

MEETING SUMMARY

The Technical Oversight Committee and the co-chairs of technical forums and work groups participated in a meeting on March 29-30, 2001. The goals of the meeting were to:

1. Review critical path for Section 51.309 SIPs.
2. Coordinate deliverables from technical forums.
3. Identify information and data needs from other forums.
4. Discuss management of technical effort.
5. Decide on technical forum co-chair appointments and discuss forum membership.
6. Make TOC liaison appointments.

The meeting commenced at 8 AM on March 29, 2001 with introductions and a discussion of meeting purpose. Attendees included:

TOC Members Present: Mike George, Bob Ramirez, Lewis McLeod, Roger Turner (for Farshid Farsi), Dana Mount, Bob Saunders, Rich Fisher, Doug Latimer, Wayne Leipold, CV Mathai

TOC Members Absent: Mike Williams, John Bartlit

Technical and Joint Forum Co-Chairs:

Modeling: John Vimont (Pat Hanrahan, absent)
Emissions: Lee Gribovicz, Dennis Schwehr, Bob Ramirez
Monitoring: Marc Pitchford, Tom Moore
Tribal Data: Bob Ramirez (John Cox, absent)
R & D: Mark Scruggs, CV Mathai
Mobile: John Kowalczyk, Bob Neufeld
Fire: Pete Lahm

Others Present:

Patrick Cummins and Rich Halvey, WGA
Bill Grantham, NTEC
Rosalina Rodriguez, EPA
David LaRoche, NAU/CSE
Gail Tonnesen, UC Riverside (RMC)
Brock LeBaron, Utah
Brian Finneran, Oregon
Kathy VanDame, Wasatch Clean Air Coalition (Communications Committee)
Doug Collins, Maricopa Assoc. of Governments
Michael Sundblom, Arizona
Melissa Lunden, DOE-LBL

That was followed by a series of reports and associated discussion from the following forums and working groups:

1. Emissions Forum
2. Mobile Sources Forum
3. Fire Emissions Joint Forum
4. Tribal Data Development Work Group
5. Research and Development Forum
6. Modeling Forum

During the course of these presentations and discussions, several issues were identified and discussed more definitively later in the meeting.

Some of these were:

What about newly identified critical paths? How are they to be dealt with?

Be sure and talk about tracking systems.

Get more information about the WESTAR SIP/TIP group.

Get mobile source emission inventory on the website.

What can be done to get Mobile6 into SMOKE?

Need to convene a “pass off” meeting with members of the Research and Development Forum expert panel on dust to kick off addressing the road dust issue.

This was followed by specific discussion of needs, deliverables, and schedules associated with each of the initial modeling products: the 1996 base year; the 2018 base case; and the 2018 control strategy run.

1. 1996 base year

The Emissions Forum needs and has agreed to attempt to deliver a draft emission inventory of stationary and area (minus fire) sources during the first week of April.

The Mobile Sources Forum needs a bit more time to address issues with getting Mobile6 into the SMOKE modeling preprocessor. This is being used to prepare inventories for both REMSAD and CMAQ. Because of issues with dust, road dust will not be included in the initial inventory effort.

The Fire Emissions Joint Forum will be unable to meet the April deadline, with the exception of a July, 1996 wildfire data set. As a result, no fire-related data will be included in the draft inventory, except what can be gleaned from July.

All providers of 1996 data agreed to attempt to finalize their 1996 emission inventories by July 15, 2001.

There are two issues that need to be addressed in the stationary and area source inventory between early April and mid-July, which are: a) check to see if any state biogenic data are included in the WRAP inventory, and if there are state data, then determine the impact of letting modelers use SMOKE to create a regional biogenic inventory; and b) make best use of recent Research and Development Forum report on reentrained dust to determine best course of action on categories addressed by report to attempt to improve estimates.

2. 2018 Base Case

The target date for getting the three pieces of the 2018 base case emission inventory is September 15, 2001.

The plan of action for this involves four general tasks: a) for the purposes of the stationary and area source emissions (minus fire) the emissions forecasting capabilities of the Integrated Assessment System (IAS) is being improved, and should be completed by the end of April; b) the Mobile Sources Forum and the Emissions Forum will jointly manage a contractor to acquire necessary economic growth information to ensure consistency with a target of August 15 for completion; c) the Mobile Sources Forum and the Emissions Forum will independently manage contractors to perform the appropriate emissions forecasting; and d) the Fire Emissions Joint Forum will be improving on future year estimates developed for the Grand Canyon Visibility Transport Commission.

Two additional interim milestones were identified: completion of scopes of work by April 26, and award of all contracts by June 15.

3. 2018 Control Strategies Case

The target date for completion of this work was also set for September 15, 2001.

The control strategies that must be quantified include stationary source SO₂ from Market Trading Forum work, enhanced smoke management programs, and pollution prevention. There may also be strategies for tailpipe and/or fugitive mobile source emissions pending the results of technical work.

After that several other modeling tasks were discussed. In general, these are intended to test whether certain control strategies are necessary. For example, CMAQ will be run with mobile sources turned off, then with mobile sources in each of the four states on the Colorado Plateau turned off to test their importance individually. It was pointed out that some element of the analyses should look at near-field effects at the Class I areas. A status report from the Sources In and Near Forum is needed on that issue. In addition, once issues with dust emissions are addressed, a the model will be run with road dust emissions turned off, so as to test their significance. The final test involves stationary sources of NO_x and PM. The Emissions Forum and the Modeling Forum are to collaborate, with the Emissions Forum the point of contact, to communicate to the Market Trading Forum what is possible and suggest what might be most useful and defensible. These are targeted to be completed by October, 2001.

Clean air corridors were discussed in some detail, and a process was agreed upon:

1. The Monitoring and Reporting Forum will coordinate a process to define the clean air corridor for 51.309, to be completed in April, 2001.
2. Once #1 is finalized, the Emission Forum will look develop data sets of present and future emissions, to be completed in October, 2001.
3. Once #2 is done, the Modeling Forum will model the difference between the two inventories.
4. Once #3 is accomplished, the entire body of work will be forwarded to the TOC to make a policy recommendation as to a triggering mechanism for additional controls.
5. Once #4 is done, the entire package will be sent to the IOC to finalize through one of its

forums or work groups, and on to the WRAP from there.

The group also discussed the various tracking systems required in 51.309. These include: stationary source SO₂, perhaps mobile source budgets, fire emissions and burning practices, and clean air corridors. It was decided to form a work group consisting of people from the Market Trading Forum, the Fire Emissions Joint Forum, and the Emissions Forum to address the issue, with a proposed kick off date of January, 2002.

Toward the end of the meeting, an attempt was made to summarize the various modeling runs required for the 51.309 SIP:

	<u>Description</u>	<u>Likely # of Runs</u>
1.	1996 base year	1
2.	2018 base case	1
3.	2018 control strategies, individually and in aggregate	4
4.	Clean air corridor	1
5.	Mobile source tail pipe, individual states and in aggregate	5
6.	Road dust	1
7.	Stationary source NO _x and PM	2
8.	Natural background	1
	Total	16

The time line for delivery of these were left undefined with the exception of #5, #6, and #7, which are to be completed for use by policy forums by October, 2001. A follow up discussion with respect to #5 and #6 resulted in assigning a task to the Mobile Sources Forum to define the type of modeling analysis required, and to do by September 15.

A summary time line for the emission inventory products was also developed:

Draft 1996 EI	S & A	4/01
	Mobile	4/01
	Fire	No draft
Final 1996 EI	S&A	7/15/01
	Mobile	7/15/01
	Fire	7/15/01
2018 Base Case	S&A	9/15/01
	Mobile	9/15/01
	Fire	9/15/01
2018 Cont. strategy	S&A	9/15/01
	Mobile	9/15/01
	Fire	9/15/01

Wayne Leipold agreed to prepare a Gantt Chart of the above with some additional detail.

The group was then asked to identify budget concerns. The Monitoring and Reporting Forum indicated that they will need the following:

Causes of Haze Report	\$250,000
Natural Conditions Process	100,000
Network Adequacy Analysis	15,000

These were determined to likely to be FY2001 budget items and were tabled until that discussion takes place in the next couple of months.

The Modeling Forum may need up to \$100,000 for hardware and staff to be able to run as many model runs as now appear to be necessary, perhaps 16. The Forum and the Regional Modeling Center will assess and advise.

More money may be needed for future year fire inventories.

On a related note, membership for a dust work group are supposed to be identified by the Mobile Sources Forum, the Emissions Forum, and the Modeling Forum to John Kowalczyk by April 15. John is taking the lead on this effort. The Research and Development Forum is then supposed to arrange a meeting with the work group and members of the expert panel for the fugitive dust workshop to brainstorm short-term and long-term solutions to the technical problem of estimating the effect of various geologic sources. Short-term fixes need to be identified and accomplished by July 15, 2001.

Finally, the group started to discuss how the technical process should be managed. One suggestion was for a continuously updated project chart (e.g. Gantt Chart) along with monthly reports. Monthly conference calls on the third Thursday of the month at 10 AM MT were settled on for the time being.

The group also discussed the additional WRAP technical staff position that has been discussed periodically, and in the end agreed to seek up to half time assistance from staff at one of the WRAP member states. Bob Ramirez and Mike George are to work on the position description, and have ready for internal review within two weeks.

The meeting adjourned at noon on March 30, 2001.