consideration of the possible trade-offs in terms of administrative ease and the ability to effectively target sources that would need relief. One Panel member recommended Option 3 as the means of providing additional flexibility to small entities that can demonstrate significant hardship as a result of these rulemakings.

Regarding Option 1, the panel generally agreed that this Option would not provide a mechanism for providing relief to many small entity sources. Additionally, EPA noted that in addition to the implementation concerns with this option, it was made available under the NOx SIP call, and was used very sparsely, due to the operational flexibility a source must sacrifice in order to meet the permit requirements. Further, states were reluctant to implement this option due to a desire to retire as few allowances as possible under this mechanism so that they would have more allowances to distribute to sources in the trading program. The majority of SERs did not express support for this option. The Panel did not recommend that EPA incorporate this option in the CAIR FIP/126 rules.

As was discussed in Section 3, Option 2 could be implemented using either a safety valve price for small entity sources that falls below the projected allowance prices, or above projected allowance prices. One Panel member suggested that if safety valve allowances were made available to small entity sources at a below market price, economics would dictate that all small entity sources would attempt to purchase safety valve allowances, and could limit the extent to which this Option provides targeted or substantial relief to small entities. Generally, Option 2 with a price set higher than predicted allowance prices was seen not as a provision for relief but rather as a way to provide certainty. Given the implementation issues discussed in Section 3, and the uncertainty about what type of relief this option might provide, the Panel did not recommend that EPA incorporate this option in the CAIR FIP/126 rules.

As noted at the beginning of this section, one Panel member recommended Option 3 with a demonstration of hardship as the Option that EPA should pursue further in developing the CAIR FIP/126 rules. The SERs were also most supportive of Option 3 to provide the necessary relief, though generally without indicating a preference for implementation either with or without a demonstration of hardship. One SER recommended that there be no hardship requirement. The views of the one Panel member regarding Option 3 with hardship demonstration are set forth below.

EPA estimates that there will be five small entity units that will face severe hardship in 2015 (in which EPA expects a higher burden than 2010). The Agency projects that these

entities will experience costs in excess of 5% of sales, ranging between 6% and 43%.<sup>1</sup> Given that the allocations needed to reduce these hardships to zero cost (worst case estimate - EPA is expected only to reduce the costs to a reasonable burden) require only an allocation in the NOx budget of approximately 2-7% of a given state's budget in 2015, to this Panel member, it does not appear difficult to set aside approximately 15,000 tons of NOx each year for these hardships. EPA would have to implement this process by establishing a set-aside of NOx allowances from the relevant state's budget. If this were not feasible, EPA would still retain the option of not providing the full relief.

Further, for reasons stated above, EPA the size of the NOx allowance set aside could be less than 15,000 tons. However, because any small entity could apply for these allowances, it is possible that the demand for these allowances could be greater than anticipated. EPA would not be expected to provide relief to a unit whose ratepayers face new additional costs, but benefit from below-market electricity rates that are underwritten by other government subsidies. Moreover, the complexity of addressing  $SO_2$  is removed because those facilities that receive NOx allocations, but require  $SO_2$  allocations, could sell the NOx allocations, and purchase  $SO_2$  allocations with those funds.

This Panel member believes that the administrative burden on the facilities and EPA could be limited if EPA (1) set a specific hardship criterion in the rule (such as expected costs/revenue), (2) required the facility to report the needed allocations and the costs of potential retrofits (using engineering studies) and (3) relied solely on the NOx market for allocations. This Panel member believes that the investment in the administrative process is warranted by the projected severe negative impact on a relatively small number of facilities. While the Panel is legitimately concerned about burden on EPA and the potentially high demand for these NOx allocations in a given state, this Panel member suggests that it is better to retain the flexibility to provide additional relief in the rule, and then determine whether it is feasible to grant relief, rather than discover later that relief could have been given, but the agency did not allow itself sufficient flexibility to do so. Modifying Option 3 to targeting units with hardships is the most efficient way to provide relief to those who require relief relative to the other regulatory flexibility alternatives considered.

All Panel members agree that for the great majority of affected small entities, the current CAIR cap and trade approach, or Option 4, provides the appropriate mechanism for limiting economic burdens, by allowing the purchase and sale of allowances in the market by all units. In the view of one Panel member, the Option 3 hardship approach best accommodates the needs of small entities with severe hardships and the burden of administering this added program element, while preserving the identical benefits of the CAIR program.

Two Panel members recommend Option 4 as the preferred regulatory flexibility alternative. These Panel members believe that numerous provisions in the CAIR trading

<sup>&</sup>lt;sup>1</sup> This analysis excludes 11 units that are projected to shut down under CAIR.

programs provide flexibilities that will lower compliance costs for all sources, relative to a command and control approach. The trading program allows sources for which it is prohibitively expensive to install controls to purchase allowances from another source at a cost that is less than what it would cost to install controls. Banking provides additional flexibility by allowing sources the opportunity to minimize compliance costs over the length of the program. Further, CAIR provides a compliance supplement pool of allowances during the first year of the NOx trading program that could be used to help alleviate the compliance burden on small entities facing hardship.

These two Panel members did not recommend implementation of Option 3 for several reasons. First, implementation of Option 3 as discussed could require that up to 7% of a given State NOx allowance budget be set aside for one (or a small number of) sources. In a State with limited NOx allowances and a large number of sources, this Option could have significant impacts on other sources in the State by limiting their NOx allocations relative to what they would have been. Second, EPA would not be able to guarantee that any relief provided to small entities would actually be transferred to ratepayers. This is due to variability among entities in how costs or savings are distributed throughout the entity and its consumers, which results from factors such as variations in regulatory structure, entity ownership structure, and the nature of regional wholesale electricity markets. Finally, these two Panel members expect that, while Option 3 could provide targeted relief, implementing this option would pose a number of administrative challenges. The most significant of these would be the development of a process that would occur far enough ahead of the actual compliance year to provide affected sources with certainty as they undertake compliance planning, and still allow sources to provide EPA with meaningful information. EPA would need time to review applications and make determinations, as well as determine allocation of allowances, far enough in advance to provide sufficient certainty for sources, and also provide enough time for EPA to update source allowance accounts.

These two Panel members emphasized a number of additional points in the context of this recommendation for Option 4. First, both Panel members recognize that installation of control technology may be relatively more expensive at smaller units. However, EPA analysis indicates that not all of the small entity-owned sources are small units. Of the 140 potentially affected small entity-owned units, 31 are coal-fired units less than 100 MW and 38 are coal-fired units greater than 300 MW in size. Second, the CAIR monitoring provisions also include a number of non-CEM monitoring options for gas and oil-fired units, which make up about 40% of the units owned by small entities that could be affected by these rules. Third, the CAIR model trading rule is less complex than previous trading programs and does not include provisions such as progressive flow control that were more burdensome for small sources. Progressive flow control was included in the NOx SIP call and requires that there be discounted compliance value to banked NOx allowances if the region-wide surplus of banked allowances exceeds 10% of that year's total allocation. This provision is believed to disproportionately limit flexibility to small entities. Finally, by phasing in the emission reduction requirements under CAIR, EPA has provided more time for small entities to obtain necessary financing for emission controls.

# Appendix A

# List of materials SBAR Panel Shared With SERs During Panel Outreach

- 1. Outreach Document for Small Entity Representatives Clean Air Interstate Rule Federal Implementation Plan (CAIR FIP) and Section 126 Regulations (May 5, 2005)
- 2. Small Entity Analysis Excel Spreadsheet (May 5, 2005)
- 3. Small Entity Analysis Excel Spreadsheet Description (May 5, 2005)
- 4. Updated Small Entity Analysis Excel Spreadsheet (May 31, 2005)

# Appendix B

Written Comments the SBAR Panel Received from SERs

June 1, 2005

Jennifer Vernon 1200 Pennsylvania Avenue, NW MC 1803A Washington, DC 20460 Phone: (202) 564-6573; fax: (202) 564-0965 e-mail: vernon.jennifer@epa.gov

re: CAIR Rules & Their Effects on Small Business Entities

Dear Ms. Vernon:

EPA has analyzed the economic impacts of CAIR as well as emissions reductions under CAIR, using the Integrated Planning Model (IPM), a dynamic, linear-programming model that can be used to examine air pollution control policies for SO<sub>2</sub> and NOx throughout the U.S. EPA examined the potential economic impacts of CAIR on small entities using unit-level output from IPM, and projected the impacts of CAIR on small entities, concluding that the most significant components of incremental cost to small entities under CAIR are retrofit, operating cost and allowance purchases.

As stated in its *Outreach Document for Small Entity Representatives*, dated May 5, 2005 (the Outreach Document), EPA will propose in the FIP to exempt EGUs that generate 25 MW of electricity or less from CAIR. Use of any other regulatory alternatives would have to ensure that the overall emissions cap finalized under CAIR is met, i.e., if small entity compliance flexibility results in greater emissions from those entities, then emissions reductions of the same quantity will need to be obtained from other sources. EPA is considering the following four regulatory alternatives at this time:

- An alternative compliance method for small entity units with low emissions. EPA studied three variations of this option for both SO<sub>2</sub> and NOx that included exemption cutoffs of 25 tons, 50 tons, and 75 tons for NOx, and 50 tons, 100 tons, and 200 tons for SO<sub>2</sub>.
- 2. An option for small entities to buy allowances from EPA at a fixed price.

3. Provide sources owned by small entities with a greater share of allowances.

4. Utilize the existing flexibilities within the trading rule, i.e., no specific, additional relief for small entities.

Unlike larger EGUs, small entities do not have the ability to spread their costs of emissions control over many units, choosing to install such controls on some units but not others, through "internal trading" within the company. Many of these smaller EGUs have only recently completed upgrades, retrofits, and re-power construction in order to meet the last round of environmental rulemaking. Again, without having additional units or locations over which to spread their costs, smaller EGUs will bear an unusually larger amount of economic burden in order to produce their power.

Also, the IPM is not a good predictor of what small entities would do in certain economic situations because the IPM uses average costs, and the costs incurred by small entities in regard to the installation of emissions controls is greater than that for larger entities. While the IPM may predict that a small entity will shut down a plant, the small rural entity may still have to keep such a plant running for non-economic reasons such as reliability, emergencies, system stability, etc. Instead, because of the high costs of emissions controls, the small rural entity may have to run such a plant less and buy more power from other sources. Such power from other sources will include the costs of controls, so small entities will be hit with a "double jeopardy" of costs.

Different from the larger EGUs, small entities have to contend with retrofit problems, premium charges by installers, and competition with larger EGUs for scarce engineering resources. Additionally, the time needed by cooperatives to obtain financing from the Department of Agriculture Rural Utility Services (RUS) Guaranteed Loan Program and complete construction will delay the cooperatives' ability to complete installation of controls and further add to costs.

Because of their size, as explained above, small entities with affected units have a relatively higher proportion of their generation saddled with compliance costs than larger utilities, and thus their costs represent a higher rate increase to their rate payers who are, therefore, more disadvantaged than the customers of large EGUs.

Any plant shutdowns will also cause job losses in the local community and, unlike larger communities; rural areas do not have an abundance of jobs. Cooperatives have a disproportionate share of their plants using coal-fired generation in relation to the whole country and, therefore, CAIR will impact them more heavily.

Therefore, in order to level the playing field between large EGUs and small EGUs, EPA has suggested the four regulatory alternatives listed above. Options 1, 2 and 4 are not helpful to small entities except that Option 2 would provide a method to evaluate how much to spend on controls v. allowances. Option 3 is preferred because it does provide some economic relief for small entities

covered by CAIR. We prefer the options for SO2 and NOx, below, because they would provide the greatest degree of relief. We favor the EPA-evaluated reduction for small entities of the required  $SO_2$  allowance retirement ratio to 1.7:1 in 2010 (as opposed to 2:1 under CAIR), and 2.25:1 in 2015 (as opposed to 2.86:1 under CAIR) in the Outreach Document. We favor increased small entity unit NOx allocations by 20% as assessed by EPA in the Outreach Document.

Thank you for the opportunity to express our opinion on this new rulemaking by EPA. We hope that due consideration will be given to our opinions expressed in this letter. Should you have questions regarding the ideas expressed above, please give me a call.

Respectfully,

Leonard F. Hopkins, P.E. Environmental Superintendent June 2, 2005

Alexander Cristofaro (in care of Jennifer Vernon) 1200 Pennsylvania Avenue, NW MC 1803A Washington, DC 20460

Dear Mr. Crisofaro,

As a representative of a small entity, Corn Belt Power Cooperative, I have the following comments concerning the Clean Air Interstate Rule Federal Implementation Plan (CAIR/FIP) and specifically the options discussed during the 5/25/05 conference call.

Corn Belt Power Cooperative is a relatively small generation and transmission cooperative that serves member distribution cooperatives in rural Iowa. We believe our customers will experience a greater impact on rates due to these environmental regulations than customers of larger utility companies.

Corn Belt Power Cooperative has minority ownership interests in three large joint-owned coal units along with a wholly owned small coal-fired plant. Large electric generating companies can add controls to the most cost effective units and bank allowances for their other units. As a minority owner in the joint-owned coal units, Corn Belt Power is not in a position to dictate when and which unit will install emission control equipment. Corn Belt Power's only wholly owned coal-fired plant ('Earl F. Wisdom') is a relatively small unit and is not a good candidate for the expensive emission control technologies. The new regulations will cause Corn Belt Power to have an increased exposure to the emission allowance market without the same risk mitigation methods available to the large electric generating companies.

Corn Belt Power Cooperative has reviewed the four options presented in the Outreach Document and has concluded that Option 3 has the most potential for small entity relief. We favor the EPA-evaluated reduction for small entities of the required SO2 allowance retirement ratio to 1.7:1 in 2010 (as opposed to 2:1 under CAIR), and 2.25:1 in 2015 (as opposed to 2.86:1 under CAIR) in the Outreach Document. Likewise we favor the increased small entity unit NOx allocations by 25% as assessed by the EPA in the Small Entity Analysis Spreadsheet. For Corn Belt Power Cooperative to realize any real benefit for Option 3 we ask that the allowances allocated to the small entity ownership of the Joint-Owned units remain included.

Sincerely,

Michael Thatcher Vice President of Generation - Corn Belt Power Cooperative 1300 13<sup>th</sup> Street North Humboldt, IA 50548-0508



lowapack <pack1@netins.net> 06/02/2005 01:21 PM To Jennifer Vernon/DC/USEPA/US@EPA

cc Glenn Cannon <glenn@wlpnet.net>, Tom Gaffigan <GaffiganT@harlannet.com>

bcc

Subject RE: CAIR FIP/126 SBAR Panels: Updated Excel Spreadsheet

History: A This message has been replied to and forwarded.

Hi Jennifer,

I read Meghan's response regarding an Iowa model. It seems there's nothing to consider in that respect.

The Iowa Cities of Waverly, Harlan, and Tipton (SER's) as well as Eldridge, and The City of Geneseo, IL, are all minority owners of the Louisa Generating Station operated by MidAmerican Company (88% primary owner.) MEC has optioned to install scrubbers and a bag house in the 2005-07 time frame to avoid the substantial cost of SO2 and NOx allowances in the future. This is requiring an investment of at least \$3 million from the above small cities, an expense that will be passed on to customers now.

Thus, it becomes obvious that options 1 and 2 are of no value to small entities positioned as we are. We're going to pay the piper right up front over the next 30 months. The discussion of option 3 sounded to me as though it could end up being possible for small entities to receive "extra" allowances which could be used or sold as a commodity to reduce the future financial burden. If this is correct, it would seem that under this plan, cities like us could at least partially recover our current investment and thus effect a reduction in the financial burden to our customers in the future. Do I understand this correctly, and if so is this truly an option for us?

John C. Packwood Electric Superintendent Tipton Municipal Utilities Office: 563-886-6187 FAX: 563-886-2759 Cell: 319-480-3678 Email: packl@netins.net

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No virus found in this outgoing message. Checked by AVG Anti-Virus. Version: 7.0.322 / Virus Database: 267.4.1 - Release Date: 6/2/2005



cc Subject Fw: SER Comments on the CAIR FIP

Another comment. Did you get the one I faxed, also?

----- Forwarded by Melissa Mccullough/RTP/USEPA/US on 04/20/2005 09:36 AM -----



"Kindle, Bob" <Bob.Kindle@disney.com> 04/19/2005 12:59 PM

To Melissa Mccullough/RTP/USEPA/US@EPA

cc "Rodriguez, Armando" <Armando.Rodriguez@disney.com>, "Schmudde, Lee" <Lee.Schmudde@disney.com>, "Tucker, Steve" <Steve.Tucker@disney.com> Subject SER Comments on the CAIR FIP

Ms. Meghan Mc Guinness

United States Environmental Protection Agency

Office of Air Quality Planning and Standards

Research Triangle Park, NC 27711

Dear Ms. Mc Guinness,

Thank you for the opportunity to offer comments on EPA's proposed Federal Implementation Plan (FIP) of the Clean Air Interstate Rule (CAIR) as a small entity representative (SERs).

As a SER we are in favor of the proposed 100 ton of NOx per year exemption or some similar exemption for cleaner small units like an exemption for gas fired combined-cycle combustion turbines, burning less than 500 hours of Number 2 fuel oil per year and less than 75 MW of power output.

With regard to the Small Entity Analysis excel spreadsheet that was provided as part of the review package, we found several errors listed in the database. Particularly concerning were the erroneously low numbers used as projected baseline NOx tons in column X. If the baseline data NOx emissions are intended to reflect real-world actual emission then perhaps it would be more appropriate to use historical data from the Part 75 Acid Rain annual data base. In addition, if the Plant ID number is suppose to mimic the Acid Rain Program ORISPL number, our number is 7254 not 7294 as listed in the excel spreadsheet.

We agree with EPA's position that the cost per ton of NOx reduced will be disproportionately higher for the SERs than it will be for the larger units and we applaud EPA's efforts to develop a system to provide economic relief to the SERs to aid in compliance with CAIR.

On behalf of Reedy Creek Improvement District's Combined Cycle 1, ORISPL number 7254.

Thanks,

### **Bob Kindle**

**Reedy Creek Energy Services** 

Regulatory Compliance Administrator Wastewater Pretreatment Coordinator (407) 824-4184 Fax (407) 824-4169 bob.kindle@disney.com June 2, 2005

Jennifer Vernon 1200 Pennsylvania Avenue, NW MC 1803A Washington DC 20460

Dear Ms Vernon:

San Miguel Electric Cooperative, Inc (SMEC) appreciate the opportunity to represent itself and other small businesses in being a "Small Entity Representative" concerning the U.S. Environmental Protection Agency's (EPA) rulemaking for the Clean Air Interstate Rule Federal Implementation Plan (CAIR-FIP) and the section 126 Petition from North Carolina.

The principal business of SMEC is the production of electric energy in South Central Texas. Production is from a single lignite – fired power plant supplied from a lignite mine adjacent to the power plant. The lignite mine supplies fuel only for the San Miguel generating station and mines an average of 3.3 million tons of lignite per year. This lignite –fired generating unit comprises 100% of SMEC 's generating capacity, average yearly output is 3.2 million megawatt-hours.

### **General Comments**

- 1) Small Entity Generating Companies will incur more costs in complying with the implementation of CAIR than larger Electric Generating Companies (EGC). This additional cost is caused by a variety of reasons some are as follows:
  - Cost incurred to retro fit a small electric generating unit with a Flue Gas Desulfurization system (FGD) for SO<sub>2</sub> control or a Selective Catalytic Reduction system (SCR) for NOx control is higher due to economy of size.
  - Small entities have to contend with competition with larger EGC for scarce engineering, building trades personnel and materials resources over the short period for CAIR implementation.
  - Purchasing power of large EGC. As with most purchasing the more you purchase the cheaper the per unit price. Also having a common spare parts inventory for multiple units will reduce inventory costs. A single unit generating company such as SMEC does not have these cost advantages of a multiple unit EGC.

- In our opinion the most significant cost advantage that a large multiple unit EGC has over the single unit small entity is the ability to spread their cost for emissions control over many units. The large multiple unit EGC may choose to install emissions controls on some units but not others. Then through internal trading within the company – read "at no cost" – be able to have the allowance credits to meet the CAIR permit limits. A single unit generating company (SMEC) will have to install expensive emission controls to meet the CAIR limits or purchase allowance at market value – read "additional costs".
- Small entities that are cooperatives may require additional time to obtain financing from the Department of Agriculture Rural Utility Services Guaranteed Loan Program. This will delay the cooperatives ability to complete installation of controls and further add to costs.
- 3) Any plant shut downs as predicted by the IMP will cause job losses in the local community. In the case of many small rural areas there is not an abundance of jobs. All job losses hurt the local economy.

### **Regulatory Alternatives**

The following are comments on the proposed alternatives listed in the May 5, 2005 mailing:

Alternative #1 – An Alternative compliance method for units with low emissions. This alternative would be of limited help to small entities and should not be evaluated further.

### Alternative #2 – An option to buy allowance from the EPA at a fixed price.

This alternative would provide a worse case allowance purchase price. The benefit to a small entity would be, evaluating how much to spend on controls versus purchasing allowances to meet the CAIR limit. Although this alternative is of little value to the small entity if it is pursed for further evaluation:

- The safety value trigger price should not be more than 10% above the EPA projected allowance price if a set-aside can be created.
- The safety valve trigger price should be 10% the EPA projected allowance price if buying from it's own future year allowance. The actual price will be much greater since it is likely that the allowance used from the future years will need to be purchased as market value.
- All small entities should be eligible to purchase at the safety value trigger price.

# Alternative #3 – Provide sources owned by small entities with a greater share of allowance.

<u>This is the preferred alternative for continued evaluation</u>. This alternative does provide some economic relief for small entities. We believe the allocation of additional allowances should be given to all small entities (no proof of hardship required – see general comments which provide reasons why small entities will experience higher costs than large EGC). We prefer the options that provides the greatest relief:

- EPA evaluated SO<sub>2</sub> allowance retirement ratio of 1.7:1 in 2010 (as opposed to 2:1 in CAIR) and 2.25:1 in 2015 (as opposed to 2.86:1 in CAIR)
- EPA evaluated 20% additional NO<sub>x</sub> allocations

Alternative #4 – Utilize the existing flexibilities within the Trading rule.

The existing trade rules do not meet the objective of providing relief to small entities but is required by small entities to provide a competitively priced product to its customers. Even if the small entity does not compete with a large EGC the small entity customer should not have to pay a larger cost for Kilowatts than the large EGC customer.

The existing trade rule with the increased allowance allocation provided for in alternative #3 would provide additional relief to the small entities. This will assist the small entity in keeping its cost of kilowatts to the customer in line with the large EGC.

### **Additional Alternatives**

An additional alternative not discussed would be to extend the implementation dates to meet CAIR limits. Extending the implementation dates for  $SO_2$  and NOx for small entities would provide relief. Engineering, building trades personnel and materials may be more available during the time between the two CAIR phases. This could provide lower installation costs for emission controls by having construction in a non-peak demand time. It would also provide additional time to procure financing. For example a two-year slip in implementation - NOx 2011 & 2017 (vs 2009 & 2015) and  $SO_2$  2012 & 2017 (vs 2010 & 2015) would probably fit nicely in a low emission control installation period.

San Miguel Electric Cooperative appreciates the opportunity to comment on the rulemaking for the CAIR-FIP / section 126 petition. If you have any questions please contact me.

Sincerely,

Joseph G. Eutizi Engineering Manager 830.784.3411 ext. 226 jeutizi@smeci.net



#### Melissa:

I apologize for being a day late with my comments once again.

1. The small unit exemption from CAIR should be consistent with Title IV and the NOx SIP Call. Units 25 MW and below are exempt. I noticed the City of Orrville, Ohio units were removed from the latest version of the spreadsheet. However, I think the comment is worth repeating since the exemption criterion is often misinterpreted.

2. I continue to question whether the IPM model is appropriate for assessing the impacts on small entities participating in the electricity market. The IPM may be appropriate for large vertically integrated utilities, but I don't know that it is for small entities operating on their own island connected to the grid. First, IPM seems to be based on an economic dispatch model. I believe this model breaks down when a small entity only has a few units (maybe only one) and less than perfect access to other generation resources on the national grid. Retiring a plant to comply with CAIR strongly discounts a small utilities ability to compete in the future. If I no longer have a plant, other wholesale providers have no incentive to provide me with competitive power.

3. The criterion for qualifying for a low emissions unit should be averaged over a five year period to account for unusual conditions such as unplanned outages, extraordinary hot or cold weather, etc. A five year rolling annual average would damp unusual circumstances.

4. Providing small entities with a greater share of allowances helps small entities deal with the increased risk associated with a small fleet and limited access to the grid. I think this approach is more effective and equitable than relying on a simple heat input budget approach.

5. I disagree with the statement that small entities do not operate in a competitive environment and should be able to pass compliance costs on to customers. Prices are set by local governing bodies who are sensitive to price changes and how they measure up against competing forces. Moreover, large commercial and industrial customers often are in a position to easily switch electricity providers.

6. I support the low emitter exemption option. AMP-Ohio has several gas turbine facilities combusting pipeline natural gas (PNG) exclusively for peak shaving and intermediate use that would fit this category. Because these units are firing PNG, the SO2 exemption criterion can be set very low, say 25 tons. The exemption criterion for NOx should be set substantially higher. While these typically operate very little, there will be occasional times (e.g., periods of tight supply due to forced outages or high temperatures) when operating times will be much higher. This could be addressed by setting the annual NOx exemption criterion relatively high, say 100 tons, or by using a five year rolling annual average to damp unusual circumstances. Moreover, these units are already covered by the NOx Budget Trading Program and mostly operate during the ozone season, so there is little to be gained by regulating them under CAIR.

7. The two AMP-Ohio combustion turbines listed in the Excel spreadsheet should be listed under OMEGA JV2. These two turbines are owned by OMEGA JV2 and operated by AMP-Ohio. Also, there are three combustion turbines (approximately 35 MW nameplate) formerly owned by National Energy Group that are now owned and operated by AMP-Ohio. The ORIS codes for the former NEG turbines are 55262, 55263, and 55264. 8. I also support adjusting allocations or the surrender rates. I understand it would be very difficult to set a new baseline and reallocate SO2 emissions to today's universe of electric generating units. However, EPA must recognize the original baseline is about 20 years old. Much has changed in the electric industry in that time period, and our Richard H. Gorsuch Station continues to harmed by an SO2 allocation that does reflect actual operation of the plant. Making additional allowances available or reducing the surrender rate would help offset some of the costs associated with this rule. The allocation should be adjusted such that the projected CAIR impacts on the Gorsuch Station are no different than the impacts on a similarly sized large entity plant in this region.

9. Another option for addressing the impacts on small entities is to leave them out of the CAIR program. For example, the Richard H. Gorsuch Station seems to be the only Ohio small entity EGU left in the regulated universe. Its impact on the overall problem must be small. From a regulatory efficiency and simplicity standpoint, it seems to be more effective to focus the entire regulatory effort on the large entity units. Due to the economies of scale, the cheapest reductions are likely to occur at the large plants anyway.

Thanks for the opportunity to participate in this process and provide comments.

RMeyer Director of Environmental Affairs AMP-Ohio, Inc. 2600 Airport Drive Columbus, OH 43230

email: rmeyer@amp-ohio.org
phone: 614.337.6222
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"JEFF BREDIGER/EL.MGR.(2)" <brediger@orrville.com> 06/03/2005 02:07 PM

- To Jennifer Vernon/DC/USEPA/US@EPA
- cc dan Preising <preising@orrville.com>

bcc

Subject Re: CAIR FIP/126 SBAR Panels: SER Comments due c.o.b. yesterday, June 2nd.

History:

A This message has been replied to and forwarded.

The City of Orrville supports the comments submitted by R Meyer, AMP-Ohio. Thank you for addressing our units. I would also affirm the emphasis of the 25MW or less exemption. It has been a source of issue on a number of rule-makings in the past not only for Ohio but other public power communities throught the country.

Date sent: Fri, 03 Jun 2005 09:21:06 -0400 From: Vernon.Jennifer@epamail.epa.gov CAIR FIP/126 SBAR Panels: SER Comments due c.o.b. Subject: yesterday, June 2nd. To: rmeyer@amp-ohio.org, patl@austinutilities.com, greg.gerdes@cipco.net, rex.butler@cipco.net, patrick.leer@cipco.net, mike.thatcher@cbpower.coop, tlong@geneseo.il.us, gaffigant@harlannet.com, wthompson@hmpl.net, kdavis@kua.com, tbiller@kua.com, brediger@orrville.com, bob.kindle@disney.com, daveo@rp-l.com, mayor@ruston.org, jeutizi@smeci.net, lhopkins@sipower.org,

pack1@netins.net, glenn@wlpnet.net

Good Morning.

This is just a reminder all written comments were due c.o.b. yesterday, June 2nd. However, we still consider your comments if you send them to me today. After today, there is no guarantee if the Panel members will have time to consider your comments for their report.

Please let me know if you have any questions.

Thank you.

Jennifer Vernon U.S. Environmental Protection Agency Office of Policy, Economics and Innovation MC 1803A 1200 Pennsylvania Avenue, NW Washington, DC 20460 Phone: 202.564.6573 Fax: 202.564.0965 Email: vernon.jennifer@epa.gov RFA/SBREFA Website: www.epa.gov/sbrefa

(See attached file: Letter to SERs from chair.wpd)(See attached file: Letter to SERs from Chair.pdf)

(See attached file: SER Outreach May5\_05.wpd)(See attached file: SEROutreachMay5-05.pdf)

(See attached file: Small Entity Analysis\_ver2\_May31.xls)

Jeff Brediger

1100 Perry St. Orrville, Ohio 44667 voice 330-684-5101 fax 330-684-5122

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[This E-mail was scanned for viruses]

June 1, 2005

Alexander Cristofaro (in care of Jennifer Vernon) 1200 Pennsylvania Avenue MC 1803A Washington, DC 20460

Dear Mr. Cristofaro:

As a representative of Central Iowa Power Cooperative (CIPCO), I would like to comment on the proposed Clean Air Interstate Rule (CAIR). As a small, primarily ruralbased generation and transmission company, we believe the cost to comply with the proposed environmental regulations will be much higher for our ratepayers (on a per capita basis) than for the ratepayers of large companies.

Companies with large fleets of generating plants are able to choose the worst environmental performers in their fleet to install controls and shift the resulting saved allowances to other plants. Although we are minor participants in several joint-owned plants, CIPCO owns only one baseload generation plant. Due to its small size, this particular plant (Fair Station) is a poor candidate for expensive controls, but is a vital resource for system reliability and cost management.

CIPCO requests that Option 3 be made available to small entities. We favor the EPAevaluated reduction for small entities of the required SO2 allowance retirement ratio of 1.6:1 in 2010 (as opposed to 2:1 under CAIR), and 2.25:1 in 2015 (as opposed to 2.86:1 under CAIR) in the Outreach Document. We also request increased small entity unit NOx allocations by 25% as assessed by EPA in the Outreach Document, and ask that Option 3 be extended to the Small Entity-owned portions of Joint Owned Units.

Sincerely,

Richard Anderson Vice President of Utility Operations Central Iowa Power Cooperative 1400 Hwy 13 SE Cedar Rapids, IA 52403