

ATTACHMENT M



Regional Haze

Stakeholder Outreach Webinar #2

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What we will cover today

- ❑ Overview of Western regional planning (“Storyboard”)
- ❑ Show examples of Class I Area monitor data
- ❑ Update on planning progress of NMED/COA
- ❑ Discuss four-factor analyses of control measures
- ❑ Modeling impacts
- ❑ Solicit feedback from stakeholders



Source Selection Process

- **“Source selection”**
 - Determine which facilities will be subject to analysis of potential new control measures (Four-Factor Analysis)
- **NMED/EHD process based on WRAP guidance**
 - Target key drivers of visibility impairment: SO_2 and NO_x
 - For each Title V facility, calculate the following:
 - Q = reported SO_2 + NO_x emissions (tons, 2016)
 - d = distance (kilometers) to nearest Class I Area
 - Q/d = potential visibility impact of facility
 - Rank all facilities highest to lowest Q/d
 - Identify facilities accounting for 80% of SO_2 + NO_x
 - These facilities are subject to Four-Factor Analysis
 - Minor & Area sources not considered for evaluation



New Mexico Four-Factor Facilities

Title V Facilities w/ Q/d > 5.5	Q/d	Class I area	Company Name
Cunningham Station	7.72	Carlsbad NP	Xcel Energy
Prewitt Escalante Generating Station	26.1	San Pedro Parks WA	Tri-State Generation and Transmission Association
Roswell Compressor Station No9	7.6	Salt Creek WA	Transwestern Pipeline
Mountainair No7 Compressor Station	5.7	Bosque del Apache WA	
Monument Gas Plant	20.4	Carlsbad NP	Targa Midstream Services
Eunice Gas Processing Plant	13.0	Carlsbad NP	
Saunders Gas Plant	11.7	Salt Creek WA	
San Juan Generating Station	461.0	Mesa Verde NP	Public Service Co. of New Mexico
Indian Basin Gas Plant	9.4	Carlsbad NP	Oxy USA
Bitter Lake Compressor Station	50.2	Salt Creek WA	IACX Roswell, LLC
Kutz Canyon Processing Plant	10.3	Mesa Verde NP	Harvest Four Corners, LLC
Harvest Pipeline - San Juan Gas Plant	8.3	Mesa Verde NP	
Jal No3 Gas Plant	20.5	Carlsbad NP	ETC Texas Pipeline, Ltd.
Chaco Gas Plant	28.2	Mesa Verde NP	Enterprise Field Services
Blanco Compressor C & D Station	7.8	Mesa Verde NP	
South Carlsbad Compressor Station	5.9	Carlsbad NP	
Washington Ranch Storage Facility	23.5	Carlsbad NP	El Paso Natural Gas Company
Pecos River Compressor Station	13.9	Carlsbad NP	
Blanco Compressor Station A	5.6	Mesa Verde NP	
Eunice Gas Plant	18.4	Carlsbad NP	DCP Operating Company, LP
Linam Ranch Gas Plant	7.6	Carlsbad NP	DCP Midstream
Artesia Gas Plant	5.7	Carlsbad NP	
Denton Gas Plant	7.6	Salt Creek WA	Davis Gas Processing
Rio Grande Portland Cement Plant*	16.0	Bandelier WA	

*Located in Bernalillo County outside of NMED Jurisdiction.

Four-factor analysis documentation available at:

https://www.env.nm.gov/air-quality/four_factor_analysis-reports/



What is a Four-Factor Analysis?

- Identify additional controls that are technically feasible for equipment that emits ≥ 5 tpy SO_2/NO_x
- Assess the four factors for feasible controls:
 - ▣ Cost of compliance
 - ▣ Time necessary for compliance
 - ▣ Energy & non-air environmental impacts
 - ▣ Remaining useful life of the source
- Calculate cost effectiveness of each control
 - ▣ Expressed as \$ per ton of annual emission reduction achieved
 - ▣ Anticipated cost effective threshold: $\leq \$7,000$ per ton/year
 - ▣ Case by case basis for final determination