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Rhode Island Attorney General Patrick C. Lynch  
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January 22, 2008

**VIA FACSIMILE & U.S. MAIL**

S.C. Department of Health and Environmental Control  
Attn: Joseph C. Eller  
Bureau of Air Quality  
2600 Bull Street  
Columbia, SC 29201

**Re: Pee Dee Draft Permit (Santee Cooper)**

Dear Mr. Eller:

The Attorneys General of the States of California, Connecticut, Delaware, New York, Rhode Island, and Vermont, the Commonwealth of Massachusetts, and the District of Columbia, jointly submit these comments to the South Carolina Department of Health and Environmental Control (SCDHEC) to voice concerns regarding the proposed issuance of an air quality permit to Santee Cooper for the construction of a new coal-fired power plant on the Great Pee Dee River in Florence County. As explained below, we urge SCDHEC not to issue a permit for the proposed plant unless Santee Cooper designs and sites the plant in a way that minimizes the generation of carbon dioxide (CO<sub>2</sub>) emissions and/or allows for the capture and secure sequestration of such emissions.

Climate change is the single greatest environmental challenge facing the world today. Although climate change is a global problem, effective action at the national, regional, and state level is needed to achieve the necessary reductions in CO<sub>2</sub> emissions. Scientists overwhelmingly agree that the global community must reduce emission of greenhouse gases, including CO<sub>2</sub>, to well below 1990 levels within a few decades, if we are to stabilize the climate at an acceptable level. And, according to the experts, taking action to reduce greenhouse gas emissions is needed immediately. As the chairman of the United Nations Intergovernmental Panel on Climate Change recently declared: "If there's no action before 2012, that's too late. What we do in the next two to three years will determine our future."

To that end, many states have made the reduction of CO<sub>2</sub> emissions a priority. For

example, ten northeastern states (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont) participate in the Regional Greenhouse Gas Initiative (RGGI), a mandatory cap-and-trade program to reduce CO<sub>2</sub> emissions from power plants, which collectively represent a major contributor to global warming. By 2019, the RGGI states will achieve a 10% reduction in CO<sub>2</sub> emissions, with a cumulative reduction below baseline of roughly 50 million tons. Similarly, California passed the Global Warming Solutions Act, AB 32, in 2006, which requires the state's utilities, oil refiners, cement makers, and other large industrial greenhouse gas emitters to reduce their CO<sub>2</sub> emissions to 1990 levels by 2020. California also enacted in 2006 California Public Utilities Code, section 8340 et seq., which precludes California utilities from entering contracts for electricity from high-emitting sources of CO<sub>2</sub>, both inside and outside of California. Other states are considering or have adopted similar power plant performance standards.

Arizona, Montana, New Mexico, Oregon, Utah, and Washington have joined California as members in the Western Climate Initiative. Under this agreement, member states will reduce emissions by 15% below 2005 levels by 2020. Further, as you are no doubt aware, six Midwestern states just signed the Midwestern Regional Greenhouse Gas Reduction Accord committing to a regional cap-and-trade program for CO<sub>2</sub>. Along with the states participating in RGGI and the Western Climate Initiative, this new Midwestern accord brings the number of states committed to regional trading systems to 23.

In contrast to these efforts, the proposed Pee Dee plant would substantially increase CO<sub>2</sub> emissions from South Carolina sources. As proposed, the new 1,320 MW coal-fired plant would utilize supercritical pulverized coal-burning technology, which emits massive amounts of CO<sub>2</sub>. The proposed plant is projected to emit more than 9 million tons of CO<sub>2</sub> per year, thereby seriously undermining the concerted efforts being undertaken by multiple states to address global warming. For instance, over the RGGI time frame, cumulative emissions from this plant would be more than 90 million tons CO<sub>2</sub>, more than canceling the reductions relative to the baseline resulting from RGGI. In fact, emissions from just one of the two proposed boilers would roughly cancel the RGGI reductions. With a lifetime of more than 50 years, this plant, if built as proposed, might well emit more than 450 million tons of CO<sub>2</sub> in total, thus significantly contributing to the public health and environmental damage associated with global warming.

We encourage South Carolina to explore alternatives that will satisfy its need for energy without exacerbating global warming. As an initial matter, implementation of energy conservation measures and construction of non-polluting renewable energy sources could reduce, or even obviate, the need for new coal-fired power in South Carolina. A recent report by McKinsey & Co. concluded that improved energy efficiency in buildings, appliances and industrial plants could offset about 85% of projected increase in demand for U.S. electricity in 2030, obviating the need to build 150 or so new coal plants - such as the Pee Dee plant - now on the drawing boards in response to projected demand. (McKinsey & Co., *Reducing U.S.*

*Greenhouse Gas Emissions: How Much at What Cost?*, at xv and 30; Exh.18 (Dec. 2007).) If a new power plant is still needed, we urge the state to consider fueling such plant with biomass or natural gas, or both, and to consider siting so as to allow for full-scale carbon capture and sequestration (CCS). Biomass and natural gas not only emit a fraction of the CO<sub>2</sub> compared to coal and eliminate emissions of pollutants such as mercury and other heavy metals, they also improve the efficiency of the production process, further reducing CO<sub>2</sub> emissions. Finally, we urge you to consider Integrated Gasification Combined Cycle (IGCC) technology, an established and available production process with lower emissions than pulverized coal. In general, retrofitting an IGCC plant to capture CO<sub>2</sub> emissions likely will be less expensive than retrofitting a pulverized coal plant.

Further, state and federal laws require issuance of a Prevention of Significant Deterioration (PSD) air quality permit by SCDHEC to Santee Cooper prior to construction of the Pee Dee plant. To obtain a PSD permit, Santee Cooper must demonstrate that the proposed Pee Dee project complies with the best available control technology (BACT). The BACT standard requires PSD applicants to consider other “production processes or available methods, systems, and techniques” including “innovative fuel combustion techniques” to achieve the “maximum degree of reduction for each pollutant subject to regulation” under the Clean Air Act (CAA). The BACT standard in the CAA also requires consideration of “clean fuels.” This plain language and the legislative history of the CAA make clear that Congress intended that the full range of cleaner fuels, including biomass and natural gas, and production methodologies, including coal gasification, would be considered in a BACT analysis. (*See, e.g.*, 123 Cong. Rec. 18472 (1977) (Senator Walter Huddleston of Kentucky explaining that the term “innovative fuel combustion techniques” was added to the definition of BACT to clarify that BACT was “intended to include such technologies as low BTU gasification”).) Thus, a BACT analysis for the Pee Dee project must consider biomass and natural gas, as well as IGCC technology, a form of coal gasification.

The PSD permit for the Pee Dee plant must include a BACT emission limit for CO<sub>2</sub> because CO<sub>2</sub> is a pollutant subject to regulation under the CAA. A BACT emission limit is required “for each pollutant subject to regulation under [the Act].” (42 U.S.C. § 7475(a)(4); *see also* 40 C.F.R. § 52.21(b)(50)(iv).) As the U.S. Supreme Court held in *Massachusetts v. EPA*, 127 S. Ct. 1438, 1460 (2007), CO<sub>2</sub> and other greenhouse gases are “pollutants” under the CAA. Given that the Pee Dee plant will be a major emitter of CO<sub>2</sub>, Santee Cooper must demonstrate that the proposed technology for the plant is the best available control technology for CO<sub>2</sub> emissions. A full BACT analysis would inevitably lead to the conclusion that the Pee Dee proposal includes inadequate controls on CO<sub>2</sub> emissions.

Furthermore, SCDHEC must consider the “energy, environmental, and economic impacts” of each unit as part of the BACT analysis. This analysis extends to the overall environmental impacts of the units. (*See, e.g.*, *In re North Country Resource Recovery*

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*Associates*, 2 E.A.D. 229, 230, 1986 EPA App. LEXIS 14 (Adm'r 1986.) The detrimental environmental effects of the increased CO<sub>2</sub> emissions resulting from the proposed new plant must be considered under the "environmental impacts" prong of BACT, which in turn informs the selection of control technology.

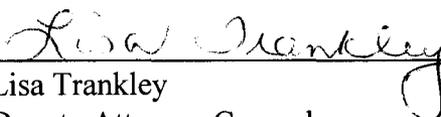
We recognize the need for additional sources of energy, but urge SCDHEC to fully consider whether efficiency improvements or non-polluting sources of electricity can meet increased demand for the next several years. If increased electricity-generating capacity beyond these options is nonetheless needed, we urge SCDHEC to work with Santee Cooper to require that the plant be constructed so as to minimize CO<sub>2</sub> emissions and sited so as to allow for CCS.

We thank you for considering our view on this important matter.

Sincerely,

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