

**Review of the National Ambient Air Quality Standards (NAAQS)  
for Particulate Matter (PM)**

**U.S. EPA Workshop to Initiate Evaluation of Key Policy-Relevant Science and Inform  
Development of Integrated PM NAAQS Review Plan**

**Carolina Inn in Chapel Hill, North Carolina  
16 July 2007**

**Background/Workshop Objective**

This workshop will inform the structure and organization of EPA's next review of the secondary (welfare-based) national ambient air quality standards (NAAQS) for particulate matter (PM). The workshop will provide an opportunity for experts to recommend important new PM research for review and will help the Agency ensure that its review encompasses and properly evaluates this research.

Workshop participants will include a wide range of external experts as well as EPA staff and will represent a variety of areas of expertise (e.g., atmospheric chemistry and modeling, climatology, ecology etc.). Participants will be encouraged to think broadly about new policy relevant science that has accumulated since the last review of the PM NAAQS and to discuss how this new science can best be used in the assessments that will serve as the foundation for the Agency's decisions in this review. The workshop discussions will provide important input as EPA considers how best to structure the major elements of the PM review under the new NAAQS process, which consists of an integrated science assessment, a risk and/or exposure assessment, and a policy assessment to be published as an advance notice of proposed rulemaking (ANPR).

Workshop discussions will draw from several prior publications:

1. *Review of the National Ambient Air Quality Standards for Particulate Matter: Policy Assessment of Scientific and Technical Information. December 2005 EPA-452/R-05-005a sections 2.8 and section 6, 7.4, 7.5.*  
[http://www.epa.gov/ttn/naqs/standards/pm/data/pmstaffpaper\\_20051221.pdf](http://www.epa.gov/ttn/naqs/standards/pm/data/pmstaffpaper_20051221.pdf)
2. *National Ambient Air Quality Standards for Particulate Matter: Final Rule (71 FR 61144, October 17, 2006).* The preamble to the final rule included detailed discussions of policy-relevant issues central to the last review.  
<http://a257.g.akamaitech.net/7/257/2422/01jan20061800/edocket.access.gpo.gov/2006/pdf/06-8477.pdf>
3. Grantz D.A., J.H.B. Garner and D.W. Johnson; *Ecological effects of particulate matter*, Environ. Int. 29 (2003). 213- 239.  
[http://dx.doi.org/10.1016/S0160-4120\(02\)00181-2](http://dx.doi.org/10.1016/S0160-4120(02)00181-2)

4. *Review of the National Ambient Air Quality Standards for Nitrogen Dioxide assessment of Scientific and Technical Information: OAQPS Staff Paper.* Primarily chapter VII, section D (Visibility).

<http://www.epa.gov/ttn/naaqs/standards/nox/data/noxsp1995.pdf>

PM NAAQS workshop participants are encouraged to review these documents and other supporting materials before the meeting because these documents provide important insights into key policy-relevant questions.

Based in large part on the guidance received during this workshop, EPA will develop a draft integrated PM NAAQS review plan that will outline the schedule, process, and approaches to evaluating the relevant scientific information and addressing the key policy-relevant issues to be considered in this review. The Clean Air Scientific Advisory Committee (CASAC) will be asked to review and comment on the Agency's draft integrated plan later this year and the public will have the opportunity to comment on it as well. The final integrated plan will be used as a framework to guide the review.

### **Proposed Meeting Structure**

Following a brief introductory session in which EPA will present a summary of the new NAAQS review process and a historical PM NAAQS overview, the meeting will proceed with three sessions (ecosystem and environmental effects, climate change, visibility), each facilitated by 2 co-chairs. The co-chairs provide background information and comments to frame the session; other panel members and interested participants will be invited to join in a structured discussion of the topic. The co-chairs will moderate the session to ensure the discussion remains focused on topics relevant to the PM review.

### **Draft Workshop Agenda**

#### **Monday 16 July 2007**

<b>8:30 – 9:00</b>	<b>Registration</b>
<b>9:00 – 9:10</b>	<b>Welcome/Purpose of Meeting Dr. Ila Cote, EPA/NCEA</b>
<b>9:10 – 9:30</b>	<b>Restructuring the NAAQS Review Process: Opportunities for Improvement Ms. Lydia Wegman, EPA/OAQPS</b>
<b>9:30 – 10:00</b>	<b>Building on the Last PM NAAQS Review: Focus on Key Policy-Relevant Issues Dr. Karen Martin, EPA/OAQPS</b>
<b>10:00 - 10:10</b>	<b>Overview of Sessions Dr. Paul Wagner, EPA/NCEA</b>

<b>10:10 – 10:30</b>	<b>Break</b>
<b>10:30 – 11:15</b>	<b>Session I: Ecosystem and environmental effects – Dr. Jamie Schauer</b>
<b>11:15 – 12:00</b>	<b>Session II: PM and Climate – Dr. Jeff Arnold and Dr. Jason West</b>
<b>12:00 – 1:30</b>	<b>Lunch</b>
<b>1:30 – 2:30</b>	<b>Session III: Visibility –Dr. Marc Pitchford and Dr. Bill Malm</b>
<b>2:30 – 2:45</b>	<b>Break</b>
<b>2:45 – 3:45</b>	<b>Session III continued: Visibility –Dr. Marc Pitchford and Dr. Bill Malm</b>
<b>3:45 – 5:00</b>	<b>A Return to the Overarching Questions and the Structure of the PM Secondary NAAQS Review Dr. Karen Martin and Dr. Mary Ross</b>