

**WRAP FEJF Meeting
March 10 & 11, 2004
San Diego, California**

Comprehensive List of Attendees

FEJF Members:

Pete Lahm, USDA-FS, FEJF Co-Chair; Ron Klein, AKDEC, FEJF Co-Chair; Steve Ambrose, USFS-Western Forestry Leadership Coalition (sitting in for Jim Lawrence); Dave Randall, Air Sciences Inc.; Mark Fitch, AZDEQ; Larry Biland, USEPA Region 9; Diane Riley, IDDEQ; Pat L. Shaver, USDA-NRCS; Bryan Jenkins, University of California; Bob Palzer, Sierra Club; Angel McCormack, Nez Perce Tribe (by phone)

Outer Circle Participants:

Darla Potter, WDEQ-AQD; Don McKenzie, USDA-FERA; Sam Jackson, NV BAQP; Brian Mitchell, NPS-ARD; Jim Russell, USDA-FS/USDI-BLM; Mike Ziolk, OR DOF; Bob Habeck, MT DEQ; Deb Wolfe, MT DEQ; Suraj Ahuja, USDA-FS; Lisa Bye, BLM/FWS/NPS in NM; Brian Bischof, USDA-FS Region 2; Shyh Chen, USDA-FS; Christi Gordon, USFS Region 3; James Scarborough, Air Sciences; Melanie Lombardo, AK DEC (by phone on March 10); Joe Kordzi, EPA Region 6 (by phone on March 10); Sam Sandberg, USFS Research (by phone on March 10); Aaron Worstell, National Park Service (by phone on March 11); Gail Tonneson, UC Riverside (by phone on March 11); Mohamed Omary, UC Riverside (by phone on March 11)

Other WRAP Participants:

Cathy Messerschmitt, NTEC, Tribal Caucus Coordinator; Don Arkell, WESTAR, State Caucus Coordinator; Tom Moore, WGA, WRAP Technical Coordinator; Pat Cummins, WGA, WRAP Co-Director; Rick Sprott, UT DAQ (serving as liaison to the IOC)

MARCH 10, 2004

Introductions (All)

Announcements

- Ron Klein, AK DEC has been reorganized. Ron has been assigned to the Water Division; therefore he is stepping down as FEJF Co-Chair in June. Melanie Lombardo from the AK DEC Division of Air will participate in the FEJF for AK.
- Darla Potter, WY DEQ has agreed to step up as FEJF Co-Chair in June to take Ron's place
- Diane Riley, ID DEQ stepping down from FEJF State Membership, this is her last meeting so a State membership position is opening up

FEJF Project Status Report (Pete Lahm and Ron Klein)

Fire Emissions Tradeoff Model (FETM) –

- Assessment was part of the original FEJF Workplan
- Scope of work finalized by a small group at the September 2003 FEJF meeting

- Contract fell through cracks, has now been signed (~ 1 week ago) with Air Sciences as the contractor
- 90 day turnaround for report
- go to Forest Service Region 6 website for information on FETM
- evaluating role of FETM and how it may have application to the various policies developed to date
- some implications of the utilization of the model in the future
- has some national applicability

Alternatives to Wildland Burning Report

- Report is now Final and is posted on the FEJF website
- Recognition of those that participated in this process, that took longer than originally thought
- Good report, with good color photographs
- Will provide bound copy to each of the state's air quality directors, as has been done in the past with technical reports. A suggestion was made to also send a copy to each of the state forestry directors (Ron will prepare a cover letter and follow up with Deb Kinsley on this request)
- No plans for further work on Alternatives to Wildland Burning. Further work planned for the Alternatives to Agricultural Burning has been postponed until the next workplan/budgeting cycle.

“Natural” & “Anthropogenic” Guidance

- Further guidance to Fire Categorization Policy in how to apply in the field is necessary, particularly for wildland fires.
- In the FEJF Workplan but really hasn't been moved forward
- Pete Lahm, Lisa Bye, AZ fire ecologist starting to move this forward
- Access the utility of using the federal land management fire regime condition classes, how far out of natural cycle the vegetation exists, or some other mechanism to cross walk what the Policy states and what is used in the field to make that “natural”/“anthropogenic” distinction clearer
- Task Team:
 - Pete Lahm, Lisa Bye, AZ fire ecologist, Jim Russell, Bob Habeck, Melanie Lombardo, Mike Ziolko, Brian Mitchell, Suraj Ahuja, Deb Wolfe
 - Montana will lead this effort forward
 - Need to have someone involved from the private rangeland aspect as well as tribal involvement if participants can be found, Cathy Messerschmitt will follow up in regard to tribal involvement

Regional Coordination Issues (309)

- In the FEJF Workplan but really hasn't been moved forward
- Regional Coordination required under Section 309 as well as in the ESMP Policy
- EDMS may come into play to address this need (EDMS addressed later in the meeting)
- Planning Workshop will address this topic (Planning Workshop addressed later in the meeting)

- EPA's efforts in Region 10 brought up by Diane Riley, are there similar efforts by EPA elsewhere in the West?
- Technical and a Policy issues need to be addressed
- FEJF needs to decide how to move this forward

Emissions Inventory Reports 1996 and 2018

- Data files and report files are ready to be burned to CD to be provided to the WRAP for posting
- QC work with regional modeling center has been added to the 2018 Report

De Minimus Project

- Moving forward
- Diane Riley, Co-Chair of the Task Team
- Issue paper sent out for review
- Tom Moore has comments from Gail Tonneson

WRAP Staff Reports (Tom Moore)

[See presentation by Tom Moore posted on the FEJF website.]

Technical Conference/Modeling Forum Meeting – Tempe, AZ

April WRAP Board Meeting

Attribution of Haze Work Group Status

- Mark Fitch point of contact for FEJF on the Attribution of Haze Work Group
- Concerns expressed regarding how the Attribution of Haze report will be geographically represented, especially regarding vegetation type that transcend State/Tribal boundaries for fire sources

Dust Forum Status (Natural/Anthropogenic Process)

Phase I Inventory Status Overview (Dave Randall & James Scarborough, Air Sciences)

[See presentation by Air Sciences posted on the FEJF website.]

- Sole Source contract issued within the past couple months
- Tight timeframe for this work, completion of Phase I by April 15
- Expedite providing prescribed burn data to Air Sciences for this effort
- Air Sciences provided format to Montana and Idaho at the meeting to assist in the submission of the data

309/308 Technical & Policy Overview (Dave Randall)

[See presentation by Dave Randall posted on the FEJF website.]

Compendium of work done to date by the FEJF: Policies, Guidance/Reference, Technical

308 and 309 Coordinating Committees Issues (Don Arkell)

- Work Group formed by Air Managers Committee
- First organizational meeting week after next
- Some staff time budgeted up to \$18,000, WRAP will support travel, but no separate budget.

- Provide feedback to the Forums on what is necessary to be developed for 308/309(g) Regional Haze SIPs
 - How and what has been utilized and incorporated into the 309 Regional Haze SIPs, for all Forums.
 - How 308 states can utilize and incorporate the existing work, for all Forums, and what other work needs to be done to develop the 308/309(g) Regional Haze SIPs.
- Develop a 308/309(g) Regional Haze SIP template
- Cathy Messerschmitt. mentioned that ITEP is also working with the tribes to develop a 308 Regional Haze TIP template, this is a parallel effort to the development of a 308/309 (g) Regional Haze SIP template mentioned above. The hope is to eventually coordinate these efforts.

Remote Sensing Project – EPA Region 6 and NASA (Joe Kordzi, remote presentation)

[See presentation by Joe Kordzi posted on the FEJF website.]

- Invitation for the WRAP FEJF to participate in the Remote Sensing Project, so the proposal is also posted on the FEJF website.
- Size of fire detected depends on the resolution of the scan (~1 km).
- Duration of fire can also be an issue that can be overcome somewhat by looking at the burn scar detection.
- EPA would be interested in the 2002 cross over potential for ground truthing
- Cannot guarantee a level of accuracy, the consistency and repeatability are the key
- This has not been presented to the AAQTF

Fire Emissions Production Simulator (FEPS) (Don McKenzie)

- Sam Sandberg unable to attend so Don McKenzie gave a brief update
- Take EPM and enhance it
- Long-term smoldering phase (over multiple days)
- Computations on heat buoyancy
- More flexibility on the input data
- Version 1.0 and the users guide is available on the USFS PNW website, visual basic program for use by FLMs
- We will post a link to the version on the FEJF website

Breakout Sessions

1. Emissions Task Team (Pete Lahm)
 - a. Phase I Details Discussion
 - b. Phase II Discussion
2. Planning Workshop Task Team (Ron Klein)
3. De Minimus Scenario Development (Diane Riley)

MARCH 11, 2004

Schedule Next Two Meetings

- June 14-17, 2004 Portland, Oregon

- (ETT mtg 14 PM, FEJF mtg 15-16 AM, Planning Workshop 16 PM - 17)
- Presentation by Paul Ervin on ag burning and emissions credits/tradeoffs, Cathy M. contacted him
- September 8-9, 2004 – Location TBD
 - location suggestions are Denver,
- Cathy M. will seek out a Tribe to host an upcoming meeting

National Fire Emissions Technical Workshop Task Team Issues

- National: EPA, FEJF, other RPOs, USFS involvement
- Logistics
 - May 4-6, 2004 New Orleans
 - 2 ½ day workshop
 - ½ day steering committee follow-up to develop findings
 - suggestion to develop a proceedings as well as a findings
 - suggestion to publish paper in a peer reviewed journal after the workshop
- Content
 - Review of Draft Agenda
 - Focus is on immediate technical issues for the upcoming modeling work
 - What will be addressed at the technical workshop has been limited due to time for the workshop and the time to plan the workshop.
 - This is not a policy workshop, nor a workshop focused on what is going to be developed in the future
- Organization
 - Facilitated Interactive Workshop, Dan O'Brien
 - Plenary sessions, Track 1 Fire Activity, Track 2 Fuel Consumption and Emissions
 - Poster presentation also available
 - 125 people total via nomination process, fire experts and those involved in field, not an educational event

FAICG Report on National FLM Fire Tracking Plans (Aaron Worstell via phone)

[See white paper on the Fire Occurrence Reporting (FORS) System posted on the FEJF website.]

- Overview of Fire Occurrence Reporting (FORS) System project that at this point in time is in its infancy, streamlining of fire statistics systems.
- Development and Implementation if fairly far off (~ 2 years).
- Next 6 months may be important for involvement in shaping what will move forward.

Emissions Reduction Techniques Guidance Issues and Direction (Ron Klein)

- Phase I Bibliography completed and posted on the FEJF website last week
- Annotated Bibliography Comments
 - Very few comments received, for the most part the comments received were favorable
 - a couple changes were made based on the comments – resource list expanded, disclaimer that some information dated and there may be additional information that the contractor was unable to find

- questions regarding what next
- Next steps –
 - Assess what is needed in the end (should this include ERTs and Alternatives to Burning)
 - Way to calculate emission reduction technique effects is necessary (see discussion from December 2002 FEJF meeting in Jackson, WY) for use in the field and at the planning level
 - Integration into the NEPA process for project specific evaluation
 - Integration into the EDMS
 - Access current tools (CONSUME, FOFEM, FEPS, etc.) available to estimate the benefit of ERTs and then determine what else needs to
 - Cathy M will provide a presentation that has been done for some Tribes on biomass utilization and will see if it can be sent to the meeting attendees or posted on the FEJF website
- There is some budgeted funds remaining for follow up on this
- Appoint Task Team leader, members and deadline
 - Having something by the end of 2004 is necessary for 309 states for Annual Emission Goals and Oregon has a requirement for the use of ERTs that predates the Regional Haze SIP
 - Suraj Ahuja, Angel McCormack, David Strohm (UT DAQ) volunteered, Dan Redline (IDDEQ) volunteered by Diane Riley, Sam Jackson, Lisa Bye, Jim Russell, Don McKenzie

EDMS Status and Issues

- Mark Fitch and Pete Lahm have been involved to date
- E.H. Pechan & Associates is the contractor
 - 2-day workshop likely in San Francisco week of May 10 to talk to states regarding needs for submitting data to EPA for the CERR (all source categories)
 - States have been or will be contacted regarding their current fire tracking systems and formats
- Fire Needs
 - Ensure EDMS architecture will accept a range of record formats (OR program, ICS209, ID/MT program, PFIRS, etc.)
 - How emissions will be calculated for fire within the EDMS
 - The details of the emissions factors, calculators, gap filling, etc. need to be developed.
 - Daily entry of information and GIS related architecture
 - Potential utilization for regional coordination
 - Concerns expressed about the QA process and how often it will take place – potential solution is to hold the daily information as preliminary until it can be processed for QA on a quarterly or annual basis
 - Need to think about what GIS layers should be included for fire (import those already available not create new under this contract)
 - ERT utilization

- NIF for fire format has a number of issues in terms of what is necessary for modeling and does not satisfy the needs identified in the Fire Tracking System Policy
- Needs and potential usage will vary state by state in the West
- What needs to be done in Phase I by October EDMS usable version and what needs to be done for Phase II in 2005
- New Task Team Needed
 - Mark Fitch, Pete Lahm, Mike Ziolko, Darla Potter, Sam Jackson, Melanie Lombardo, Brian Bischof, Someone in USFS research, operational calculation of emissions (suggest Janice Peterson), Tribes that have their own tracking systems via Cathy M.

Sensitivity Project Status (Gail Tonneson & Mohammed Omary via phone)

- Dave Randall and Gail Tonneson gave an overview of the work: the files that have been provided to the RMC in the past and how those files have been used to date, how those files will be used in the sensitivity runs, what we hope that we can learn from the sensitivity runs.
- Analysis is ready to begin on the sensitivity runs with CMAQ by the Regional Modeling Center
- It is not clear to the RMC how the runs that have already been done will be useful in term of the sensitivity analysis.
- Comparisons will now be run and done for shorter time periods.
- ETT needs to review the details and provide feedback to the RMC, including the duration of each sensitivity run (suggestion to run ~ 4 months at a time).
- Develop protocol by the end of next week.
- Putting some plots together now from the existing runs and will be posted on the RMC website tonight or tomorrow.
- 2-3 weeks after the sensitivity runs are started the plots will be generated and posted on the RMC website.

Breakout Session Reports

Planning Workshop Task Team (Ron Klein)

- June 16 afternoon – 17 all day, 2004 Portland, Oregon
- Ron will rework the draft agenda, with objective and target audience statement, and send out next week to those involved in the Task Team. Follow up with a broader review by the FEJF.
- Discussed workshop objectives
- Target audience ~50 SIP/TIP planners and smoke specialists, states and tribes decide on whom to send
- Advance registration will be necessary for planning
- Review of agenda and topics to be covered
- Add some information from the causes of haze report in regard to fire and organic impacts

- Recommendations to put sideboards on all presentations (targeted questions to be answered during the presentation) so that we get what we want

De Minimus Scenario Development (Mark Fitch)

- Overview of Meso-scale and Regional-scale paths
 - Matrix to compare and contrast the Meso-scale and Regional-scale scenarios will be prepared
- Table of state “de minimus” levels will be discussed more generally and put in an appendix as it seems to be a lightning rod of unnecessary concern.
- The modeling scenarios still need to be fleshed out, some have been roughed out but the details need to be determined.
 - Need to turn fires on and off, not cut emissions in half in a grid cell, to maintain the correct plume characteristics. Clarify if this can be done post SMOKE.
 - All scenarios will be developed post SMOKE. Therefore, focus efforts on the QC side on the post-processed results.
- There will be more conference calls of the Task Team to move this project forward, will eventually need to have a coordinated call between the Task Team and Gail Tonneson to finalize the details prior to any modeling runs taking place

Emissions Task Team (Pete Lahm)

Phase I Discussion

- Moving forward at a fast rate
- Ironed out some details on the Federal and State data requests
- Advanced on strawman approach on quantitative processing, plume characteristics, fuel loading and consumption, and n/a classification on lower priority.
- Need to be finalized within the next couple weeks that may be a limitation.
- There is potential for deviation from the previous 1996 EI approach.
- April 15 deadline

Phase II Discussion

- September deadline
- Identified that an agriculture inventory and rangeland inventory needs to be prepared for 2002
- Need to address n/a classification
- Need to address larger wildfires
- Extension of being able to implement the proposed changes from Phase I in Phase II
- Improved QA/QC peer review process on the emissions inventory in Phase II
- Range due to uncertainties/variability needs to be captured
- Key question is how we get the work done associated with Phase II needs to be discussed with Pat Cummins, Tom Moore, Rich Halvey
 - ETT will continue to assess the above bullets and decide how to proceed – continuation of sole source or competitive bid

How to use CERR to peer review emissions inventory data.

How Phase I or Phase II will fit in the EDMS still needs to be discussed by the ETT