



Round 2 Regional Haze Planning Workshop State Planning, Regional Analysis, and National Coordination

Western State Caucus breakout groups' notes

December 7, 2017

This document catalogs the handwritten notes from each breakout group. Jay Baker has a list of questions and interested people for each of these 6 topical breakout groups.

Consultation and Coordination

Sources of Deliverables	Need	Timing
RHPWG FLMs and TDWG	FLM and Tribal contact lists	Spring 2018
TDWG & EPA Regions	Tribal Emissions Inventories	Spring 2018
RHPWG FLMs, EPA Regions, other non-WRAP MJOs/regions	Contacts for States, EPA Regions, other non-WRAP states	Spring 2018
RHPWG and TDWG	Framework for consultation (interstate, tribal, FLM, EPA, Local Air agencies) Gantt Chart with periodic check-ins <ul style="list-style-type: none"> • TSC and WGs • Identify critical milestones and key consultation points 	

What are ?s we need to answer?

What sort of deliverables would need to produce? By when? By whom?

Out of state contributing sources

Share draft communications ideas

Identify key decisionmakers based on the decision being made – TSC, WESTAR Council, WRAP Board, WGs – end of 2018

Shared Database Construction

No participants – no report

Emission Inventories

Base year: 2014 unanimous

- Include notes on recent modifications
- Base year should be consistent where possible- same as central U.S.?

How do we avoid double-counting for oil fields that span multiple states?

EI Protocols / Deliverables

Who?

WRAP does non-point subtraction (minors)

- Oil & Gas

States deliver minor source EI

- Selected (not all)
- As desired by state

EI Timeframe

Base year: Summer 2018

Future year: Jan. 2019

Monitoring Analysis and Glide Slope to Natural Conditions

Questions	Protocol	Deliverable
What's really needed/ what's not?	Difference between 2014-2016-2017	Fire Studies
Natural Conditions 2064	Work on:	Modeled estimates
Reassess NCs	Natural Condition Estimates	
Physical constraints on statistical process (WRAP)	Consistency	
Routine Natural	International Emissions	
	Roadmap – data analysis for OC/EC/FS/CM thresholds	
How do you interpret current data?		Tutorial on how to use data
What do you do in the meantime		<ul style="list-style-type: none"> • 2014 emissions inventory
Need international from global modeling		<ul style="list-style-type: none"> • Base year planning

What to put in baseline (base year)		• Base year modeling of sources in the future
International – add what / where		
Can we look at anthro only		

2014 not projected to 2028 yet

Slippage not acceptable

Timeframe – early 2020 MT submittal (RPGs need to be earlier), modeled estimate might not be ready, natural conditions

Control Measures

What are going cut now?

Where do we cut?

What are the sources/sectors near the Class I areas?

Do we ask the FLMs/EPA to look at sources, i.e., make an “Ask” of them?

States will have different areas where they can control

- Some did not ask for residential cuts in Round 1
- Can we ask more from industry? Will industry be more willing if we ask other sectors?

Are there other methods for effective screening besides Q/d?

- Alternative methods of screening?

Do we look at smaller sources now?

In Round 2, states will need to look explicitly at visibility impacts. It will be based on source/sector impact on visibility. Do states need to look at source-specific control measures?

Do we utilize thrushods (deciview impact) for further analysis?

Do we look at other pollutants beside SO₂ and NO_x (i.e., PM or ammonia)?

We will need to consider political factors and influence on control measures (i.e., Public Service Commissions, Legislatures, et cetera).

Can Western states go through an “Ask” process like the eastern state did?

State will need to be careful looking at lower emitters in Round 2.

Can there be more western state cooperation in Round 2?

Modeling Protocols

Identify sources	Identify sources – source apportionment
Calculate RPGs	Calculate RPGs
International controls ---> Source Apportionment	International controls/ source apportionment
Base year	Base year modeling
Model Performance Evaluation for Class I areas	MPE evaluation especially for Class I areas
Future Year	Future Base Year
Future Year with controls	Future Base year with controls
Meteorology (Weighted Emissions Potential)	Meteorology (Weighted Emissions Potential)
Inter year variability	Inter year variability
<ul style="list-style-type: none"> • Regional • Species 	<ul style="list-style-type: none"> • Regional
5-year average and modeling	
What are the planning timelines?	
State activity vs. WRAP	
<ul style="list-style-type: none"> • CAMx vs. CalPuff • Modeling vs. Planning Products that planners need • Options for screening – Q/d 	
Compare grid results - 12km vs. 4km	
Design Inventory	
Dynamic modeling evaluation	
<ul style="list-style-type: none"> • Go back some # of years 	
Boundary conditions	
Evaluation needs	