



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON D.C. 20460

OFFICE OF THE ADMINISTRATOR
SCIENCE ADVISORY BOARD

May 12, 2006

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

Subject: EPA National Ambient Air Quality Standards Process Review

Dear Administrator Johnson:

The Clean Air Scientific Advisory Committee (CASAC) has been asked to comment on the Agency's *Review of the Process for Setting National Ambient Air Quality Standards* (NAAQS) at a public meeting scheduled for June 29, 2006. We wanted to provide some preliminary thoughts on the proposed process to facilitate our discussion with the Agency at the public meeting.

We are in full agreement that now is the time to think "outside the box" and develop a significantly-enhanced and streamlined NAAQS review process. However, in the proposed process the basic elements of reviewing a given NAAQS remain essentially unchanged. Further, the "doubling-up" of the scientific subject matter to be covered at certain CASAC meetings (*e.g.*, reviews of the draft Science Assessment and Risk Assessment documents at the same meeting and, at a subsequent meeting, the Risk Assessment and Policy Assessment documents) may even increase the number of CASAC meetings. Particularly if these "joint" reviews are not able to be orchestrated precisely to plan. Therefore, it was not apparent to us how the suggested alterations would make the NAAQS process more efficient or streamlined. On the contrary, EPA's proposed process appears to be no less time-consuming and likely more resource-intensive than the current process. Indeed, rather than helping the Agency more-easily achieve its NAAQS reviews for the six criteria air pollutants within the statutorily-mandated five-year period (*i.e.*, per the Clean Air Act Amendments of 1977 codified at 42 U.S.C. § Sec. 7409), the proposed process would seemingly ensure that court-ordered completion dates — the result of external litigation — would continue to be the principal "driver" for key milestones in these NAAQS reviews.

CASAC understands the goal of the NAAQS review process to answer a critical scientific question, "*What evidence has been developed since the last review to indicate if the current primary and/or secondary NAAQS need to be revised or if an alternative level or form of these standards is needed to protect public health and/or public welfare?*" We would like to offer several preliminary thought that we think would help answer this question.

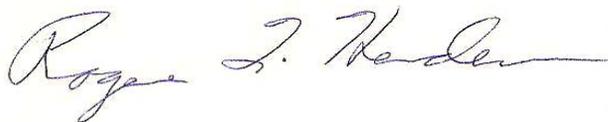
1. Eliminate the development of a *comprehensive* Air Quality Criteria Document (AQCD). In other words, produce an *even more streamlined version* of the Science Assessment document than is proposed in the NAAQS Workgroup's report. The current AQCD represents a compendium of knowledge on the pollutant and its adverse public-health and public-welfare effects that consumes much of the review-cycle time and does not focus on either the critical question stated above or on the policy-relevant issues to be addressed. Moreover, an extensive document of this type is unnecessary. The vast majority of the reported studies are not relevant to the setting of a standard, either because they have not been published since the previous NAAQS were set or because they were conducted at concentration levels so high as to be irrelevant to the consideration of a public-health- or public-welfare-based environmental standard.
2. Have the Agency's National Center for Environmental Assessment (NCEA) and the Office of Air Quality Planning and Standards (OAQPS) jointly convene a *science workshop as the first step in the five-year review of each NAAQS*. We envision this workshop to be an open forum convened by the Agency in which an invited group of expert scientists meet to discuss: recent findings regarding adverse low-level effects of the pollutant on both public health and public welfare; trends in atmospheric chemistry and pollutant distributions; sources of the pollutant or its chemical precursors; risk assessment approaches — and, importantly, provide their input to the Agency for the *development of the likely policy-relevant issues and questions* for the criteria air pollutant undergoing NAAQS review. EPA staff, CASAC members and the public would be present for this workshop, which would allow adequate time for detailed discussions on major issues focused on the critical question stated above. This would dovetail with EPA's ideas of both "streamlining the process" and linking the earlier and more clear identification of the key, policy-relevant issues to the assessment of the adequacy or inadequacy of the present primary and secondary NAAQS for criteria air pollutants.
3. Based on this workshop, and in place of the AQCD, develop a *Science Assessment document* that is *essentially equivalent to the integrative synthesis chapter of the AQCD* and also includes what is now in the Staff Paper or, as proposed, the Policy Assessment document. This Science Assessment would represent Agency staff's recommendation on the quality of current science relative to the question of adverse health and environmental effects at the existing air quality standard. The document should then defend that staff interpretation of the scientific literature through its summary of studies that directly address the critical, policy-relevant questions. As-needed, literature summaries should be placed in an appendix, with only those articles deemed to be relevant to the question of the current level, form, averaging time, and indicator for each regulated air pollutant included in the primary document.
4. The above-suggested change would naturally lead to — and require NCEA and OAQPS to work together on the development of — *a combined Science and Policy Assessment document*, to be supplemented by the Risk/Exposure Assessment document prepared by OAQPS. This combined Science and Policy Assessment document would replace the former two documents (*i.e.*, the AQCD and the Staff Paper) and would serve to focus the CASAC's and the public's review on the important initial proposals for standard-setting — *and, notably, result in a significantly-compressed timeline*. Senior-level Agency

managers could also of course provide their input at various stages in the development of this combined document, as desired.

5. As an aspect of the Agency's "continuous compilation/characterization of new studies," develop and maintain an *electronic database* that contains all publications on the criteria air pollutant undergoing evaluation. With EPA having such an electronic database (and, of course, providing the recourses necessary to keep it current), the CASAC or the public could, at any point along the timeline for the development and review of the combined Science and Policy Assessment document, identify articles and reports they believe EPA might have missed that are critical to the "bottom line" questions being addressed.
6. Finally, the Assistant Administrators' memo to the Deputy Administrator contemplated the option of releasing the Policy Assessment document as an Advanced Notice of Proposed Rulemaking (ANPR), which would then undergo CASAC (and public) review. The EPA NAAQS Process Review Workgroup's report also noted the potential for additional CASAC advice during the rulemaking phase of the NAAQS review. The relative merits of these two choices are not completely clear to us. The only reason that CASAC would want or need to comment on an ANPR — or, for that matter, on a proposed rule — is if it did not agree with the EPA's proposal, *i.e.*, CASAC's scientific recommendations were not adopted by the Agency. As witnessed by our recent response to EPA concerning its proposed rule for particulate matter, the CASAC feels comfortable with its suite of available options to provide additional advice to the Agency.

We hope that these initial thoughts are helpful, and that they will result in more fruitful discussions with EPA at our June meeting. The members of CASAC consider this NAAQS process review to be extremely important, and we look forward very much to continuing to work with you on this matter.

Sincerely,



Dr. Rogene Henderson, Chair
Clean Air Scientific Advisory Committee

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