

US EPA ARCHIVE DOCUMENT

USDA FOREST SERVICE, ROCKY MOUNTAIN REGION  
PSD PERMIT COMPLETENESS DETERMINATION

SOURCE NAME:

SOURCE LOCATION:

BRIEF DESCRIPTION OF SOURCE, PROCESSES AND EMISSIONS:

I. PREDICTED SOURCE EMISSIONS:

- A. TSP EMISSIONS TONS/YEAR -
- B. PM-10 EMISSIONS TONS/YEAR -
- C. NO<sub>x</sub> EMISSIONS TONS/YEAR
- D. VOC EMISSIONS TONS/YEAR
- E. SO<sub>2</sub> EMISSIONS TONS/YEAR
- F. TOXICS TONS/YEAR -

II. NATIONAL FOREST SYSTEMS LANDS WHICH MAY BE IMPACTED BY  
THE SOURCE:

- A. CLASS I AREAS ON NATIONAL FOREST SYSTEM LANDS  
WHICH MAY BE IMPACTED
  - 1. CLASS I AREAS (NAMES).
  - 2. DISTANCES FROM THE SOURCE TO THE CLASS I  
BOUNDARIES.
- B. SENSITIVE CLASS II AREAS WITHIN NATIONAL FOREST

## BOUNDARIES

### 1. SENSITIVE CLASS II AREAS (NAMES).

### 2. DISTANCES FROM THE SOURCE TO THE SENSITIVE CLASS II BOUNDARIES

2

### C. CLASS I AREAS MANAGED BY OTHER FEDERAL LAND MANAGERS

## III. OTHER AIR POLLUTION SOURCES WITHIN THE REGION OF SOURCE INFLUENCE

### A. MAJOR STATIONARY SOURCES WITHIN THE REGION OF SOURCE INFLUENCE

### B. MINOR STATIONARY SOURCES WITHIN THE REGION OF SOURCE INFLUENCE

### C. AREA SOURCES WITHIN THE REGION OF SOURCE INFLUENCE

### D. PROJECTED SECONDARY GROWTH

## IV. METEOROLOGICAL MONITORING SITES WITHIN THE REGION OF SOURCE INFLUENCE

### A. REPRESENTITIVENESS OF THE SURFACE METEOROLOGICAL DATA TO BOTH THE SOURCE LOCATION AND THE CLASS I AREA (DESCRIBE).

### B. REPRESENTITIVENESS OF THE UPPER AIR METEOROLOGICAL DATA TO BOTH THE SOURCE LOCATION AND THE CLASS I AREA (DESCRIBE).

V. ANALYSIS OF BEST AVAILABLE CONTROL TECHNOLOGY (BACT)

- A. WERE THE BEST POSSIBLE AIR POLLUTION CONTROLS CONSIDERED IN THE TOP-DOWN BACT ANALYSIS FOR ALL POLLUTANTS?
- B. WERE IMPACTS TO CLASS I AREAS OR SENSITIVE CLASS II AREAS CONSIDERED IN SELECTING CONTROL TECHNOLOGY WHICH IS LESS THAN THE BEST POSSIBLE (LAER - LOWEST ACHIEVABLE EMISSIONS RATE)?

	LAER	PROPOSED BACT
TSP	TONS/YEAR -	TONS/YEAR -
PM-10	TONS/YEAR -	TONS/YEAR -
SO <sub>2</sub>	TONS/YEAR -	TONS/YEAR -
NO <sub>x</sub>	TONS/YEAR -	TONS/YEAR -
VOC	TONS/YEAR -	TONS/YEAR -

VI. AMBIENT AIR QUALITY, DEPOSITION, AND VISIBILITY MONITORING

- A. WHAT MONITORING SITES WERE USED TO REPRESENT THE CURRENT AMBIENT CONCENTRATIONS OF THE FOLLOWING POLLUTANTS AT EACH CLASS I AND SENSITIVE CLASS II BOUNDARY?

TSP

PM-10

SO<sub>2</sub>

NO<sub>x</sub>

O<sub>3</sub>

SULFATE

## NITRATE

- B. WHAT VISIBILITY MONITORING SITE WAS USED TO REPRESENT THE CURRENT VISIBILITY CONDITION AT EACH CLASS I AND SENSITIVE CLASS II BOUNDARY?
- C. WAS A QA/QC PLAN DEVELOPED AND FOLLOWED FOR ALL AMBIENT AIR QUALITY MONITORING ACTIVITIES?
- D. EXISTING AND PREDICTED AMBIENT AIR CONCENTRATIONS AND DEPOSITION LOADINGS AT THE CLASS I BOUNDARY (BACKGROUND AND BACKGROUND PLUS THE PROPOSED SOURCE)

## EXISTING PREDICTED

TSP UG/M3 - UG/M3 -  
PM-10 UG/M3 - UG/M3 -

4

SO<sub>2</sub> UG/M3 - UG/M3 -  
NO<sub>x</sub> UG/M3 - UG/M3 -  
VOC UG/M3 - UG/M3 -  
OZONE PPM - PPM -  
SULFATES KG/HA - KG/HA -  
NITRATES KG/HA - KG/HA -

- E. EXISTING AND PREDICTED AMBIENT AIR CONCENTRATIONS AND DEPOSITION LOADINGS AT THE SENSITIVE CLASS II BOUNDARIES (BACKGROUND AND BACKGROUND PLUS THE PROPOSED SOURCE)

## EXISTING PREDICTED

TSP UG/M3 - UG/M3 -  
PM-10 UG/M3 - UG/M3 -  
SO<sub>2</sub> UG/M3 - UG/M3 -  
NO<sub>x</sub> UG/M3 - UG/M3 -

VOC UG/M3 - UG/M3 -  
OZONE PPM - PPM -  
SULFATES KG/HA - KG/HA -  
NITRATES KG/HA - KG/HA -

F. CLASS I INCREMENT ANALYSIS

	BASELINE CONCENTRATION	CLASS I INCREMENT	PREDICTED CONCENTRATION
TSP	UG/M3 -	UG/M3 -	UG/M3 -
S02	UG/M3 -	UG/M3 -	UG/M3 -
NO <sub>x</sub>	UG/M3 -	UG/M3 -	UG/M3 -

VII. AIR QUALITY AND DEPOSITION MODELING

- A. WHAT MODELS WERE USED TO PREDICT AMBIENT AIR QUALITY, ATMOSPHERIC DEPOSITION, AND VISIBILITY FOR CLASS I AREAS AND SENSITIVE CLASS II AREAS? (LIST EACH MODEL USED FOR EACH POLLUTANT ANALYZED)

- B. WERE THE MODELS USED EVALUATED OR APPROVED FOR USE BY EPA, THE STATE, OR THE FOREST SERVICE?

VIII. AIR QUALITY RELATED VALUE ANALYSIS

- A. WHAT SENSITIVE RECEPTORS, IF ANY, WERE ANALYZED FOR EACH AIR QUALITY RELATED VALUE?

1. FLORA
2. FAUNA
3. SOIL
4. WATER
5. ODOR
6. VISIBILITY

- B. EXISTING AND PREDICTED AIR POLLUTION CAUSED CHANGES TO EACH IDENTIFIED SENSITIVE RECEPTOR (SEE TABLE 1 FOR POTENTIAL AIR POLLUTION CAUSED CHANGE FOR SENSITIVE RECEPTORS FOR EACH AIR QUALITY RELATED VALUE).

EXISTING AIR POLLUTION CAUSED CHANGE	PREDICTED AIR POLLUTION CAUSED CHANGE
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1. FLORA
2. FAUNA
3. SOIL
4. WATER
5. ODOR
6. VISIBILITY

- C. WHAT MODELS WERE USED TO DETERMINE THE IMPACT ON EACH SENSITIVE RECEPTOR? (LIST EACH MODEL USED)
- D. WHAT CRITERIA (LIMIT OF ACCEPTABLE CHANGE), IF ANY, WERE USED TO DETERMINE IF THE SOURCE WOULD CAUSE OR CONTRIBUTE TO AN ADVERSE IMPACT ON EACH IDENTIFIED SENSITIVE RECEPTOR.