Accountability Assessment
Update

2007 Executive Assembly
March 27, 2007
Crystal City, VA
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Overview

- Assessment Scope and Process
- Implementation to Date
- Lead Authors
- Next Steps and Schedule
Scope and Process

• Assess the technical challenges of implementing “accountability” within a multi-pollutant framework (5-10 year time horizon)

• What is accountability?
  – A process for evaluating the effectiveness of an AQ management action or actions
  – A process for implementing continuing quality assurance in AQ management

• The accountability chain
  – Was the action implemented?
  – Did expected emission reductions occur?
  – Did expected concentration reductions occur?
  – Was exposure reduced?
  – Were expected health and ecosystem benefits achieved?
Planned Tasks

1. Establish a conceptual risk-based framework for AQ management that includes accountability
2. Establish health- and exposure-related accountability needs
3. Identify ecosystem-related accountability needs
4. Identify data requirements, tools, and procedures for meeting these needs
5. Produce assessment synthesis
Where We Are

• Kick-off mini-workshop held at API Oct 4-5
• Lead authors workshop: RTP, NC Jan 9-10
• Conceptual model for implementation developed
• Health effects workshop: April 3-4 in Ottawa
• Ecosystem workshop: April 12-13 in Burlington, VT
Lead Authors

- **Health Sciences** - Joe Mauderly, Ron Wyzga, Mary Ross
- **Ecosystems** - Doug Burns, Tom Clair, Pam Padgett
- **Risk Analysis** - Bryan Hubbell, Chris Frey
- **Emissions** - Andy Miller
- **Integrated Modeling Systems** - Robin Dennis, Christian Seigneur
- **Measurements & Experimental Design** - Rich Scheffe, Jeff Brook, Ken Demerjian, George Hidy
- **Climate Effects** - Bill Pennell, Daniel Jacob
- **Synthesis** - Rich Scheffe, Jeff Brook, Ken Demerjian, George Hidy
Model for Implementing MP Accountability

- **Level 1**: Single pollutant focus but with enhanced assessment tools/knowledge
- **Level 2**: Current single-pollutant practice with corollary emphasis on co-benefits
- **Level 3**: Combinations of air management strategies that simultaneously meet multiple objectives (individual risk constraint)
- **Level 4**: Umbrella management strategy accounting for comprehensive risk reduction (max risk reduction constraint)
- **Level 5**: Incorporating synergistic effects in standard setting and implementation
Proposed Schedule

- Guidance to lead authors - May 2007
- Detailed outlines - June 2007
- Prepare draft reports - June - Oct. 2007
- Co-chairs synthesis meeting - Nov. 2007
- Prepare draft synthesis report - Nov. - Feb. 2008
- Final synthesis draft for internal review - March - June 2008
- External peer review - July - Aug. 2008
- Completion of final report - Sept. - Nov. 2008