

**Attribution of Haze
Phase 2 Analyses
Draft Outline, 4/25/06**

LIST OF ACRONYMS (OR GLOSSARY – Glossary would be placed at the end of the document)

1.0 INTRODUCTION

- 1.1 Background
- 1.2 Overview of Attribution of Haze Project (Phases 1 and 2)
- 1.3 Overview of the Technical Support System Web Site
- 1.4 How This Report Supports the TSS as a Technical Support Document

2.0 ANALYTICAL APPROACH

- 2.1 Emissions Inventories
 - 2.1.1 Point and Area Source Emissions (to include Oil and Gas?)
 - 2.1.2 Mobile Source Emissions
 - 2.1.3 Fire Emissions
 - 2.1.4 Biogenic and Windblown Dust Emissions
 - 2.1.5 Ammonia Emissions
 - 2.1.6 Off-shore Emissions
 - 2.1.6 Boundary Conditions
 - 2.1.7 Emissions Version Specification Sheets
- 2.2 Monitoring Data
 - 2.2.1 The IMPROVE Monitoring Network
 - 2.2.2 Calculation of Visibility Metrics
 - 2.2.3 Discussion of the Old and New Extinction Equations
 - What are practical results of the changes to WRAP?
 - 2.2.4 Known Uncertainties/Problems in the IMPROVE Network
 - Describe laboratory and other uncertainties – quantify as possible
 - Describe known problems that affected data during the baseline period – site-specific for flow and clogging problems
- 2.3 Modeling
 - 2.3.1 Air Quality Modeling
 - What is different this time around?
 - Model Performance Summary (in plain language, not jargon)
 - Modeling Run Specification Sheets
 - 2.3.2 Back Trajectory Modeling

- 2.4 Attribution Assessments
 - 2.4.1 PSAT/CAMx Method (performed by RMC)
 - 2.4.2 PMF Method (performed by DRI)
 - 2.4.3 Weighted Emissions Method (performed by TSS Team)
 - 2.4.4 Phase 1 Source Apportionment Methods
 - Tagged Species Source Apportionment (TSSA) Method
 - Trajectory Regression Attribution Method
- 2.5 Glide Path Calculations
 - 2.5.1 RHR Glide Path Calculations
 - What do these tell us?
 - What are the limitations?
 - 2.5.2 Individual Species Glide Path Calculations
 - What do these tell us?
 - What are the caveats?
 - What are the limitations?
- 2.6 Description of Control Strategies Modeled
 - What are the changes to emissions in each control strategy?
- 3.0 TECHNICAL SUPPORT SYSTEM (TSS) WEB SITE DESCRIPTION
 - Tutorial for finding SIP-relevant items
 - Description of TSS tools which can be used to analyze data
- 4.0 WEIGHT OF EVIDENCE APPROACH
 - 4.1 Weight of Evidence Overview
 - 4.2 Weight of Evidence Checklist
 - By species since not all analyses apply to all species
 - 4.3 Weight of Evidence Tutorial
 - Several examples of using the WOE checklist for different kinds of sites
 - Many links to TSS web site
- 5.0 REGIONAL ASSESSMENTS
 - 5.1 Regional Emissions Assessments
 - 5.2 Regional Monitoring Assessments
 - 5.3 Regional Modeling Assessments
 - 5.4 Regional Attribution Assessments
- 6.0 NEXT STEPS AND RECOMMENDATIONS
 - What additional analyses might support current SIP?
 - What are the next steps for WRAP and the states after submitting SIPs?
 - Future plans for the TSS