## Chapter NR 493

## AIR POLLUTION EPISODE LEVELS AND EPISODE **EMISSION CONTROL ACTION PROGRAMS**

NR 493.01 NR 493.04 Applicability; purpose. Emission control action programs. NR 493.02

NR 493.05 Definitions. Episode orders. NR 493.03 Episode levels.

Note: Corrections made under s. 13.93 (2m) (b) 7., Stats., Register, January, 1997,

NR 493.01 Applicability; purpose. (1) APPLICABILITY. This chapter applies to all air contaminant sources and to their owners and operators.

(2) PURPOSE. This chapter is adopted under ss. 285.11, 285.13 and 285.85, Stats., to establish emergency episode level criteria and to establish programs and procedures for the abatement of such conditions.

Note: This chapter generally follows the federal guidance contained in 40 CFR part 51, Appendix L.

**History:** Cr. Register, September, 1986, No. 369, eff. 10–1–86; am. (1), Register, May, 1992, No. 437, eff. 6–1–92.

**NR 493.02 Definitions.** The definitions contained in ch. NR 400 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

- (1) "Air pollution episode levels" means levels of air quality which are so degraded as to pose imminent danger to public health:
- (a) "Alert": The alert level is that concentration of one or more air contaminants at which the first stage control actions begin.
  - (b) "Warning": The warning level indicates air quality is con-

tinuing to degrade and that additional control actions are neces-

(c) "Emergency": The emergency level indicates that the air quality is continuing to degrade to a level which should never be reached and that the most stringent control actions are necessary.

**History:** Cr. (intro.) and (2), (1) renum. from NR 154.01 (10), Register, September, 1986, No. 369, eff. 10–1–86; am. (intro.), r. (2), Register, December, 1995, No. 480, eff. 1–1–96.

NR 493.03 Episode levels. (1) AIR EPISODE ADVISORY. The department may issue an Air Pollution Episode advisory to the general public if any air contaminant or combination of air contaminants reaches the respective level of concentration specified in Table 1 at any monitoring site.

(2) AIR EPISODE LEVELS. The department shall declare an Air Pollution Episode Level at the "Alert", "Warning" or "Emergency" stage if any air contaminant or combination of air contaminants reaches the respective level of concentration specified in Table 1 at any monitoring site and if meteorological conditions are such that the concentrations of the air contaminant can be expected to remain at or above that level for 12 or more hours, or in the case of ozone, to recur the following day at the same or a higher level, unless control actions are taken.

**History:** Cr. Register, July, 1985, No. 355, eff. 8–1–85; renum. from NR 493.01, Register, September, 1986, No. 369, eff. 10–1–86.

Table 1 **Episode Stage Criteria For Air Contaminants** 

Air Contaminants	Sampling	Averaging	Alert	Warning	Emergency
	Period	Period			
Particulate Matter	24-hours	Block average	375 μg/m <sup>3</sup>	625 μg/m <sup>3</sup>	875 μg/m <sup>3</sup>
Sulfur Dioxide	1-hour	Any hour	$1870 \ \mu g/m^3$	$3730  \mu g/m^3$	4990 $\mu$ g/m <sup>3</sup>
			(0.70 ppm)	(1.40 ppm)	(1.90 ppm)
	24-hours	Continuous running	$800 \mu g/m^3$	$1600 \mu g/m^3$	$2100 \mu\text{g/m}^3$
		average	(0.30 ppm)	(0.60 ppm)	(0.80 ppm)
Product of Particulate Matter and Sulfur Dioxide	24-hours	Block average	65,000 (µg/m <sup>3</sup> ) <sup>2</sup>	$261,000 \ (\mu g/m^3)^2$	393,000 (µg/m <sup>3</sup> ) <sup>2</sup>
Carbon Monoxide	8-hours	Continuous running	17 mg/m <sup>3</sup>	34 mg/m <sup>3</sup>	46 mg/m <sup>3</sup>
		average	(15 ppm)	(30 ppm)	(40 ppm)
Ozone (for volatile	1-hour	Any hour	0.20 ppm	0.40 ppm	0.50 ppm
organic compounds)			$(400  \mu g/m^3)$	$(800  \mu g/m^3)$	$(1000  \mu g/m^3)$
Nitrogen Dioxide	1-hour	Any hour	$1130 \ \mu g/m^3$	$2260 \mu \text{g/m}^3$	$3000  \mu g/m^3$
			(0.60 ppm)	(1.20 ppm)	(1.60 ppm)

#### NR 493.04 Emission control action programs.

- (1) Any person responsible for the operation of a direct source which emits 0.25 tons or more per day of any air contaminant for which air standards have been adopted shall prepare emission control action programs, consistent with good industrial practice and safe operating procedures, for reducing the emission of the air contaminants into the outdoor atmosphere during periods of an AIR POLLUTION ALERT, AIR POLLUTION WARNING, or AIR POLLUTION EMERGENCY declared under s. NR 493.03 (2). Emission control action programs shall be designed to reduce or eliminate emissions of air contaminants into the outdoor atmosphere in accordance with the requirements set forth in Tables 2 to 6.
- **(2)** Emission control action programs as required under sub. (1) shall be in writing and show the source of air contamination, the approximate amount of reduction of contaminants, the

- approximate time required to put the program into effect, a brief description of the manner in which the reduction will be achieved during each stage of an air pollution episode declared under s. NR 493.03 (2), and such other information as the department deems
- (3) The emission control action programs as required by sub. (1) shall be made available at all times on the premises of the operation to any person authorized to enforce the provisions of the department's episode procedure. A brief written description of the overall emission control action program, and the details of the program which affect specific functions of the overall operation, shall be posted at the locations where the functions are carried out.
- (4) The emission control action programs as required by sub. (1) shall be submitted to the department upon request within 60 days of the receipt of the request; the emission control action programs shall be subject to review and approval by the department.

If, in the opinion of the department, an emission control action program does not effectively carry out the requirements set forth in Tables 2 to 6, the department may disapprove the emission control action program, state its reason for disapproval, and order the preparation of an amended emission control action program within the time period specified in the order. If the person responsible fails within the time period specified in the order to submit an amended emission control action program which, in the opinion of the department, meets the requirements of this chapter, the department may revise the emission control action program. The revised program will thereafter be the emission control action program which the person responsible shall put into effect upon declaration of an air pollution episode by the secretary.

**History:** Renum. from NR 154.20 (2) and am. Register, July, 1985, No. 355, eff. 8–1–85; renum. from NR 493.02, Register, September, 1986, No. 369, eff. 10–1–86; am. (2) and (3), Register, December, 1995, No. 480, eff. 1–1–96; correction in (1) and (4) made under s. 13.93 (2m) (b) 7., Stats., Register, December, 1995, No. 480; am. (2), Register, January, 1997, No. 493, eff. 2–1–97.

- **NR 493.05 Episode orders.** The following are orders which may be appropriate for use by the secretary under s. 285.85, Stats., upon declaration under s. NR 493.03 (2) that an air pollution episode exists for any air contaminant for which an air standard has been adopted or for any combination of air contaminants:
- (1) AIR POLLUTION ALERT. (a) Any air contaminant or combination of air contaminants. Any person responsible for the operation of a source of air contamination as set forth in s. NR 493.04 (1) shall take all AIR POLLUTION ALERT actions as required for such source of air contamination, and shall particularly put into effect the emission control action program for an AIR POLLUTION ALERT declared under s. NR 493.03 (2).
- (b) Particulate matter. 1. No person may open burn any tree wastes, vegetation, refuse, or debris in any form.
- 2. The use of incinerators for the disposal of any form of solid waste shall be limited to the hours between 12:00 noon and 4:00 p.m.
- 3. Persons operating fuel-burning equipment which requires intermittent boiler lancing or soot blowing shall perform such operations, to the maximum extent possible, between the hours of 12:00 noon and 4:00 p.m.
- (c) Nitrogen oxides. 1. No person may open burn any tree waste, vegetation, refuse, or debris in any form.
- 2. The use of incinerators for the disposal of any form of solid waste shall be limited to the hours between 12:00 noon and 4:00 p.m.
- (2) AIR POLLUTION WARNING. (a) Any air contaminant or combination of air contaminants. Any person responsible for the operation of a source of air contamination as set forth in s. NR 493.04 (1) shall take all AIR POLLUTION WARNING actions as required for such source of air contamination, and shall particularly put into effect the emission control action program for an AIR POLLUTION WARNING declared under s. NR 493.03 (2).
- (b) Particulate matter. 1. No person may open burn any tree waste, vegetation, refuse, or debris in any form.
- No person may use incinerators for the disposal of any form of solid waste or liquid waste.
- 3. Persons operating fuel-burning equipment which requires intermittent boiler lancing or soot blowing shall perform such operations, to the maximum extent possible, between the hours of 12:00 noon and 4:00 p.m.
- (c) Nitrogen oxides. 1. No person may open burn any tree waste, vegetation, refuse, or debris in any form.
- 2. No person may use incinerators for the disposal of any form of solid waste or liquid waste.
- (3) AIR POLLUTION EMERGENCY. (a) Any air contaminant or combination of air contaminants. 1. Any person responsible for

- the operation of a source of air contamination set forth in s. NR 493.04 (1) shall take all AIR POLLUTION EMERGENCY actions as required for such source of air contamination, and shall particularly put into effect the emission control action program for an AIR POLLUTION EMERGENCY declared under s. NR 493.03 (2).
- 2. All manufacturing establishments, including those too small to be included under s. NR 493.04 (1), shall institute such action as will result in maximum reduction of air contaminants from their operations by ceasing, curtailing, or postponing operations which emit air contaminants to the extent possible without causing injury to persons or damage to equipment.
- 3. All places of employment described in this subdivision shall immediately cease operations except for those operations necessary to provide emergency services or products or to prevent personal injury or property loss or damage:
  - a. Mining and quarrying of nonmetallic minerals.
  - b. All contract construction work.
- c. Wholesale trade establishments which are primarily engaged in selling merchandise to retailers, to industrial, commercial, institutional or professional users, or to other wholesalers, or acting as agents in buying merchandise for or selling merchandise to such persons or companies.
- d. All offices of local, county, and state government and any other public body, except for those offices providing emergency services such as fire or police protection, medical services, or protection of public health and the environment, and those offices that must continue to operate in order to enforce the requirements of this order.
- e. All retail trade establishments, except pharmacies and stores primarily engaged in the sale of food.
- f. Banks, credit agencies, securities and commodities brokers, dealers, exchanges and services, offices of insurance carriers, agents and brokers, and real estate offices.
- g. Wholesale and retail dry cleaners, photographic studios, beauty shops, barber shops, shoe repair shops and other establishments providing personal services.
- h. Business services such as advertising offices, consumer credit reporting agencies, copying, duplicating, mailing, stenographic services, equipment rental services and commercial testing laboratories.
  - i. Auto body shops, vehicle paint shops and car washes.
- j. Establishments rendering amusement and recreation services, including motion picture theaters.
- k. Elementary and secondary schools, colleges, universities, professional schools, junior colleges, vocational schools, and public and private libraries.
- 4. No person may open burn any tree waste, vegetation, refuse or debris in any form.
- No person may use incinerators for the disposal of any form of solid or liquid waste.
- No person may use a motor vehicle except as necessary to provide or obtain emergency services or products or to prevent personal injury or property loss or damage.
- (4) EPISODE ACTION. When the secretary determines that an air pollution episode condition exists at one or more monitoring sites solely because of emissions from a limited number of sources, the secretary may order such source or sources to put into effect the emission control action programs which are applicable for each episode stage.

**History:** Renum. from NR 154.20 (3) and am. Register, July, 1985, No. 355, eff. 8–1–85; renum. from NR 493.03, Register, September, 1986, No. 369, eff. 10–1–86; am. (3) (a) 2. and 3. intro., 2., 4., g. and h., 6. and Table 5, r. and recr. (3) (a) 3. i., Register, May, 1992, No. 437, eff. 6–1–92.

Table 2 **Emission Reduction Requirements For Particulate Matter** 

	Emission Reduction Require	ments For Particulate Matter	
Source of Air Contamination	Air Pollution Alert	Air Pollution Warning	Air Pollution Emergency
(1) Coal or oil-fired electric power	(a) 1. Substantial reduction of particu-	(b) 1. Maximum reduction of particu-	(c) 1. Maximum reduction of particu-
generating facilities.	lates by utilization of fuels having lowest	lates by utilization of fuels having lowest	lates by utilization of fuels having lowes
	available ash content.  2. Maximum utilization of midday	available ash content.  2.Maximum utilization of midday	<ul><li>available ash content.</li><li>2. Maximum utilization of midday</li></ul>
	(12:00 Noon to 4:00 p.m.) atmospheric	(12:00 Noon to 4:00 p.m.) atmospheric	(12:00 Noon to 4:00 p.m.) atmospheric
	turbulence for boiler lancing and soot	turbulence for boiler lancing and soot	turbulence for boiler lancing and soot
	blowing.	blowing.	blowing.
	3. Substantial reduction of particulates	3. Maximum reduction of particulates by	3. Maximum reduction of particulates by
	by diverting electric power generation to	diverting electric power generation to	diverting electric power generation to
	facilities outside of Alert Area	facilities outside of Warning Area.	facilities outside of Emergency Area.
(2) Coal or oil–fired process steam	(a) 1.Substantial reduction of particu-	(b) 1. Maximum reduction of particu-	(c) 1. Maximum reduction of particu-
generating facilities.	lates by utilization of fuels having lowest	lates by utilization of fuels having lowest available ash content.	lates by reducing heat and steam
	available ash content.	avanable asii content.	demands to absolute necessities consis- tent with preventing equipment damage.
	2. Maximum utilization of midday	2. Maximum utilization of midday	Maximum utilization of midday
	(12:00 Noon to 4:00 p.m.) atmospheric	(12:00 Noon to 4:00 p.m.) atmospheric	(12:00 Noon to 4:00 p.m.) atmospheric
	turbulence for boiler lancing and soot	turbulence for boiler lancing and soot	turbulence for boiler lancing and soot
	blowing.	blowing.	blowing.
	3. Reduction of steam load demands	3. Reduction of steam load demands	3. Taking the action called for in the
	consistent with continuing plant opera-	consistent with continuing plant opera-	emergency portion of the emission con-
	tions.	tions.	trol action program.
		4. Making ready for use a plan of action	
(2) Manufacturing and	(a) 1. Contraction and actions of most on	to be taken if an emergency develops.	(-) 1 Elimination of maticulate form
(3) Manufacturing, processing, and mining industries.	(a) 1. Substantial reduction of particulates from manufacturing operations by	(b) 1. Maximum reduction of particulates from manufacturing operations by,	<ul> <li>(c) 1. Elimination of particulates from manufacturing operations by ceasing,</li> </ul>
OR	curtailing, postponing, or deferring pro-	if necessary, assuming reasonable eco-	curtailing, postponing or deferring pro-
Other persons required by the	duction and allied operations.	nomic hardship by postponing produc-	duction and allied operations to the
department to prepare emission		tion and allied operations.	extent possible without causing injury to
control action programs.			persons or damage to equipment.
	2. Maximum reduction of particulates by	2. Maximum reduction of particulates by	2. Elimination of particulates from trade
	deferring trade waste disposal opera-	deferring trade waste disposal opera-	waste disposal processes which emit
	tions which emit particles, gases, vapors	tions which emit particles, gases, vapors	particles, gases, vapors or malodorous
	or malodorous substances.	or malodorous substances.	substances.
	<ol><li>Reduction of heat load demands for processing consistent with continuing</li></ol>	<ol><li>Reduction of heat load demands for processing consistent with continuing</li></ol>	<ol><li>Maximum reduction of heat load demands for processing.</li></ol>
	plant operations.	plant operations.	demands for processing.
(4) Refuse disposal operations.	(a) 1. Maximum reduction of particulates by prevention of open burning.	(b) 1. Maximum reduction of particulates by eliminating open burning.	(c) 1. Maximum reduction of particulates by eliminating open burning.
	2. Substantial reduction of particulates	2.Complete elimination of the use of	2. Complete elimination of the use of
	by limiting burning of refuse in incinera-	incinerators.	incinerators.
	tors to the hours between 12:00 Noon		
	and 4:00 p.m.		
		ole 3 irements For Sulfur Oxides	
Source of Air Contamination	Air Pollution Alert	Air Pollution Warning	Air Pollution Emergency
Source of All Containination	All I offution Alen	An Fondion warning	An Tonuton Emergency
(1) Coal or oil-fired electric power	(a) 1. Substantial reduction of sulfur	(b) 1. Maximum reduction of sulfur	(c) 1. Maximum reduction of sulfur
generating facilities.	dioxide by utilization of fuels having	dioxide by utilization of fuels having	dioxide by utilization of fuels having
	lowest available sulfur content.	lowest available sulfur content.	lowest available sulfur content.
	2. Substantial reduction of sulfur dioxide	2.Maximum reduction of sulfur dioxide	2. Maximum reduction of sulfur dioxide
	by diverting electric power generation to	by diverting electric power generation to	by diverting electric power generation to
(2) (2) 1 (1) 5	facilities outside of Alert Area.	facilities outside of Warning Area.	facilities outside of Emergency Area.
(2) Coal or oil-fired process steam	(a) 1. Substantial reduction of sulfur	(b) 1. Maximum reduction of sulfur	<ul><li>(c) 1.Maximum reduction of sulfur diox- ide by reducing heat and steam demands</li></ul>
generating facilities.	dioxide by utilization of fuels having lowest available sulfur content.	dioxide by utilization of fuels having the lowest available sulfur content.	to absolute necessities consistent with
	ost a talladio salitai content.	250 a validade Salitai Contont.	preventing equipment damage.
	2. Reduction of steam load demands	2. Reduction of steam load demands	2. Taking the action called for in the
	consistent with continuing plant opera-	consistent with continuing plant opera-	emergency portion of the emission con-
	tions.	tions.	trol action programs.
		3. Reduction of heat load demands for	
		processing consistent with continuing	
		plant operations.	

# WISCONSIN ADMINISTRATIVE CODE

# Table 3 (continued) Emission Reduction Requirements For Sulfur Oxides

Source of Air Contamination	Air Pollution Alert	Air Pollution Warning	Air Pollution Emergency
(3) Manufacturing and processing	(a) 1. Substantial reduction of sulfur	(b) 1. Maximum reduction of sulfur	(c) 1. Elimination of sulfur dioxide from
industries.	dioxide from manufacturing operations	dioxide from manufacturing operations	manufacturing operations by ceasing,
OR	by curtailing, postponing, or deferring	by, if necessary, assuming reasonable	curtailing, postponing or deferring pro-
Other persons required by the	production and allied operations.	economic hardship by postponing pro-	duction and allied operations to the
department to prepare emission		duction and allied operations.	extent possible without causing injury to
control action programs.			persons or damage to equipment.
	2. Maximum reduction of sulfur dioxide	2. Maximum reduction of sulfur dioxide	2. Elimination of sulfur dioxide from
	by deferring trade waste disposal opera-	by deferring trade waste disposal opera-	trade waste disposal processes which
	tions which emit particles, gases, vapors	tions which emit particles, gases, vapors	emit particles, gases, vapors or malodor-
	or malodorous substances.	or malodorous substances.	ous substances.
	3. Reduction of heat load demands for	3. Reduction of heat load demands for	3. Maximum reduction of heat load
	processing consistent with continuing	processing consistent with continuing	demands for processing.
	plant operations.	plant operations.	

Table 4
Emission Reduction Requirements For Nitrogen Oxides

Source of Air Contamination	Air Pollution Alert	Air Pollution Warning	Air Pollution Emergency
(1) Steam–electric power generating facilities.	(a) 1. Substantial reduction of nitrogen oxides by utilization of fuel which results in the formation of less air con- taminant.	(b) 1. Maximum reduction of nitrogen oxides by utilization of fuel which results in the formation of the least amount of air contaminant.	(c) Maximum reduction of nitrogen oxides by diverting electric power gen- eration to facilities outside of Emer- gency Area.
	2. Substantial reduction of nitrogen oxides by diverting electric power generation to facilities outside of Alert Area.	2. Maximum reduction of nitrogen oxides by diverting electric power generation to facilities outside of Warning Area.	
(2) Process steam generating facilities.	(a) 1. Substantial reduction of nitrogen oxides by utilization of fuel which results in the formation of less air con- taminant.	(b) 1. Maximum reduction of nitrogen oxides by utilization of fuel which results in the formation of less air con- taminant.	(c) Maximum reduction of nitrogen oxides by reducing heat and steam demands to absolute necessities consis- tent with preventing equipment damage.
	2. Reduction of steam load demands consistent with continuing plant operations.	<ul><li>2. Reduction of steam load demands consistent with continuing plant operations.</li><li>3. Making ready for use a plan of action</li></ul>	
		to be taken if an emergency develops.	
(3) Manufacturing and processing industries.  OR  Other persons required by the department to prepare emission control action programs.	(a) 1. Substantial reduction of nitrogen oxides from manufacturing operations by curtailing, postponing, or deferring production and allied operations.	(b) 1. Maximum reduction of nitrogen oxides from manufacturing operations by, if necessary, assuming reasonable economic hardship by postponing, production and allied operations.	(c) 1. Elimination of nitrogen oxides from manufacturing operations by ceas- ing, curtailing, postponing, or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment.
	2. Maximum reduction of nitrogen oxides by deferring trade waste disposal operations which emit particles, gases, vapors or malodorous substances.	2. Maximum reduction of nitrogen oxides by deferring trade waste disposal operations which emit particles, gases, vapors or malodorous substances.	2. Elimination of nitrogen oxides from trade waste disposal processes which emit particles, gases, vapors or malodor- ous substances.
	3. Reduction of heat load demands for processing consistent with continuing plant operations.	3. Reduction of heat load demands for processing consistent with continuing plant operations.	3. Maximum reduction of heat load demands for processing.
(4) Stationary internal combustion engines.	(a) Reduction of power demands for pumping consistent with continuing operations.	(b) 1. Reduction of power demands for pumping consistent with continuing operations.	(c) 1. Maximum reduction of nitrogen oxides by reducing power demands to absolute necessities consistent with per- sonnel safety and preventing equipment damage.
		2. Maximum reduction of nitrogen oxides by utilization of fuels or power source which results in the formation of less air contaminant.	2. Maximum reduction of nitrogen oxides by utilization of fuels or power source which results in the formation of less air contaminant.

# DEPARTMENT OF NATURAL RESOURCES

Table 5
Emission Reduction Requirements For Volatile Organic Compounds For Control Of Ozone

Source of Air Contamination	Air Pollution Alert	Air Pollution Warning	Air Pollution Emergency
(1) Petroleum products storage and distribution.	(a) Substantial reduction of volatile organic compounds by curtailing, post-poning, or deferring transfer operations.	(b) Maximum reduction of volatile organic compounds by assuming reasonable economic hardship by postponing transfer operations.	(c) Elimination of volatile organic com- pounds by curtailing, postponing, or deferring transfer operations to the extent possible without causing damage to equipment.
(2) Surface coating and preparation.	(a) Substantial reduction of volatile organic compounds by curtailing, post- poning, or deferring surface preparation and coating application operations.	(b) Maximum reduction of volatile organic compounds by assuming reasonable economic hardship by postponing surface preparation and coating application operations.	(c) Elimination of volatile organic com- pounds by curtailing, postponing, or deferring surface preparation and coat- ing application operations to the extent possible without causing damage to equipment.
(3) Manufacturing and processing industries.  OR  Other persons required by the department to prepare emission control action programs.	(a) Substantial reduction of volatile organic compounds from manufacturing operations by curtailing, postponing, or deferring production and allied operations.	(b) Maximum reduction of volatile organic compounds from manufacturing operations by, if necessary, assuming reasonable economic hardship by postponing production and allied operations.	(c) Elimination of volatile organic com- pounds from manufacturing operations by ceasing, curtailing, postponing, or deferring production and allied opera- tions to the extent possible without caus- ing injury to persons or damage to equip- ment.

 ${\bf Table~6} \\ {\bf Emission~Reduction~Requirements~For~Carbon~Monoxide}$ 

Source of Air Contamination	Air Pollution Alert	Air Pollution Warning	Air Pollution Emergency
(1) Manufacturing industries.  OR  Other persons required by the department to prepare emission control action programs.	(a) Substantial reduction of carbon mon- oxide from manufacturing operations by curtailing, postponing, or deferring pro- duction and allied operations.	(b) Maximum reduction of carbon monoxide from manufacturing operations by, if necessary, assuming reasonable economic hardship by postponing production and allied operations.	(c) Elimination of carbon monoxide from manufacturing operations by ceas- ing, curtailing, postponing or deferring production and allied operations to the extent possible without causing injury to persons or damage to equipment.
(2) Refuse disposal operations.	(a) Maximum reduction of carbon monoxide by eliminating open burning.	(b) Maximum reduction of carbon monoxide by eliminating open burning.	(c) Maximum reduction of carbon monoxide by eliminating open burning.