

2005 Workplan – Technical Projects

TOC/Co-Chairs Meeting
May 13, 2004



Guidance on 2005 Technical Projects

- **Review Today:**
 - Budget Constraints [already done]
 - Schedule
 - Planning Needs for 2005 [and later]
 - Top 6 Technical Work Areas

2005 Workplan Development Schedule

- 2005 Budget and workplan submittals – target date of June 25th
- **Denver:** Planning Team meeting T July 20th [1-5 PM] and W July 21st [8 AM to 4 PM]
 - Bring 2006-07 project plans to meeting
 - AoH workgroup meeting follows 7/22-23
- 8/20 - Draft 2005-07 workplan/budget
- 9/10 - Final 2005-07 workplan/budget
- October Board Meeting approval
- Submit to EPA – \$ awarded late in 2004

2005 Workplan – Technical Needs

- **Meet Regional Haze SIP/TIP Requirements**
 - See Tables II-1,2,3 [pages 10-11] from Strategic Plan
- **Achieve Strategic Plan Milestones**
 - See Section IV
- **Technical Data and Analyses**
 - Use what S/T provide
 - Assess and supplement S/T data as needed, with agreement of S/T
 - Conduct analyses with, and provide timely results useful to S/T, FLMs, and interested groups
 - Clearly/concisely explain results for policymakers

SIP/TIP Regional Haze Planning Needs

- WRAP technical effort serves as the foundation for Western regional haze SIPs and TIPs
 - Current effort is designed to support reasonable progress demonstration for each Class I area in SIPs and TIPs due December 2007 [technical work to be complete Fall 2006]
- WRAP technical effort is defining:
 - Current conditions [2000-04 baseline period]
 - Natural conditions [2064 end point]
 - Conditions in 2018 [end of first long-range planning period], with and without new strategies

Top 6 Technical Work Areas for 2005-06

1. Emissions Data Management System (EDMS)
2. Regional Modeling Center
3. Sector-Specific Analysis/Projection/Control Assessments
 1. Dust Forum
 2. Emissions Forum
 3. Fire Forum
4. Monitoring Data/Analysis
 1. VIEWS
 2. Causes of Haze Assessment
5. Tying things together/Demonstrate Reasonable Progress
 1. Attribution of Haze [Phase 2] + WIGIMS ?
6. Tribal Data Development Work Group

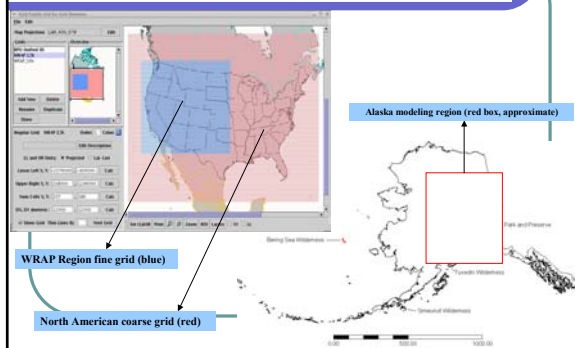
EDMS Phase 2 – 2005

- Oil and gas production and distribution
- Stationary Sources Forum scenarios
- Projections
- Stationary Source control device and related data
- Fire-related tools
- others

Regional Modeling Center - 2005

- RMC – ongoing responsibilities:
 - Emissions processing and modeling
 - Air quality and visibility modeling simulations
 - Analysis, display, and reporting of modeling results
 - Storage/quality assurance of the modeling input and output files
- [Likely] Major Deliverables
 - Modeling analyses of “complete/final/QAed” 2002 EI from EDMS
 - Modeling analyses of “2018 base case emissions projection”
 - 2-4 additional modeling analyses of 2018 emissions control scenarios and/or sensitivity cases

Modeling Regions



Dust Forum - 2005

- Deferred projects from last year
- others

Fire Forum - 2005

- EI projections – future planning period
 - Ranges of emissions
 - Scenarios for emissions distributions
 - Represent variety of conditions in 2018

VIEWS – 2005

- Sponsored by all 5 RPOs for past 2 years, “off-the-top” budget line of \$250k, so WRAP’s contribution = \$50k
- Project to be re-bid competitively 3rd quarter 2004, next contract period to run 10/04 through 12/05, with subsequent renewals
- Focus for new contract – half? of resources in “maintenance”, and half? in continuing development
- Displays Regional Haze monitoring data (mostly IMPROVE) allowing online analyses and reports, and download of complete monitoring records
- Supports the analysis of the monitoring data used in state and tribal regional haze plans



Causes of Haze Assessment Project - 2005

- 4-year project – 2004 was year 2
 - First batch of major deliverables in mid-2004
 - Next round in 2005-06
- Done 2004 - complete a set of descriptive analyses, maps, and other graphics for aerosol composition, spatial and temporal variation, emissions, land use, topographic effects, transport patterns, local wind patterns etc.
- Started 2004 - analyzing episodes to determine likely causes of haze for a variety of commonly and uncommonly occurring conditions
- For 2005 - using above resources, provide conceptual models of causes of haze and determine contribution based on frequency of occurrence of conditions

Attribution of Haze Project – Phase 2 [2005-06]

- **Identify:**
 - For actual 2002 and 2018 “base cases”:
 - Emissions that contribute to impairment at each Class I area by region
 - Mass and species distributions of emissions by source categories within each region
 - The amount of natural and manmade emissions affecting each Class I area

Attribution of Haze Products – Phase 2 [2005-06]

- Document assumptions, methods, and uncertainties used in the integrated analyses of modeling, monitoring, and emissions data.
- Provide succinct, clear summaries for policymakers of the estimated sources of impairment for each Class I area, including region of origin and associated uncertainty
- Deliverables:
 - Phase 1 report in January 2005
 - Phase 2 early 2006

Tribal Data Development Workgroup - 2005

- Continue support for tribes in building technical capacity
- Most technical support through Institute for Tribal Environmental Professionals (ITEP)
- 2004 Projects:
 - Tribal Emissions Inventory Software Solution (TEISS)
 - Import existing data, analyze using EPA methods and factors
 - Guide data collection, Do the calculations
 - Create reports, maps, graphs, and export to national database
 - Tribal Monitoring Data Analysis
 - TIP Technical Guidance Document

