

Air Pollution Emergency

This plan is designed to prevent the excessive buildup of air pollutants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these pollutants on the health of persons. The plan applies to the entire State of South Dakota.

Episode Criteria

Conditions justifying the proclamation of an air pollution alert, air pollution warning, or air pollution emergency shall be deemed to exist whenever the Director determines that the accumulation of air pollutants in any place is attaining or has attained levels which could, if such levels are sustained or exceeded, lead to a substantial threat to the health of persons. In making this determination, the Director will be guided by the following criteria;

- (a) "Air Pollution Forecast": An internal watch by the Department of Air Pollution Control shall be actuated by a National Weather Service advisory that Atmospheric Stagnation Advisory is in effect or the equivalent local forecast of stagnant atmospheric condition.
- (b) "Alert": The Alert level is that concentration of pollutants at which first stage control actions are to begin. An Alert will be declared when any one of the followings levels is reached at any monitoring site:

SO<sub>2</sub>—800 ug./m<sup>3</sup> (0.3 p.p.m.), 24-hour average.

Particulate—3.0 COHs or 375 ug./m<sup>3</sup>, 24-hour average.

SO<sub>2</sub> and particulate combined—product of SO<sub>2</sub> p.p.m., (24-hour average), and COHs equal to 0.2 or product of SO<sub>2</sub>—ug./m<sup>3</sup>, (24-hour average), and particulate ug./m<sup>3</sup>, 24-hour average equal to 65 x 10<sup>3</sup>.

and meteorological conditions are such the pollutant concentrations can be expected to remain at the above levels for twelve (12) or more hours or increase unless control actions are taken.

- (c) "Warning": The warning level indicates that air quality is continuing to degrade and that additional control actions are necessary. A warning will be declared when any one of the following levels is reached at any monitoring site:

SO<sub>2</sub>—1,600 ug./m<sup>3</sup> (0.6 p.p.m.), 24-hour average.

Particulate—5.0 COHs or 625 ug./m<sup>3</sup>, 24-hour average.

SO<sub>2</sub> and particulate combined—product of SO<sub>2</sub> p.p.m., (24-hour average) and COHs equal to 0.8 or product of SO<sub>2</sub> ug./m<sup>3</sup>, (24-hour average) and particulate ug./m<sup>3</sup>, 24-hour average equal to 261 x 10<sup>3</sup>.

and meteorological conditions are such that pollutant concentrations can be expected to remain at the above levels for twelve (12) or more hours or increase unless control actions are taken.

- (d) "Emergency": The emergency level indicates that air quality is continuing to degrade to a level that should never be reached and that the most stringent control actions are necessary. An emergency will be declared when any one of the following levels is reached at any monitoring site:

SO<sub>2</sub>—2,100 ug./m<sup>3</sup> (0.8 p.p.m.), 24-hour average.

Particulate—7.0 COHs or 875 ug./m<sup>3</sup>, 24-hour average.

SO<sub>2</sub> and particulate combined—product of SO<sub>2</sub> p.p.m., (24-hour average) and COHs equal to 1.2 or product of SO<sub>2</sub> ug./m<sup>3</sup>, (24-hour average) and particulate ug./m<sup>3</sup>, (24-hour average) equal to 393 x 10<sup>3</sup>.

and meteorological conditions are such that this condition can be expected to continue for twelve (12) or more hours.

- (e) "Termination": Once declared, any status reached by application of these criteria will remain in effect until the criteria for that level are no longer met. At such time, the next lower status will be assumed.

When any of the above episode criteria levels are reached the public will be notified in the form of a press release to all news media.

Sampling stations and procedures for determining when criteria levels are reached are outlined in the Air Quality Surveillance Section.

In attainment of the emergency criteria level, the Director shall order any sources contributing to the occurrence of the level to reduce or discontinue emissions in accordance with Chapter 34-16A of South Dakota Compiled Laws.