

### 3.0 EMISSIONS INVENTORY - PERMITTED SOURCES WITHIN STUDY BOUNDARY

The purpose of the cumulative impacts analysis is to present the total impacts from the proposed project, along with all existing anthropogenic sources within the selected source domain as of December 31, 2000, in addition to other reasonably foreseeable developments. Four pollutants; NO<sub>x</sub>, SO<sub>2</sub>, PM<sub>10</sub> and PM<sub>2.5</sub> were inventoried for the cumulative impacts analysis. Sources located within the study area domain were included in the inventory.

This section summarizes state permitted emission sources located within the study domain as evidenced by records reported from Colorado Department of Public Health and Environment and the Wyoming DEQ air permit files. The permitted source inventories prepared for the Continental Divide EIS and the Pinedale Anticline EIS were used as starting points for this inventory. Any change in permit status for sources included in the previous inventories and new sources permitted subsequent to the previous studies were included in the inventory for this project. Data for the permitted sources were obtained from the WDEQ-AQD and CDPHE-APCD permit files. Wyoming permit data was available from the WDEQ-AQD through December 31, 2000. However, permit data for Colorado was available only for sources permitted prior to January 1999, as the permit database utilized by the CDPHE-APCD was discontinued at that time and a replacement has yet to be implemented.

#### 3.1 Criteria for Inventory Inclusion

The permitted source inventory inclusion criteria were as follows:

- ! Source is located within the study domain;
- ! Source was issued a permit after June 1, 1993;
- ! Source began operating after the baseline date of July 1, 1995;
- ! Source began operating before January 1, 2001, and
- ! Source emitted NO<sub>x</sub>, SO<sub>x</sub> or particulate matter.

The permitted source inventories are summarized in Table 3.1. Emission increases and decreases are shown separately. Lists of the permitted sources included in the inventory along with their corresponding emissions are located in Appendix B. Figures 3-1 and 3-2 present the permitted source emission increases and decreases.

TABLE 3.1 - PERMITTED SOURCE INVENTORY

| Permit Category   | NO <sub>x</sub><br>(tons/yr) | SO <sub>2</sub><br>(tons/yr) | PM <sub>10</sub><br>(tons/yr) | PM <sub>2.5</sub><br>(tons/yr) |
|---|------------------------------|------------------------------|-------------------------------|--------------------------------|
| Colorado Permitted Emission Increases<br>(16 sources)                                       | 78                           | 0                            | 298                           | 89                             |
| Wyoming Permitted Emission Increases<br>Reported in Previous Studies (208 sources)          | 4,344                        | 2,689                        | 943                           | 478                            |
| Wyoming Permitted Emission Increases<br>Subsequent to the Previous Studies<br>(107 sources) | 2,589                        | 1,616                        | 869                           | 279                            |
| Total Permitted Emission Increases<br>(331 sources)   | 7,011                        | 4,305                        | 2,110                         | 846                            |
|   |                              |                              |                               |                                |
| Colorado Permitted Emission Decreases<br>(2 sources)  | 0                            | 0                            | (367)                         | (110)                          |
| Wyoming Permitted Emission Decreases<br>Reported in Previous Studies (13 sources)           | (1,131)                      | (557)                        | (325)                         | (149)                          |
| Wyoming Permitted Emission Decreases<br>Subsequent to the Previous Studies<br>(10 sources)  | (646)                        | 0                            | (45)                          | (14)                           |
| Total Permitted Emission Decreases<br>(25 sources)  | (1,777)                      | (557)                        | (737)                         | (273)                          |
|   |                              |                              |                               |                                |
| Net Change In Permitted Emissions   | 5,234                        | 3,748                        | 1,373                         | 573                            |

### 3.2 Naughton Power Plant

A low-NO<sub>x</sub> burner was installed at PacifiCorp's Naughton Unit 3 boiler. The modification resulted in a permitted decrease in NO<sub>x</sub> emissions of 1,000 tons per year. This emission decrease was modeled separately from the other permitted emission decreases so that the effects of the Naughton modification could be evaluated independently.

### 3.3 Excluded Permitted Sources

Permitted sources located within the study domain were excluded from the inventory if they did not meet the inclusion criteria stated in Section 3.1, or if it was reported that the source was no longer in operation. Lists of excluded Colorado and Wyoming permitted sources are contained in Appendix B.

**Figure 3-1**  
**Permitted Emission Increases**



