

Proposed Revisions to Louisiana Toxic Air Pollutant Ambient Air Standards

The Louisiana Department of Environmental Quality (LDEQ) promulgated the list of Toxic Air Pollutants (TAPs) and Ambient Air Standards (AAS) in December 1991 as part of the Comprehensive Toxic Air Pollutant Emission Control Program (LAC 33:III. Chapter 51). Except relatively minor revisions, the current listing has been in effect for more than a decade. The LDEQ is now considering revisions to the Minimal Emission Rate (MER) and AAS for TAPs in LAC 33:III. Chapter 51. The proposed revisions can be found in the Advanced Notice of Rulemaking and Solicitation of Comments at the LDEQ website: <http://www.deq.louisiana.gov/portal/portals/0/planning/regs/pdf/0704Pot1.pdf>

Summary of Proposed Revisions

The LDEQ is proposing the following changes:

- More stringent standards to be established for sixteen TAPs.
- Less stringent standards to be established for six TAPs.
- Reclassification for seven TAPs.
- Fifteen TAPs to be given a short term (8-hour average) AAS for the first time, in addition to annual AAS.
- Retain Methyl ethyl ketone (MEK) as a state TAP.

Specific changes are summarized in the following tables to assist regulated facilities to assess the potential impact of the proposed revisions.

Table 1. Sixteen TAPs With More Stringent AAS Proposed

Compound	CAS Number	Current AAS		Proposed AAS (Within 3 Years of Promulgation)		Proposed AAS (3 Years after Promulgation)	
		µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)	µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)	µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)
Acetaldehyde	75-07-0	--	45.50	--	45.50	--	9.00
Ammonia	7664-41-7	640.00	--	640.00	--	405.00	--
n-Butyl alcohol	71-36-3	3620.00	--	3620.00	--	1452.00	--
1,2-Dibromoethane	106-93-4	--	0.45	--	0.45	3642.86	0.17
1,4-Dioxane	123-91-1	2140.00	--	2140.00	--	107.00	--
Epichlorhydrin	106-89-8	--	83.00	--	83.00	452.38	1.00
Hydrochloric Acid	7647-01-0	180.00	--	180.00	--	71.00	--
Hydrofluoric Acid	7664-39-3	61.90	--	61.90	--	9.80	--
Hydrogen Cyanide	74-90-8	260.00	--	260.00	--	120.00	--
Maleic Anhydride	108-31-6	23.80	--	23.80	--	9.50	--
Mercury	7439-97-6	1.19	--	1.19	--	0.24	--
Methyl methacrylate	80-62-6	9760.00	--	9760.00	--	4881.00	--
Propionaldehyde	123-38-6	4290.00	--	4290.00	--	1143.00	--
Pyridine	110-86-1	381.00	--	381.00	--	74.00	--
Sulfuric acid	7664-93-9	23.80	--	23.80	--	4.76	--
Vinyl acetate	108-05-4	830.00	--	830.00	--	446.00	--

Table 2. Six TAPs With Less Stringent AAS Proposed

Compound	CAS Number	Current AAS		Proposed AAS (Within 3 years of Promulgation)		Proposed AAS (3 years after Promulgation)	
		µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)	µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)	µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)
Benzene	71-43-2	--	12.00	--	12.00	71.43	30.00
1,3-Butadiene	106-99-0	--	0.92	--	0.92	104.76	2.00
Chloromethane	74-87-3	--	55.56	--	55.56	--	90.00
Cresol	1319-77-3	238.00	--	238.00	--	300.00	--
Vinyl chloride	75-01-4	--	1.19	--	1.19	61.90	11.36
Vinylidene chloride	75-35-4	--	2.00	--	2.00	--	200.00

Table 3. Proposed Reclassified Seven TAPs

Compound	CAS Number	Current Classification	Proposed Re-classification
Acetonitrile	75-05-8	II	III
Acrolein	107-02-8	II	III
Acrylamide	79-06-1	II	I
Antimony (and compounds)	7440-36-0	II	III
Barium (and compounds)	7440-39-3	II	III
Bis(2-Chloroethyl) Ether	111-44-4	I	II
1,3-Butadiene	106-99-0	II	I

Table 4. Fifteen TAPs With New Short Term (8 hour) Averages AAS Proposed

Compound	CAS Number	Proposed AAS (Within 3 Years of Promulgation)		Proposed AAS (3 Years after Promulgation)	
		µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)	µg/m ³ (8 Hour Average)	µg/m ³ (Annual Average)
Acrylamide	79-06-1	--	0.08	7.14	0.08
Acrylonitrile	107-13-1	--	1.47	103.10	1.47
Arsenic (and compounds)	7440-38-2	--	0.02	0.24	0.02
Benzene	71.43-2	--	12.00	71.43	30.00
Beryllium (and compounds)	7440-41-7	--	0.04	0.05	0.04
1,3-Butadiene	106-99-0	--	0.92	104.76	2.00
Cadmium (and compounds)	7440-43-9	--	0.06	0.12	0.06
Chromium VI (and compounds)	7440-47-3	--	0.01	2.38	0.01
1,2-Dibromoethane	106-93-4	--	0.45	3642.86	0.17
Ethylene oxide	75-21-8	--	1.00	42.86	1.00
Formaldehyde	50-00-0	--	7.69	21.90	7.69
Nickel (and compounds)	7440-02-0	--	0.21	23.81	0.21
Nickel (refinery dust)	7440-02-0	--	0.42	35.71	0.42
Propylene oxide	75-56-9	--	27.00	5714.29	27.00
Vinyl chloride	75-01-4	--	1.19	61.90	11.36

Sources or potential sources of toxic air pollutants should be cognizant of these rule changes and how they will affect long term operation and environmental planning. The LDEQ Advanced Notice of Rulemaking does not contain information on how the LDEQ intends to implement the new standards. The revisions are to be made to only Tables 51.1, 51.2, and 51.3; not to rule text that references the tables. LAC 33:III.5109.B requires sources subject to Chapter 51 to determine the status of compliance with the AAS listed in Tale 51.2. The proposed new standards have a three-year grace period starting from the promulgation date. Facilities need to

determine the compliance status by the end of the three-year period. Facilities unable to comply will be required to initiate compliance projects.

Comment Period and Instructions

The LDEQ has requested comments on the proposed rule changes for technical content as well as cost estimates for implementation of the proposed rule by interested parties. Comments are due no later than May 21, 2007. The contact information for providing comments on the rule is listed below.

Comments may be submitted electronically to:	jim.orgeron@la.gov
or by mail to:	James Orgeron Office of Environmental Assessment Plan Development Section P.O.Box 4304 Baton Rouge, LA 70821-4314
or by fax to:	(225) 219-3582

For further questions concerning these rules and other air quality management issues, please contact Yousheng Zeng, Ph.D., P.E. using the following contact information.



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