

New Mexico Pilot Study Strawman

I. Executive Summary

- A. What is Visibility
- B. What is RH
- C. Overview of Case Study (Task at Hand)

II. Introduction

- A. What is Visibility in New Mexico
- B. RH Rules
- C. RH in New Mexico

III. RH SIP Requirements (Place Holder)

IV. Case Study

- A. Introduction
 - i. Pilot Study for Salt Creek Wilderness Area (SACR)
 - a. Overview
 - b. Issues
 - c. Purpose
 - d. Conceptual Model (Dust Definition Case Study)
 - ii. WRAP Tools
 - a. Dust Forum
 - 1. Definition of Dust
 - 2. Salt Creek Case Study
 - 3. Fine Fraction of Fugitive Dust
 - 4. Causes of Dust Regional Analysis
 - 5. DRI New Mexico Study
 - 6. Fugitive Dust Emissions from Wind Erosion
 - 7. Fugitive Dust Handbook
 - 8. Comparison of WRAP Dust Emissions
 - b. Attribution of Haze
 - 1. Causes of Haze Project
 - 2. State Report for New Mexico
 - c. Modeling
- B. SIP Development
 - i. Reasonable Progress Goal
 - a. Develop Rate of Progress for SACR
 - 1. *EPA Guidance for Tracking Progress Under the Regional Haze Rule*
 - 2. *TSS Weight of Evidence Graphic*
 - b. Interstate Coordination with Other Jurisdictions
 - ii. Dust Visibility Impairment
 - a. Baseline visibility conditions for the most impaired and least impaired days for SACR
 - 1. *Definition of Dust*

- 2. *Causes of Haze Project*
 - 3. *Visibility Information Exchange Web System*
 - b. Natural visibility conditions for the most impaired
 - 1. *EPA Guidance for Estimating Natural Visibility Conditions Under the Regional Haze Program*
 - 2. *Conduct Comparison of EPA Estimate with WRAP Data*
 - c. Dust Light Extinction
 - 1. *TSS Weight of Evidence*
- iii. Long-Term Strategies
 - a. Contributions from Other States and Countries
 - 1. *Causes of Dust: New Mexico Study*
 - 2. *Causes of Dust Regional Analysis*
 - 3. *Mexico NEI Project*
 - b. Documentation of Modeling, Monitoring, and Emission Inventory
 - 1. *Fugitive Dust Emissions from Wind Erosion*
 - 2. *Causes of Dust Regional Analysis*
 - 3. *Definition of Dust: Salt Creek Case Study*
 - 4. *Causes of Haze Project*
 - c. Identification and Characterization of Dust Sources
 - 1. *Definition of Dust: Salt Creek Case Study*
 - d. Identify High Priority Dust Sources
 - 1. *Definition of Dust: Salt Creek Case Study*
 - e. Identify Which Sources Have Potential Controls or Mitigations
 - 1. *Definition of Dust: Salt Creek Case Study*
 - 2. *California State Bill SB 656 List of Air District Measures that Reduce Particulate Matter* (Example of an available state resources, other guidance can also be used)
 - f. Identify Available Data Resources and Methods
 - 1. *Definition of Dust*
 - 2. *California State Bill SB 656 List of Air District Measures that Reduce Particulate Matter* (Example of an available state resources, other guidance can also be used)
 - g. Emission reductions due to ongoing air pollution control programs
 - 1. *Fugitive Dust Handbook*
 - 2. *Fine Fraction of Fugitive Dust*
 - 3. *Natural Events Action Plan for Chavez County*
 - h. Mitigation of impacts from construction activities
 - 1. *Definition of Dust: Salt Creek Case Study*
 - 2. *Fugitive Dust Handbook*
 - 3. *Fine Fraction of Fugitive Dust*
 - 4. *Natural Events Action Plan for Chavez County*

- i. Dust Emission Reductions for 2018
 - 1. *Fugitive Dust Handbook*
 - 2. *Dust Definition; Salt Creek Case Study*
 - 3. *EPA Guidance for Tracking Progress Under the Regional Haze Rule*
 - 4. *California State Bill SB 656 List of Air District Measures that Reduce Particulate Matter* (Example of an available state resources, other guidance can also be used)
 - 5. *Control Measure Determinations*
 - 6. *Economic Analysis Framework*
 - j. Enforceability
 - 1. *New Mexico Administrative Code*
 - 2. *New Mexico State Statute*
 - 3. *Compliance*
 - 4. *Other Options*
 - k. Anticipated Net Effect
 - 1. *Definition of Dust: Salt Creek Case Study*
 - 2. *Fugitive Dust Emissions from Wind Erosion*
 - 3. *Fugitive Dust Handbook*
 - iv. Monitoring Strategy
 - a. Need for additional monitoring sites
 - 1. *Causes of Dust*
 - 2. *Dust Definition: Salt Creek Case Study*
 - 3. *Causes of Haze Project*
 - b. Reporting of annual visibility monitoring data
 - 1. *Causes of Haze Project*
 - 2. *Visibility Information Exchange Web System*
- C. Conclusions
 - i. Critic of WRAP Fugitive Dust Forum Tools
 - a. Dust Definition
 - b. Fine Fraction of Fugitive Dust
 - c. Causes of Dust Regional Analysis
 - d. Fugitive Dust Emissions from Wind Erosion
 - e. Fugitive Dust Handbook
 - f. Attribution of Haze
 - g. Modeling
 - ii. Lessons Learned