# WRAP RHPWG Monitoring & Glide Slope Workgroup

**Minutes** of the Conference Call November 15, 2018

1. **Roll Call**

Present for the call were: Ryan Templeton, Cindy Hollenberg, Kristen Martin, Brandon McGuire, Frank Forsgren, Phil Allen, Bob Lebens, Brett Gantt, Pascall Warren, Tina Suarez-Murias, Tom Moore, Pat Brewer

1. **Administrative**
   1. Arizona will take notes on 11/29 call
   2. Subcommittee meeting schedule:

EPRI has been looking at the impact of international emissions on haze using the EPA model, and is prepared to give a presentation of their results. Ryan will put out possible dates for the presentation, possibly 12/13 or in January 2019.

1. **Call for review**
   1. Summary Doc: <https://azdeq.sharefile.com/d-sf474f65b00e44d49>

A number of people are working on individual chapters, but Ryan needs additional help in getting the Summary document completed to supplement the information that has been pulled in from the original Outline document.

Background section: Describes visibility tracking and glide path, how DVs are calculated, etc. in three major sections. Pat has provide information that has been incorporated. There may be some overlap between Tina’s and Pat’s work, and this information may be combined. Frank suggested adding a map of the IMPROVE monitoring network. It was noted that an overview of the endpoints should be added.

Initial dataset usage section: Currently, the information in the section is from the Outline. The work ARS is doing will go into this section, and someone needs to work on help incorporate the ARS work. Cindy volunteered. Kristen noted there could be a discussion in the section of where the data is located and how to access. In addition, a distinction could be made between the posted data and data that is QA/QCed and adjusted. At the present there is only a link to the Federal website, but in the future a bulk download will be made available from TSS.

Calculation options Section: Kristen said that consistent terminology was needed throughout the document. 25 representative sites were selected with descriptions and analysis. Different metrics were examined, and the results included work that Brandon did. Of the sites analyzed, one had high variability, and another with low variability. However, overall it was felt the 95th percentile was the best threshold. Ryan said he had been looking at sites with periods of low level, persistent wildfire impacts that are important contributors to haze but not sufficiently extreme to trigger the 95 percentile. In these cases may want to consider a lower threshold for individual sites. Pat has an interest in looking further at this by looking at the episodic thresholds. and the division between routine and episodic events. Tom asked about the criteria states would use to decide which threshold is best. States may start with the 95th percentile before testing lower thresholds. Some states may not have looked at the analyses yet. Ryan said he is working on a list of alternatives that will check the accuracy of different metrics, and potentially provide a basis for determining the best metric. It was noted that EPA said states can use any tracking metric that their Regional Office approves. The document that Ryan is working on will provide an example of a demonstration for EPA of the best metric. Ryan will circulate the document for review by the group.

Work products Section

Currently, the material in this section was brought over from the Outline, but Ryan will flesh out. A question was raised about providing links. Although links are helpful, they can be broken and it would be useful to have both the link and the name of file in the event the link becomes broken.

Subcommittee Coordination Section

Ryan asked the group to look through this section. Items can be added after the TSC meeting in Dec.

Natural haze vs controllable impairment vs uncontrollable sources

It is in outline form now. Tina noted that out of state contributions can be either from another state or international. Ryan said it might be better to combine this section with the Background Section as there is a lot of overlap.

Subcommittee Membership

Let Ryan know if there are corrections or additions.

* 1. E3 Excel Workbook User Guide: <https://azdeq.sharefile.com/d-sa6e465dbd7f493e8>

User Guide has been updated, the Group should review

* 1. Updated Excel E3 workbooks: <https://azdeq.sharefile.com/d-sc5e4f7114d44fceb>

Workbooks have been updated, the Group should review.

1. **Action Items**

Pat said ARS will shortly send out a survey to states. Each state should look at its own sites, and get back to ARS if the sites are OK. If a state needs more time to review, let ARS know. All of the sites that are in consideration are shown in the last ARS PowerPoint presentation.