PROPOSED REGULATION OF THE STATE

ENVIRONMENTAL COMMISSION

LCB File No. R038-12

April 10, 2012

EXPLANATION - Matter in *italics* is new; matter in brackets [omitted material] is material to be omitted.

AUTHORITY: §§1-4, NRS 445B.210.

A REGULATION relating to air pollution; adopting the most recent national ambient air quality standards; adopting by reference certain federal regulations relating to air quality; and providing other matters properly relating thereto.

Section 1. Chapter 445B of NAC is hereby amended by adding thereto a new section to read as follows:

"PM_{2.5}" means any particulate matter in the atmosphere with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers as measured by an approved reference method or equivalent method based on 40 C.F.R. Part 50, Appendix L, and designated in accordance with 40 C.F.R. Part 53.

Sec. 2. NAC 445B.001 is hereby amended to read as follows:

445B.001 As used in NAC 445B.001 to 445B.3689, inclusive, unless the context otherwise requires, the words and terms defined in NAC 445B.002 to 445B.211, inclusive, *and section 1 of this regulation* have the meanings ascribed to them in those sections.

Sec. 3. NAC 445B.22097 is hereby amended to read as follows:

445B.22097 1. The table contained in this section lists the minimum standards of quality for ambient air.

		NEVADA STANDARDS ^A		NATIONAL STANDARDS ^B		
POLLUTANT	AVERAGING TIME	CONCENTRATION ^C	METHOD ^D	PRIMARY ^{C, E}	SECONDARY ^{C, F}	METHODD
Ozone	1 hour	0.12 ppm (235 μg/m³)	Ultraviolet absorption	0.12 ppm ^G [(235 μg/m³)] (1979 standard)	- Same as primary	Chemiluminescence
	8 hours			0.075 ppm (2008 standard)		
Ozone-Lake Tahoe Basin, #90	1 hour	0.10 ppm (195 μg/m³)	Ultraviolet absorption			
Carbon monoxide less than 5,000' above mean sea level	8 hours	9 ppm (10,500 μg/m³)			None	Nondispersive infrared photometry
At or greater than 5,000' above mean sea level		6 ppm (7,000 μg/m³)	Nondispersive infrared photometry			
Carbon monoxide at any elevation	1 hour	35 ppm (40,500 μg/m³)		35 ppm (40 mg/m³)		
Nitrogen dioxide	Annual arithmetic mean	0.053 ppm (100 μg/m³)	Gas phase chemiluminescence	[0.053 ppm (100 μg/m³)] 53 ppb	Same as primary	Gas phase chemiluminescence
	1 hour		-	100 ppb	None	
Sulfur dioxide	Annual arithmetic mean	0.030 ppm (80 µg/m³) 0.14 ppm	Ultraviolet fluorescence	[0.030] 0.03 ppm ^H (1971 standard) 0.14 ppm ^H	None	Spectrophotometry (Pararosaniline method)
	24 hours	(365 μg/m³) 0.5 ppm		(1971 standard)		
	3 hours	(1,300 μg/m ³)		None	0.5 ppm	
	1 hour			75 ppb	None	
Particulate matter as PM ₁₀	Annual arithmetic mean	50 μg/m ³	High volume PM ₁₀	[50 μg/m²] None	None	
	24 hours	150 μg/m ³	sampling	150 μg/m ³	Same as primary	High <i>or low</i> volume PM ₁₀ sampling
Particulate matter as PM _{2.5}	Annual arithmetic mean			15.0 μg/m ³	Same as primary	Low volume PM _{2.5}
	24 hours	-	-	$35 \mu g/m^3$	Same as primary	sampling
Lead (Pb)	Nevada: Quarterly arithmetic mean; National: Rolling 3 mo. average	1.5 μg/m ³	High volume sampling, acid extraction and atomic absorption spectrometry	[1.5] 0.15 μg/m ³	Same as primary	High volume sampling, acid extraction and atomic absorption spectrometry
Hydrogen sulfide	1 hour	0.08 ppm (112 µg/m³) ^{tGJ}	Ultraviolet fluorescence			

Notes:

Note A: The Director shall use the Nevada standards in considering whether to issue a permit for a stationary source and shall ensure that the stationary source will not cause the Nevada standards to be exceeded in areas where the general public has access.

Note B: [These standards, other than for ozone, particulate matter, and those based on annual averages, must not be exceeded more than once per year. The 1-hour ozone standard is attained when the expected number of days per calendar year with a maximum hourly average concentration above the standard is equal to or less than one. The PM₁₀-24-hour standard is

attained when the expected number of days per calendar year with a 24-hour average concentration above the standard, rounded to the nearest 10 µg/m³, is equal to or less than one. The expected number of days per calendar year is generally based on an average of the number of times the standard has been exceeded per year for the last 3 years.] The National standards are [to be] used in determinations of attainment or nonattainment. The form of a National standard is the criteria which must be satisfied for each respective concentration level of a standard for the purposes of attainment. The form for each National standard is set forth in 40 C.F.R. Part 50 and may be viewed at http://www.epa.gov/air/criteria.html.

Note C: Where applicable, concentration is expressed first in units in which it was adopted. All measurements of air quality that are expressed as mass per unit volume, such as micrograms per cubic meter, must be corrected to a reference temperature of 25 degrees Centigrade and a reference pressure of 760 mm of Hg (1,013.2 millibars); "ppm" in this table refers to parts per million by volume, or micromoles of regulated air pollutant per mole of gas; "µg/m³" refers to micrograms per cubic meter.

Note D: Any reference method specified in accordance with 40 C.F.R. Part 50 or any reference method or equivalent method designated in accordance with 40 C.F.R. Part 53 may be substituted.

Note E: National primary standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health.

Note F: National secondary standards are the levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a regulated air pollutant.

Note G: The EPA revoked the National 1-hour ozone standard as it applies to all areas.

However, anti-backsliding provisions in Federal law require certain areas to have continuing

Note H: The 1971 National sulfur dioxide standards remain in effect for an area until 1 year after the area is designated for the 2010 National sulfur dioxide standard, except that in an area designated nonattainment for the 1971 National sulfur dioxide standards, the 1971 standards remain in effect until an implementation plan to attain or maintain the 2010 National sulfur dioxide standards is approved.

Note 1: The ambient air quality standard for hydrogen sulfide does not include naturally occurring background concentrations.

- 2. These standards of quality for ambient air are minimum goals, and it is the intent of the Commission in this section to protect the existing quality of Nevada's air to the extent that it is economically and technically feasible.
 - **Sec. 4.** NAC 445B.221 is hereby amended to read as follows:

obligations under the National 1-hour ozone standard.

- 445B.221 1. Title 40 C.F.R. §§ 51.100(s), 51.100(nn) and 51.301 and Appendix S of 40 C.F.R. Part 51 are hereby adopted by reference as they existed on July 1, 2010.
 - 2. Title 40 C.F.R. § 51.165 is hereby adopted by reference as it existed on July 1, 2002.
- 3. Appendices M and W of 40 C.F.R. Part 51 are hereby adopted by reference as they existed on [July 1, 2010.] *January 1, 2011.*
- 4. Title 40 C.F.R. § 52.21 is hereby adopted by reference as it existed on [August 2, 2010.]

 July 20, 2011.
 - 5. The following subparts of 40 C.F.R. Part 60 are hereby adopted by reference:

- (a) Subpart A, except §§ 60.4, 60.8(b)(2), 60.8(b)(3) and 60.11(e), as it existed on July 1, 2010;
 - (b) Section 60.21 of Subpart B, as it existed on July 1, 2010;
- (c) Subparts C, Cb, Cc, Cd, D, Da, Db, Dc, E, Ea, Eb, G, H, I, J, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, GG, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, VVa, WW, XX, BBB, DDD, FFF, GGG, GGGa, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, AAAA, CCCC, DDDD, EEEE, FFFF, IIII, JJJJ and KKKK as they existed on July 1, 2010;
 - (d) Subparts Ce and Ec as they existed on May 4, 2011;
 - (e) Subpart F as it existed on November 8, 2010; and
- (f) Subpart HHHH, except §§ 60.4105(b)(2), 60.4106, 60.4120 to 60.4142, inclusive, 60.4153(a) and (b) and 60.4176, as it existed on June 9, 2006.
 - 6. Appendices A, B and F of 40 C.F.R. Part 60 are hereby adopted by reference:
 - (a) Appendix A as it existed on July 1, 2010; and
 - (b) Appendices B and F as they existed on November 8, 2010.
- 7. Subparts A, C, D, E, F, H, I, J, K, L, N, O, P, Q, R, T, V, W, Y, BB and FF of 40 C.F.R. Part 61 are hereby adopted by reference as they existed on July 1, 2010.
- 8. Appendix B of 40 C.F.R. Part 61 is hereby adopted by reference as it existed on July 1, 2010.
 - 9. The following subparts of 40 C.F.R. Part 63 are hereby adopted by reference:
- (a) Subparts A, B, C, F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ, KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX,

AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT, UUUU, VVVV, WWWW, XXXX, YYYY, AAAAA, BBBBB, CCCCC, EEEEE, FFFFF, GGGGG, HHHHH, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN, PPPPP, QQQQQ, SSSSS, WWWWW, YYYYY, ZZZZZ, DDDDDD, EEEEEE, FFFFFF, GGGGGG, HHHHHH, LLLLLL, MMMMMM, NNNNNN, OOOOOO, PPPPPP, QQQQQQ, RRRRRR, SSSSSS, TTTTTTT, VVVVVV, WWWWWW, XXXXXXX, ZZZZZZ, AAAAAAA, BBBBBBB and CCCCCCC, as they existed on July 1, 2010;

- (b) Subpart LLL as it existed on November 8, 2010;
- (c) Subpart ZZZZ, as it existed on May 9, 2011;
- (d) Subpart DDDDD as it existed on May 20, 2011;
- (e) Subparts BBBBBB and CCCCCC, as they existed on January 24, 2011;
- (f) Subpart JJJJJJ, as it existed on May 20, 2011; and
- (g) Subpart EEEEEEE, as it existed on February 17, 2011.
- 10. Appendix A of 40 C.F.R. Part 63 is hereby adopted by reference as it existed on November 8, 2010.
- 11. Title 40 C.F.R. Part 72 is hereby adopted by reference as it existed on July 1, 2010. If the provisions of 40 C.F.R. Part 72 conflict with or are not included in NAC 445B.001 to 445B.3689, inclusive, and sections 2 to 7, inclusive, of LCB File No. R014-11, which was adopted by the State Environmental Commission and filed with the Secretary of State on October 26, 2011, the provisions of 40 C.F.R. Part 72 apply.
- 12. Title 40 C.F.R. Part 76 is hereby adopted by reference as it existed on July 1, 2010. If the provisions of 40 C.F.R. Part 76 conflict with or are not included in NAC 445B.001 to 445B.3689, inclusive, and sections 2 to 7, inclusive, of LCB File No. R014-11, which was

adopted by the State Environmental Commission and filed with the Secretary of State on October 26, 2011, the provisions of 40 C.F.R. Part 76 apply.

- 13. Title 42 of the United States Code, section 7412(b), List of Hazardous Air Pollutants, is hereby adopted by reference as it existed on October 1, 1993.
- 14. The *Standard Industrial Classification Manual*, 1987 edition, published by the United States Office of Management and Budget, is hereby adopted by reference. A copy of the manual may be obtained, free of charge, from the United States Department of Labor at the Internet address http://www.dol.gov.
- 15. A copy of the publications which contain the provisions adopted by reference in subsections 1 to 13, inclusive, may be obtained from the:
- (a) Division of State Library and Archives of the Department of Cultural Affairs for 10 cents per page.
- (b) Government Printing Office, free of charge, at the Internet address http://www.gpo.gov/fdsys/.
 - 16. The following standards of ASTM International are hereby adopted by reference:
- (a) ASTM D5504, "Standard Test Method for Determination of Sulfur Compounds in Natural Gas and Gaseous Fuels by Gas Chromatography and Chemiluminescence," set forth in Volume 05.06 of the 2008 Annual Book of ASTM Standards. A copy of ASTM D5504 is available by mail from ASTM International, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959, by telephone at (610) 832-9585 or at the Internet address http://www.astm.org, for the price of \$40.
- (b) ASTM D2234 and D2234M, "Standard Practice for Collection of a Gross Sample of Coal," set forth in Volume 05.06 of the 2008 Annual Book of ASTM Standards. A copy of ASTM

D2234 and D2234M is available by mail from ASTM International, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959, by telephone at (610) 832-9585 or at the Internet address **http://www.astm.org**, for the price of \$40.

- (c) ASTM D2013, "Standard Practice for Preparing Coal Samples for Analysis," set forth in Volume 05.06 of the 2008 Annual Book of ASTM Standards. A copy of ASTM D2013 is available by mail from ASTM International, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959, by telephone at (610) 832-9585 or at the Internet address http://www.astm.org, for the price of \$46.
- (d) ASTM D6784, "Standard Test Method for Elemental, Oxidized, Particle-Bound and Total Mercury in Flue Gas Generated from Coal-Fired Stationary Sources (Ontario Hydro Method)," set forth in Volume 11.07 of the 2008 Annual Book of ASTM Standards. A copy of ASTM D6784 is available by mail from ASTM International, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959, by telephone at (610) 832-9585 or at the Internet address http://www.astm.org, for the price of \$46.
- (e) ASTM D2015, "Standard Test Method for Gross Calorific Value of Coal and Coke by the Adiabatic Bomb Calorimeter," dated April 10, 2000. A copy of ASTM D2015 is available for purchase at the IHS Standards Store, 15 Inverness Way East, M/S A110B, Englewood, Colorado 80112, or at the Internet address http://global.ihs.com, for the price of [\$54.] \$56.
- (f) ASTM D3286, "Standard Test Method for Gross Calorific Value of Coal and Coke by the Isoperibol Bomb Calorimeter," dated July 10, 1996. A copy of ASTM D3286 is available for purchase at the IHS Standards Store, 15 Inverness Way East, M/S A110B, Englewood, Colorado 80112, or at the Internet address http://global.ihs.com, for the price of [\$54.] \$56.

- (g) ASTM D1989, "Standard Test Method for Gross Calorific Value of Coal and Coke by Microprocessor Controlled Isoperibol Calorimeters," dated July 10, 1997. A copy of ASTM D1989 is available for purchase at the IHS Standards Store, 15 Inverness Way East, M/S A110B, Englewood, Colorado 80112, or at the Internet address http://global.ihs.com, for the price of \$\\$54.\\$56.
- 17. For the purposes of the provisions of 40 C.F.R. Parts 60, 61 and 63, adopted by reference pursuant to this section, the Director may not approve alternate or equivalent test methods or alternative standards or work practices.
- 18. Except as otherwise provided in subsections 11 and 12, the provisions adopted by reference in this section supersede the requirements of NAC 445B.001 to 445B.3689, inclusive, and sections 2 to 7, inclusive, of LCB File No. R014-11, which was adopted by the State Environmental Commission and filed with the Secretary of State on October 26, 2011, for all stationary sources subject to the provisions adopted by reference only if those requirements adopted by reference are more stringent.
- 19. For the purposes of this section, "administrator" as used in the provisions of 40 C.F.R. Part 60, except Subpart B § 60.21 and Subpart HHHH §§ 60.4101 to 60.4105, inclusive, 60.4107 to 60.4114, inclusive, 60.4151 to 60.4173, inclusive, and 60.4175, and Parts 61 and 63, adopted by reference pursuant to this section, means the Director.