

August 22, 1995

EPA-SAB-CASAC-LTR-95-004

Honorable Carol M. Browner  
Administrator  
U.S. Environmental Protection Agency  
401 M St., SW  
Washington, DC 20460

*Subject: CASAC Review of the Staff Paper for the Review of the  
National Ambient Air Quality Standards for Nitrogen Dioxide:  
Assessment of Scientific and Technical Information*

Dear Ms. Browner:

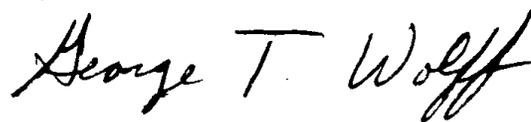
The Clean Air Scientific Advisory Committee (CASAC) of EPA's Science Advisory Board (SAB) at a meeting on December 12, 1994, reviewed the document entitled Review of the National Ambient Air Quality Standards for Nitrogen Dioxide: Assessment of Scientific and Technical Information, Office of Air Quality Planning and Standards (OAQPS) Staff Paper. At that meeting and in subsequent written comments, the Committee made a number of recommendations for improving the document. On June 2, 1995, a revised Staff Paper was mailed to the CASAC members for review with a letter response. The resulting comments by the Committee members note with satisfaction the improvements made in the scientific quality and completeness of the staff paper. It has been modified in accordance with the CASAC recommendations.

The document is consistent with all aspects of the scientific evidence presented in the criteria document for oxides of nitrogen. It has organized the relevant information in a logical fashion and the Committee believes that it provides a scientifically adequate basis for regulatory decisions on nitrogen dioxide. The staff paper concludes, and the CASAC concurs, that an annual primary standard of the present form and with a numerical value between 0.05 to 0.08 ppm would be supported by the present scientific data on chronic health effects of exposure to nitrogen dioxide. In addition, the CASAC concurs with the rationale that if the existing annual standard of 0.053 ppm is attained, it will provide adequate protection against the occurrence of short term 1-hour peak concentrations of 0.2 ppm or higher.

The staff paper also concludes and the CASAC concurs, that the present primary standard protects against the direct effects of nitrogen oxide exposure to vegetation. Further, the CASAC agrees that there is insufficient scientific evidence available to warrant a secondary standard designed to protect aquatic and terrestrial ecosystems from the adverse effects of nitrogen deposition including eutrophication and acidification. Finally, CASAC concurs with the Staff conclusion that setting an NO<sub>2</sub> secondary standard to protect against visibility impairment is not warranted.

The Committee looks forward to receiving notice of the revised or reaffirmed nitrogen dioxide standard when it is proposed.

Sincerely,

A handwritten signature in black ink that reads "George T. Wolff". The signature is written in a cursive style with a large, sweeping "G" and a long, horizontal stroke for the "T".

Dr. George T. Wolff, Chair  
Clean Air Scientific Advisory  
Committee