

1 Pollution Control Agency

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3 Adopted Amendments to 6 MCAR S 4.0001 Reducing Ambient Air  
4 Quality Standards

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6 Rules as Adopted

7 6 MCAR S 4.0001 Ambient air quality standards.

8 A. The "primary" ambient air quality standards are levels of  
9 air pollutants above which, on the basis of present knowledge,  
10 public health hazards or impairment may be produced. The  
11 "secondary" ambient air quality standards are levels established  
12 to protect the public welfare from any known or anticipated  
13 adverse effects, such as injury to agricultural crops and  
14 livestock, damage to or deterioration of property, annoyance and  
15 nuisance of persons, or hazards to air and ground transportation.

16 Definitions. For the purpose of this rule, the following terms  
17 have the meanings given them.

18 1. "Primary ambient air quality standards" or "primary  
19 standards" mean levels established to protect the public health  
20 from adverse effects. The adverse effects that the standards  
21 should protect against include acute or chronic subjective  
22 symptoms and physiological changes that are likely to interfere  
23 with normal activity in healthy or sensitive individuals or to  
24 interfere unreasonably with the enjoyment of life or property.

25 2. "Secondary ambient air quality standards" or  
26 "secondary standards" mean levels established to protect the  
27 public welfare from any known or anticipated adverse effects,  
28 such as injury to agricultural crops and livestock, damage to or  
29 deterioration of property, annoyance and nuisance of persons, or  
30 hazards to air and ground transportation.

31 B.1. No person shall emit any pollutant in such an amount or  
32 in such a manner as to cause or contribute to a violation of any  
33 ambient air quality standard, established in Part E of this  
34 rule. The ambient air means that portion of the atmosphere,  
35 external to buildings, to which the general public has access  
36 beyond such person's property line, provided however, that in

OCT 29, 1982

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1 the event the general public has access to the person's property  
 2 or portion thereof, the ambient air quality standards shall  
 3 apply in those locations. The general public shall not include  
 4 employees, trespassers or other categories of people who have  
 5 been directly authorized by the property owner to enter or  
 6 remain on the property for a limited period of time and for a  
 7 specific purpose.

8 ~~2-~~ C. Enforcement; restrictions. The requirement  
 9 specified in subparagraph B.1- shall apply applies without  
 10 respect to whether emission rules stated in other air pollution  
 11 control rules of the agency are also being violated. However,  
 12 in enforcing the ambient air quality standards specified in this  
 13 rule, the agency shall not seek payment of a civil or criminal  
 14 penalty from a person to or with whom a permit or stipulation  
 15 agreement has been issued or entered into by the agency if and  
 16 only if:

17 a- 1. that permit or stipulation agreement establishes  
 18 emission limitations or standards of performance for the  
 19 pollutant or precursor thereof for which there is an ambient air  
 20 quality standard which has been violated; and,

21 b- 2. the person to or with whom the permit or  
 22 stipulation agreement has been issued or entered into by the  
 23 agency was in compliance with the corresponding emission  
 24 limitations and standards of performance at the time of the  
 25 violation of the ambient air quality standard.

26 ~~3-~~ D. Notwithstanding B-2- C., any violations of the  
 27 ambient air quality standards shall constitute grounds for the  
 28 modification or revocation of a permit, for action by the agency  
 29 to amend a stipulation agreement, or for other enforcement  
 30 action by the agency to further require reduction or control of  
 31 that person's emissions.

32 ~~E-1-~~ E. Measurement methodology, except for hydrogen sulfide.  
 33 For all ambient air quality standards except hydrogen sulfide,  
 34 measurements made to determine compliance with the standards  
 35 shall be performed as set forth in:

36 a- 1. 40 Code of Federal Regulations C.F.R. Part 507-

1 National Primary and Secondary Ambient Air Quality Standards  
2 (1981), or,

3 ~~b. 2. 40 Code of Federal Regulations C.F.R. Part 53--~~  
4 Ambient Air Monitoring Reference and Equivalent Methods (1981),  
5 and,

6 ~~e. 3. 40 Code of Federal Regulations C.F.R. Part 58--~~  
7 Ambient Air Quality Surveillance (1981).

8 ~~E-2- F. Measurement methodology for hydrogen sulfide. For~~  
9 hydrogen sulfide, measurements made to determine compliance with  
10 the standards shall be performed in accordance with any  
11 measurement method approved by the director. The director shall  
12 approve a measurement method if the director finds:

13 a. that the method demonstrates acceptable where the  
14 sensitivity, precision, accuracy, response time and interference  
15 levels as related to the standard, of the method are comparable  
16 to that of the measurement methods for the other pollutants  
17 described in E.; and

18 b. that when the person seeking to take the measurement  
19 has developed and submitted to the agency an acceptable a  
20 quality assurance plan that provides operational procedures for  
21 each of the activities described in Code of Federal Regulations  
22 1981, title 40, part 58, appendix A.2.2, Quality Assurance  
23 Requirements for State and Local Air Monitoring Stations.

24 D. G. Time of compliance. The state secondary ambient air  
25 quality standards for ozone and sulfur dioxide and ozone, that  
26 are more restrictive than the state primary ambient air quality  
27 standards, shall be attained as expeditiously as practicable but  
28 in no case later than December 31, 1986 1984.

29 E. H. State ambient air quality standards. Exhibit 6 MCAR S  
30 4.0001 H.-1. contains the state ambient air quality standards.

31

32 Exhibit 6 MCAR S 4.0001 H.-1.  
33 State Ambient Air Quality Standards

34

35 Pollutant/

36 Air Primary Secondary

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1	Contaminant	Standard	Standard	Remarks
2				
3	1- Hydrogen	0.05 ppm by		1/2 hr. average
4	Sulfide	volume (70.0		not to be exceeded
5		micrograms per		over 2 times per
6		cubic meter)		yr.
7				
8		0.03 ppm by		1/2 hr. average
9		volume (42.0		not to be exceeded
10		micrograms per		over 2 times in any
11		cubic meter)		5 consecutive days
12				
13	2- Ozone	<del>0-10</del> 0.12	<del>0-10</del> 0.12	the standard is
14		ppm by	ppm by	attained when the
15		volume (200	volume (200	expected number of
16		235 micro-	235 micro-	days per calendar
17		grams per	grams per	year with maximum
18		cubic meter)	cubic meter)	hourly average
19				concentrations
20				above the standard
21				is equal to or
22				less than one, as
23				determined by 40
24				C.F.R. Part 50,
25				Appendix H--In-
26				terpretation of
27				the National Am-
28				bient Air Quality
29				Standards for
30				Ozone (1981)
31				-----
32	3- Carbon	9 ppm by	9 ppm by	maximum 8 hr. con-
33	Monoxide	volume (10	volume (10	centration not to
34		milligrams	milligrams	be exceeded more
35		per cubic	per cubic	than once per yr.
36		meter)	meter)	

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30 ppm by  
volume (35  
milligrams  
per cubic  
meter)

30 ppm by  
volume (35  
milligrams  
per cubic  
meter)

maximum 1 hr. con-  
centration not to  
be exceeded more  
than once per yr.

4- Hydro-  
carbons  
0.24 ppm by  
volume (160  
micrograms  
per cubic  
meter)

0.24 ppm by  
volume (160  
micrograms  
per cubic  
meter)

maximum 3 hr. con-  
centration (6 to 9  
a.m.) not to be  
exceeded more  
than once per yr-  
year, corrected for  
----  
methane

5- Sulfur  
Dioxides  
0.03 ppm by  
volume (80  
micrograms  
per cubic  
meter) (0.03  
ppm by volume)

0.02 ppm  
by volume  
(60 micro-  
grams per  
cubic meter) (0.02 ppm  
by volume)

maximum annual  
arithmetic mean

0.14 ppm by  
volume (365  
micrograms  
per cubic  
meter) (0.14  
ppm by volume)

0.14 ppm by  
volume (365  
micrograms  
per cubic  
meter) (0.14  
ppm by volume)

maximum 24 hr.  
concentration  
not to be ex-  
ceeded more  
than once  
per yr.

0.35 ppm by  
volume (915  
micrograms  
per cubic  
meter)

0.35 ppm by  
volume (915  
micrograms  
per cubic  
meter) (0.35  
ppm by volume)

maximum 3  
hr. concen-  
to be  
exceeded  
more than once  
per yr-


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1 year in  
 -----  
 2 Air Quality  
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 3 Control Regions  
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 4 127, 129, 130,  
 -----  
 5 and 132 as  
 -----  
 6 set forth in 40  
 -----  
 7 C.F.R. Part 81,  
 -----  
 8 Designations of  
 -----  
 9 Air Quality  
 -----  
 10 Control Regions  
 -----  
 11 (1981)  
 -----

13 1300 micro- maximum 3 hour  
 -----  
 14 grams per concentration  
 -----  
 15 cubic meter not to be  
 -----  
 16 (0.5 ppm by exceeded more  
 -----  
 17 volume) than once per  
 -----  
 18 year in Air  
 -----  
 19 Quality Control  
 -----  
 20 Regions 128,  
 -----  
 21 131, and 133 as  
 -----  
 22 set forth in 40  
 -----  
 23 C.F.R. Part 81,  
 -----  
 24 Designation of  
 -----  
 25 Air Quality  
 -----  
 26 Control Regions  
 -----  
 27 (1981)  
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29 1300 micro- maximum 3 hour  
 -----  
 30 grams per concentration  
 -----  
 31 cubic meter not to be  
 -----  
 32 (0.5 ppm by exceeded more  
 -----  
 33 volume) than once  
 -----  
 34 per year  
 -----

36 1300 micro- maximum 1  
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1		grams per		hour concen-
2		----- cubic meter		----- tration not
3		----- (0.5 ppm by		----- to be exceeded
4		----- volume)		----- more than
5		-----		----- once per
6				----- year
7				-----
8	<del>6-</del> Particulate	75 micro-	60 micro-	maximum annual
9	Matter	grams per	grams per	geometric mean
10		cubic	cubic	
11		meter	meter	
12				
13		260 micro-	150 micro-	maximum 24 hr.
14		grams per	grams per	concentration
15		cubic	cubic	not to be ex-
16		meter	meter	ceeded more
17				than once per
18				year
19				-----
20	<del>7-</del> Nitrogen	0.05 ppm	0.05 ppm	maximum annual
21	Dioxides	by volume	by volume	arithmetic mean
22		(100 micro-	(100 micro-	
23		grams per	grams per	
24		cubic	cubic	
25		meter)	meter)	

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