

**WRAP Dust Emissions Joint Forum Conference Call**  
**April 27, 2004**

*Notes courtesy of Lee Gribovicz (with edits from Lee Alter and Duane Ono).*

Participants included:

Duane Ono	Jean-Paul Huys	Ed Barry	Gerry Mansell
Mike Edwards	Gail Cooke	Roger Isom	Richard Countess
Lee Gribovicz	Andy Berger	Rob Farber	Chat Cowherd
Lee Alter	Toni Richards	Doug Latimer	Mary Ann Grelinger
Tom Moore	Kermit Snow	Ken Hamilton	Susan Hardy
Wayne Leipold	Mel Joseph	Mary Woods	
Marc Pitchford	Barbara Trost	Christine Chulak	

The Agenda for this call is posted on the DEJF website, and the affiliation of these participants is listed on the second page of that agenda.

Call Details

★ Co-Chair Status ★

On the last call, Duane Ono announced that Carrie MacDougall was resigning as a Co-Chair of the DEJF. Lee Gribovicz and the WRAP staff had been searching for possible candidates from among WRAP contacts, and this date Lee G. announced that Mike Edwards from the Idaho State Department of Environmental Quality had volunteered to step in and replace Carrie as the new DEJF Co-Chair.

Lee Alter explained that the WRAP process involved having the Initiative and the Technical Oversight Committees (IOC/TOC) approve all Co-Chair appointments, and he noted that if there was other interest, they should contact Duane, Lee A. or Tom Moore. Lee G. acknowledged the formal approval process and explained that he would be circulating a description of Mr. Edwards' background and his Statement of Interest shortly.

★ Next Meeting ★

The Forum had previously discussed setting the next DEJF meeting near Pullman, Washington. Candis Claiborne, at the University of Washington is active in wind tunnel studies and it was suggested that it might be good for Forum members to observe some of this wind tunnel technique. No contact had yet been made with Ms. Claiborne, however, and this date Duane suggested another possibility. Duane noted that the Dust Handbook Review Team was planning on a meeting in Bishop, California about that time and he suggested that the DEJF general meeting might take advantage of this to allow the rest of the Forum might get more involved in the Handbook project. As a possible meeting location, he noted that Mammoth Lakes was in the Sierra Mountains, within about a 2½ hour drive from Reno. He noted that participants coming from Reno would pass by Mono Lake, which is a windblown dust area, while participants coming from the south would pass through the Owens Valley where his agency has worked extensively on the Owens Lake windblown dust question.

Everyone felt that this would probably be a beautiful place for a meeting, but the issue was raised of the difficulty of reaching the location. Lee Alter noted that the WRAP provided subsidies to a number of WRAP Forum participants, and such a remote location might cause an unacceptable expense. Others noted that there is an issue of timing with an extra day of travel thrown in. The tentative dates for this next DEJF meeting are July 27-29<sup>th</sup>, and it was noted that we probably have to get the details for this site finalized around the first part of June to allow participants plenty of time to make their travel arrangements. No decision was reached about this meeting location on the call. The Co-Chairs and WRAP staff will work together to finalize the meeting plans.

★ 2005 Planning ★

Lee Gribovicz explained that the 2005 Budgeting/Workplan process would soon be under way, beginning with a May 13<sup>th</sup> TOC Meeting in San Francisco. At that meeting, the TOC will review the WRAP Strategic Plan, look over the progress that Technical Forums have made thus far in 2004, and provide guidelines to the Technical Forums' Co-Chairs for their 2005 work planning effort. Then the TOC would schedule a meeting sometime in late July or early August to review the Technical Forums' written Workplans and proposed 2005 Budgets. This would be followed by a meeting of the Joint Planning Team (comprised of both oversight committees, all Forum Co-Chairs, and the Air Managers Committee), probably in the September timeframe, to reconcile the Technical and Initiative efforts with the anticipated funding. The full WRAP 2005 Workplan & Budget would then be reviewed for approval by the WRAP Board at their Fall Meeting.

Given this schedule, Lee G. suggested that the DEJF probably will have to develop their 2005 Workplan through telephone calls, and use the late July meeting for final approval of the plans by the full Forum membership. However Lee A. pointed out that a majority of the DEJF products will be coming together in the Fall of the year, and these results will tend to drive the future DEJF direction. He noted that there is some flexibility in utilizing "place holders" for future funds, and that the 2005 DEJF Workplan may not have to be "cast in stone".

Regarding products, Lee G. suggested that the Definition of Dust and the Natural/Anthropogenic split was of major importance to States & Tribes preparing SIP's and that effort should definitely be completed in 2005. Lee A. sees more analysis of monitoring and modeling data in the coming year, probably focusing on the largest or most common dust areas/problems in the region first. Other participants suggested that we really need better dust modeling to monitoring correlation and of the fine/course dust split, so these projects would also be a major focus in the coming year. And Lee A. pointed out that once we get the Web-Based Dust Handbook completed, then we will have an on-going task to update the handbook to keep it current. And another possible task would be similar to the Fire Forum's effort in developing the enhanced smoke management plans, where the Dust Forum would look at enhanced dust management for visibility purposes. And Lee G suggested that the DEJF Tribal Representatives work with Bob Gruenig, to identify any special tasks that the Tribes might need to address dust issues in the coming year.

It was generally concluded that all the five current Dust Forum focus areas probably will need some attention in 2005, and Duane asked the Project Team Leaders to think about where their particular projects are going next year.

Lee Gribovicz. noted that the TOC was asking the WRAP Technical Co-Chairs to attend the May 13<sup>th</sup> San Francisco meeting, but Duane Ono explained that he wouldn't be able to make it. Lee G. noted that there will be a telephone line available, and he hoped that any of the Co-Chairs who wouldn't be able to attend the meeting, would at least participate by phone. Duane suggested that Wayne Leipold was extensively involved in the DEJF, and wondered if he could uphold the Dust Forum's obligation at this meeting. The problem was that Wayne hadn't committed to going yet, either. Mike Edwards was also asked about his participation, and he felt that he'd probably be able to attend. But being brand new to the process, he felt that he'd have to have a lot of support to get up to speed on the DEJF activities. It was noted that he was welcome to ask questions of any participant, and Duane Ono, Lee Alter, Tom Moore and Lee Gribovicz would be happy to provide any assistance that they could.

★ DEJF Projects: 20% Worst Days Analysis ★

On the last call, the March 16<sup>th</sup> proposal from Vic Etyemezian at DRI was reviewed. This DRI work would "develop and document a methodology for assigning worst dust days at IMPROVE monitors within the WRAP domain to a set of source classes" and to "use the methodology to categorize worst dust days in the WRAP domain over the period 2001-02". Worst dust days from 2003 will also be included in the analysis as 2003 monitoring data are made available. This project schedule calls for reporting on the first two years by the end of 2004, with 2003 analysis completed as time permits.

This project will be incorporated as an amendment to the existing DRI contract and this date Lee Alter noted that the \$50K amendment hadn't been finalized. Marc Pitchford noted that DRI is doing some preliminary planning, but can't move fully into the project until the contract is issued. Lee A. will follow-up to assure the contracting is completed shortly.

★ DEJF Projects: Dust Handbook Project ★

On the last call, it was announced that the Review Team of Wayne Leipold, Ed Berry, Lee Alter & Duane Ono had selected Countess Environmental (working with Midwest Research's Chat Cowherd) as the contractor for this Web-Based Handbook project. [Note: Jean-Paul Huys and Susan Hardy were later added to the project team.] This date Richard Countess explained that the contract was awarded April 23<sup>rd</sup>, but the Countess Team had already been working on the first task, preparation of a Project Workplan, which was completed with an April 20<sup>th</sup> draft document (posted on the DEJF website). This date Duane asked Forum Members to provide any Workplan comments to him by April 30<sup>th</sup>.

Richard and Chat Cowherd explained that they are also working on a draft Chapter for the Handbook, this one on dust from unpaved roads. They envision this as a detailed sample of how the rest of the Chapters will be structured, but not necessarily with complete content on the Chapter subject. This Draft will provide an opportunity for the workgroup to review the contractor's overall approach and format for the 8 source categories (ie/ format, level of detail and placement regarding sample equations and case studies, how to deal with uncertainties, how to include various sources of information outside AP-42 & etc.).

The Countess Team felt that they would complete this draft Chapter by April 30<sup>th</sup>, and it was decided that the Review Workgroup will have a call on May 6<sup>th</sup> at 10 am (Pacific time) to discuss the draft. At that time, the Review team will settle on any revisions, distribute the document and decide when general comments are due. Again, the Countess Team is hoping to get comments, first on the format, so that the succeeding Chapters of the Handbook will thoroughly and logically cover the subject material.

Task 2 (compiling fugitive dust information) is expected to be complete by July 9. Task 3 (summarize fugitive dust control options) is expected to be complete by September 10. Mr. Countess also noted that the Project Team has made preliminary contact with the WRAP webmaster, to assure coordination with the development of the Handbook website.

Susan Hardy brought up the topic of uncertainty in calculated Paved Road Dust emissions, and their relationship to actual monitored values. She is extremely concerned about what she considers are significant discrepancies in this relationship, but the question was raised as to whether this issue was more a problem of emission calculations or dispersion modeling. This issue will be reviewed more specifically with the review team.

★ DEJF Projects: Improved PM<sub>2.5</sub> Fraction Estimates ★

This project is to complete an evaluation of the accuracy of calculated values for the PM<sub>2.5</sub> fine fraction of dust. The project would look at the methods of PM monitoring in use to determine what bias is present in current sampling results. The workgroup established for this project consists of Rob Farber, Barbara Trost, Bruce Friedl, Gail Cook, Duane Ono, Roger Isom, Kathy Messerschmitt, Jean-Paul Huys & Don Arkell. This date Chat Cowherd said that MRI is working with UC-Davis on project details and a more formal proposal. Duane explained that he has sent in a request to the WGA for approval of a sole source contract issued to MRI and UC Davise this project. A copy will be sent to other team members.

★ DEJF Projects: Natural vs. Anthropogenic Definition ★

On the last call the Forum reviewed a March 15<sup>th</sup> Draft containing a definition of *Dust* ("Particulate matter that is or can be suspended into the atmosphere as a result of mechanical, explosive, or wind-blown suspension of geologic, organic, synthetic, or dissolved solids. Dust does not include non-geologic particulate matter emitted directly by internal and external combustion processes") and *Fugitive Dust* ("Dust that does not enter the atmosphere through a vent, duct, stack, or tailpipe"). The Draft also contained a table with examples of "Natural" and "Anthropogenic" sources of dust.

This date Lee A said that pursuant to some feedback he has gotten from DEJF members and SIP planners, he will make redline/strikeout edits to the version previously reviewed and send it to the DEJF for further review. It will be emailed to the Forum in the near future. Alter suggested that further refinement, background, elaborations, examples, etc. be postponed and contingent upon the results of other DEJF projects and the types of sources and strategies that may emerge as reasonable haze control options.

★ DEJF Projects: Windblown Dust Model ★

On the last call, it was reported that the Phase I Report on this project was finalized March 12<sup>th</sup> (available on the DEJF website). The discussion on Phase 2 refinements will be coordinated by Tom Moore, with a Scope of Work Subcommittee consisting of Lee Gribovicz, Tom Pace and Duane Ono.

This date Tom noted that he had talked with Gail Tonnesen and RMC staff regarding the level of effort warranted for this project. The RMC has expressed some concerns, because they note that they will be receiving windblown dust inventories from other RPO's that are likely to have been calculated by some other method than the WRAP Windblown Dust Model. They are concerned with the consistency of emissions, and they want to know what we're going to do before they begin work on improvements to the WRAP's model. Thus Tom has asked the RMC to look at other peer reviewed dust models available in the scientific literature, to see whether there are advantages that make them preferable to the WRAP's model. Tom has a draft SOW for improvement of the existing WRAP model, but Tom will wait until he receives recommendations from RMC staff before he releases that Scope to the reviewers. He plans to come back to the Dust Forum on the next call with a recommendation on how to proceed.

Lee Gribovicz cautioned that *States & Tribes absolutely need a wind blown dust emissions inventory by the end of 2004*, and noted that we have dedicated a lot of resources to developing the current wind tunnel & land use based model. He emphasized that if we decide to go with

another model, that decision has to be made **VERY QUICKLY**, in order to facilitate completion of the required dust inventory on time.

★ Next Call ★

The DEJF calls are to be held on the fourth Tuesday of each month, with the next call falling on May 25<sup>th</sup> at 11:00 AM, Mountain Time (10 AM, Pacific).