Introduction Session

(Day 1 – 800-845)

Phase III/IV Project

Technical Workshop #2

November 1-2, 2005 – San Diego, CA

Introduction

- Participant introductions – in-person and dial-in:
  - Name / affiliation / what you expect to contribute / what you'd like to take away
- Logistical information

Organization of the Workshop

- Plan to stay in the large group.
  - May break into smaller task groups for Technical Modules.
- We'll be in technical STRAWMAN mode for much of the workshop
  - We've provided the initial horsepower.
  - We'll put out numbers and/or methods.
  - The group is asked to "dig-in" and scrutinize what we present and suggest improvements.

BUILDING PROJECTION EI'S
Workshop Method

Overview

Technical Method

Revisions / Justifications

Scalars/Targets (Strawman)

Revisions / Justifications

Desired Outcomes of the Workshop

1. Understanding of the methods to develop projection activity levels and agreement on any necessary specific revisions of the methods.
2. Agreement on projection activity levels for all fire types.

Desired Outcomes of the Workshop

3. Agreement on methods to apply Emission Reduction Techniques (ERT) to the projection emission inventories.
4. An end-user's understanding of the Fire Calculation Tool and agreement on any necessary revisions to the Tool's features.

Ultimate Products for the Phase III/IV Project

- Event-based planning emission inventories for the Baseline Period (2000-2004) and Projection year (2018) for the following fire types:
  - Wildfire – Prescribed Fire – Agricultural Burning &
  - Non-Federal Rangeland Burning
- Accounting procedures for tracking the application of Emission Reduction Techniques.
- A Fire Calculation Tool for Smoke Management Programs to use in air quality planning.

Rules / Requests

- Stay invested in the workshop's outcomes and the ultimate products of the Phase III/IV project.
  - Always move toward the outcomes.
  - Always move the products forward.
  - We're not in "consensus" mode here…we're in "how can we get the job done best" mode.

Context for Meeting

- Use of planning emission inventories.
  - Dispersion modeling (308 and 309 states Reasonable Further Progress demonstrations)
    - Tom's modeling schedule slides
  - Regional Haze SIPs
    - Emission budgets (308)
    - Application of ERTs, Annual Emission Goals, fire tracking systems (309)

2002 Actual Emissions = “base02a”

- **Actual “final” emissions from 2002 (FEJF Phase II)**
- **Used for Model Performance Evaluation (MPE) statistics – EPA requirement**
- **Running now**
- **Results:**
  - **36 km and 12 km resolution**
  - **Source apportionment – Natural vs. Anthro, Species by state**
- **Completed over next 4-6 weeks**

2000-04 Baseline Planning Emissions = “planning02”

- 2000-04 baseline period “representative” Phase 3 fire emissions
- Used for analyzing the change from 2000-04 to 2018 for regional haze
- Expecting Phase 3 2000-04 fire EI data in mid-October
- Other changes in “planning02” modeling run:
  - EGU temporal profile averages by state
  - Changes to CA 2002 emissions data
  - 1999 Mexico EI data
- Results:
  - 36 km and 12 km resolution
  - Source apportionment – Natural vs. Anthro, Species by state
- Complete mid- to late November

2018 Base Case Emissions = "base18a"

- 2018 base case emissions – "rules on the books" and activity changes from population growth
- Other piece of change from 2000-04 to 2018 for regional haze
- Expecting Phase 4 2018 fire EI data in November
- Factors in modeling 2000-04 to 2018 base case:
  - Wildfire constant
  - Windblown Dust constant
  - No BART included
  - EGU temporal profile averages by state
  - "first generation" of CA 2018 emissions data
  - 1999 Mexico EI data
- Results:
  - 36 km and 12 km resolution, Source apportionment – Natural vs. Anthro, Species by state
- First run results by December Board meeting

Technical Modules

- Anthropogenic = controllable
  - 10% of total fire emissions are Rx fire
  - A portion of these are categorized as “anthropogenic”
  - A portion of ANTH emissions aren’t controllable with ERT’s
  - The technical effort to tease out the controllable portion may not be worth the effort
- Relationship of Wildfire to WFU projections
  - What sort of WF events best represent WFU?
  - Do we scale up WFU events from Baseline?
  - Do we reduce WF EI with growth in WFU (not envisioned during the RFP and proposal)?

Technical Modules

- What to do about prescribed burning on State/Private/Other lands?