

## Outline of TSS Documentation 7/26/06

Red text indicates state/tribe involvement

### 1. Background Information

- What is the Western Regional Air Partnership (WRAP)?
- What is the WRAP Technical Support System (TSS)?

### 2. Regional Haze Rule Reference Information (could have list on WRAP or TSS web site)

>>> ASK IWG for their input – do they want this list of documents/links (absolutely minimal text, maybe just list); maybe they can pull the links together?:

- Regional Haze Rule (RHR) overview
- EPA Guidance for the RHR
- Dust definition, fire info.
- other reference info (consult with Tom)

### 3. TSS Web Site Description

- TSS structure and site map
- Overview of SIP-relevant components
- Description of TSS tools

### 4. Emissions Inventory Development

- Development of source type EIs
  - Point and Area (including Oil and Gas)
  - Mobile
  - Fire
  - Biogenic and Windblown Dust
  - Ammonia
  - Off-shore
  - Boundary Conditions

Need to distinguish between WRAP and other inventories (CENRAP, Canada, Mexico, etc.)

- Descriptions and RMC specification sheets for all final EIs
  - 2002 EI (base02b)
  - 2000-04 baseline period EI (plan02c)
  - 2018 EI (base18b)
  - Various 2018 EIs based on specific control strategies (states will need to help document selected control strategies)

- Processing of emissions using SMOKE
- Preparation of metadata for all EIs

## 5. Ambient Monitoring Data

- Overview of IMPROVE network
- Old and new IMPROVE extinction equation
  - Implications for WRAP
  - WRAP recommendation for which equation to use
- RHR guidelines for data completeness and gap-filling
  - Which sites did not meet data completeness requirements and what are the proposed solutions?
- Natural conditions estimates
- Calculation of visibility metrics
  - Worst/best days
  - Glide slopes (by total deciview and by species)
- Monitoring uncertainties and know problems
  - Laboratory
  - Operational
- Preparation of metadata for all monitoring data

## 6. Modeling Techniques

- Descriptions and RMC specification sheets for all final model runs
  - 2002 (base02b)
  - 2000-04 baseline period (plan02c)
  - 2018 (base18b)
  - Various 2018 runs based on specific control strategies (states will need to help document selected control strategies)
- Air quality models
  - CMAQ
  - CAMx
  - CALPUFF
  - Model performance evaluation
- Meteorology models
  - PSU/MM5
  - CALMET
  - HYSPLIT
- BART modeling (specifications need to be supplied by states)

(this is not a regional analysis; interpretation is state by state; link to other locations)

- Preparation of metadata for all model results

## 7. Attribution Techniques

- PSAT
- PMF
- TRA
- Weighted Emissions Potential
- Preparation of metadata for all attribution results

## 8. GIS Source Data Descriptions

- GIS layer metadata
- GIS locations for layers not housed on the TSS

## 9. Weight of Evidence (WOE) Approach

- WOE overview
- WOE checklist description and tutorial

## 10. Glossary of Terms and Acronyms

## 11. Other Resources (Gerry)