

Motivation for Assessment and Charge to Assessment Team

*2009 Executive Assembly
April 15, 2009
Washington, D.C.
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Motivation for the Assessment

The US National Research Council (2004) conclusions regarding U.S. Air Quality Management (AQM)

- Substantial progress has been made in improving air quality, especially in urban areas
- However, future progress may be hindered due to
 - An overly complex and rigid process.
 - Barriers to technological innovation.
 - The lack of a process for documenting improvements in health and ecosystem outcomes.



NRC Recommendations

AQM should strive to:

- Identify and assess the most significant exposures, risks, and uncertainties.
- Take a multipollutant approach to controlling emissions that pose the greatest risk (both criteria and HAPs).
- Characterize the relative effects of local, regional, national, and international sources and manage accordingly.
- Increase emphasis on protection of ecosystems and other aspects of public welfare.
- Create a system of accountability to assess the effectiveness of AQM actions and adjust them dynamically.



Features of This Approach

- Administrative coordination for multipollutant AQM.
- Risk-based framework for guiding decision making.
- Accountability for evaluating effectiveness.



Assessment Charge

- Assess the state of scientific capabilities for implementing MPAQM and evaluating effectiveness.
- Recommend needed improvements.
- Take into account similarities and differences in approach among the North American nations.



Assessment Chapters and Lead Authors

Assessment Chapter	Lead Author (Affiliation)
Summary for Policy Makers	William Pennell
Introduction	George Hidy
Decision-Making Framework for MPAQM	George Hidy
Risk-Based Assessment and Management	Chris Frey & Brian Hubbell
Health Assessment Aspects of MPAQM	Joe Mauderly & Ron Wyzga
Ecosystems Aspects of MPAQM	Tom Clair & Doug Burns
Atmospheric Science Aspects of Exposure Characterization	Ken Demerjian
Source Emissions and MPAQM	Andy Miller
Atmospheric Modeling	Christian Seigneur and Robin Dennis
Air Quality Measurements	Rich Scheffe
Global Change and Air Quality	Daniel Jacob, Denise Mauzerall and William Pennell
Case Studies of Multipollutant Experience	George Hidy
Next Steps for Achieving MPAQM in an Accountability Framework	George Hidy
Conclusions and Recommendations	George Hidy

