

# County of Forsyth



## PUBLIC HEARING AND OPPORTUNITY FOR PUBLIC COMMENT FORSYTH COUNTY OFFICE OF ENVIRONMENTAL ASSISTANCE AND PROTECTION WINSTON-SALEM, NC

The Forsyth County Office of Environmental Assistance and Protection Board will hold a public hearing on Tuesday, October 21, 2014 at 10:00 am at the County Government Center, first floor boardroom, 201 N. Chestnut St., Winston-Salem, NC. The hearing will include the following proposed modifications, to Chapter 3 of the Forsyth County Air Quality Control Code and Air Quality Ordinance and Technical Code.

The following rules are proposed modifications to Subchapter 3D-Air Pollution Control Requirements, Section 3D-1100 Control of Toxic Air Pollutants: 1104 Toxic air pollutant guidelines; and Subchapter 3Q Air Quality Permits, Section 3Q-0700 Toxic Air Pollutant Procedures: 0711 Emission rates requiring a permit. Any person may appear before the Environmental Assistance and Protection Board and bring representatives, consultants, and witnesses to be heard relative to the matter that he seeks action by the Board, provided advance notice is given to the Office Director of such matter to be considered.

Additional information on these issues is available for public review at the Forsyth County Environmental Assistance and Protection Office, Forsyth County Government Center, 201 N. Chestnut St, Winston-Salem, North Carolina. The public comment period begins today and ends on October 21. Date: September 19, 2014

*W. Minor Barnette*

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W. Minor Barnette, Director

PROPOSED REVISIONS TO CHAPTER 3 OF THE  
FORSYTH COUNTY CODE AND AIR QUALITY  
CONTROL TECHNICAL CODE

PUBLIC HEARING TIME & DATES

10 AM, October 21, 2014  
in the First Floor Board Room at the  
Forsyth County Government Center  
201 North Chestnut Street  
Winston-Salem, NC 27101

Telephone Number: (336) 703-2440

Fax Number: (336) 703- 2777

Proposed rule revision are available on our website at:  
[http://www.forsyth.cc/EAP/public\\_notices.aspx](http://www.forsyth.cc/EAP/public_notices.aspx)

# CHANGES TO RULES

## INSTRUCTIONS FOR UNDERSTANDING CHANGES

Additions: Words, sentences, or entire paragraphs to be added are underlined.

For example, Area sources mean all sources other than point sources.

Deletions: Words, sentences, or entire paragraphs to be deleted are struck through.

For example, ~~Area sources mean all sources other than point sources.~~

Additions/Deletions: Words, sentences, or entire paragraphs that have been changed as a result of comments received prior or during the public or during the public hearing.

For example, July ~~1, 2009-10, 2009~~

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## SUBCHAPTER 3D AIR POLLUTION CONTROL REQUIREMENTS

### SECTION 3D-1100. CONTROL OF TOXIC AIR POLLUTANTS

#### Sec. 3D-1104. Toxic air pollutant guidelines

A facility shall not emit any of the following toxic air pollutants in such quantities that may cause or contribute beyond the premises (adjacent property boundary) to any significant ambient air concentration that may adversely affect human health. In determining these significant ambient air concentrations, the Office of Environmental Assistance and Protection shall be guided by the following list of acceptable ambient levels in milligrams per cubic meter at 77E F (25E C) and 29.92 inches (760 mm) of mercury pressure (except for asbestos):

Pollutant (CAS Number)	Annual (Carcinogens)	24-Hour (Chronic Toxicants)	1-Hour (Acute Systemic Toxicants)	1-hour (Acute Irritants)
acetaldehyde (75-07-0)				27
acetic acid (64-19-7)				3.7
acrolein (107-02-8)				0.08
acrylonitrile (107-13-1)		0.03	1	
ammonia (7664-41-7)				2.7
aniline (62-53-3)			1	
arsenic and inorganic arsenic compounds	<del>2.3 x 10<sup>-7</sup></del> <u>2.1</u> <u>x 10<sup>-6</sup></u>			
asbestos (1332-21-4)	2.8 x 10 <sup>-6</sup> fibers/ml			
aziridine (151-56-4)		0.006		
benzene (71-43-2)	1.2 x 10 <sup>-4</sup>			
benzidine and salts (92-87-5)	1.5 x 10 <sup>-8</sup>			
benzo(a)pyrene (50-32-8)	3.3 x 10 <sup>-5</sup>			
benzyl chloride (100-44-7)			0.5	
beryllium (7440-41-7)	4.1 x 10 <sup>-6</sup>			
beryllium chloride (7787-47-5)	4.1 x 10 <sup>-6</sup>			
beryllium fluoride (7787-49-7)	4.1 x 10 <sup>-6</sup>			
beryllium nitrate (13597-99-4)	4.1 x 10 <sup>-6</sup>			

Pollutant (CAS Number)	Annual (Carcinogens)	24-Hour (Chronic Toxicants)	1-Hour (Acute Systemic Toxicants)	1-hour (Acute Irritants)
bioavailable chromate pigments, as chromium (VI) equivalent	$8.3 \times 10^{-8}$			
bis-chloromethyl ether (542-88-1)	$3.7 \times 10^{-7}$			
bromine (7726-95-6)				0.2
1,3-butadiene (106-99-0)	$4.4 \times 10^{-4}$			
cadmium (7440-43-9)	$5.5 \times 10^{-6}$			
cadmium acetate (543-90-8)	$5.5 \times 10^{-6}$			
cadmium bromide (7789-42-6)	$5.5 \times 10^{-6}$			
carbon disulfide (75-15-0)		0.186		
carbon tetrachloride (56-23-5)	$6.7 \times 10^{-3}$			
chlorine (7782-50-5)		0.0375		0.9
chlorobenzene (108-90-7)		2.2		
chloroform (67-66-3)	$4.3 \times 10^{-3}$			
chloroprene (126-99-8)		0.44	3.5	
cresol (1319-77-3)			2.2	
p-dichlorobenzene (106-46-7)				66
dichlorodifluoromethane (75-71-8)		248		
Dichlorofluoromethane (75-43-4)		0.5		
di(2-ethylhexyl)phthalate (117-81-7)		0.03		
dimethyl sulfate (77-78-1)		0.003		
1,4-dioxane (123-91-1)		0.56		
epichlorohydrin (106-89-8)	$8.3 \times 10^{-2}$			
ethyl acetate (141-78-6)			140	
ethylenediamine (107-15-3)		0.3	2.5	
ethylene dibromide (106-93-4)	$4.0 \times 10^{-4}$			
ethylene dichloride (107-06-2)	$3.8 \times 10^{-3}$			
ethylene glycol monoethyl ether (110-80-5)		0.12	1.9	
ethylene oxide (75-21-8)	$2.7 \times 10^{-5}$			
ethyl mercaptan (75-08-1)			0.1	

Pollutant (CAS Number)	Annual (Carcinogens)	24-Hour (Chronic Toxicants)	1-Hour (Acute Systemic Toxicants)	1-hour (Acute Irritants)
fluorides		0.016	0.25	
formaldehyde (50-00-0)				0.15
hexachlorocyclopentadiene (77-47-4)		0.0006	0.01	
hexachlorodibenzo-p-dioxin (57653-85-7)	$7.6 \times 10^{-8}$			
n-hexane (110-54-3)		1.1		
hexane isomers except n-hexane				360
hydrazine (302-01-2)		0.0006		
hydrogen chloride (7647-01-0)				0.7
hydrogen cyanide (74-90-8)		0.14	1.1	
hydrogen fluoride (7664-39-3)		0.03		0.25
hydrogen sulfide (7783-06-4)		0.12		
maleic anhydride (108-31-6)		0.012	0.1	
manganese and compounds		0.031		
manganese cyclopentadienyl tricarbonyl (12079-65-1)		0.0006		
manganese tetroxide (1317-35-7)		0.0062		
mercury, alkyl		0.00006		
mercury, aryl and inorganic compounds		0.0006		
mercury, vapor (7439-97-6)		0.0006		
methyl chloroform (71-55-6)		12		245
methylene chloride (75-09-2)	$2.4 \times 10^{-2}$		1.7	
methyl ethyl ketone (78-93-3)		3.7		88.5
methyl isobutyl ketone (108-10- 1)		2.56		30
methyl mercaptan (74-93-1)			0.05	
nickel carbonyl (13463-39-3)		0.0006		
nickel metal (7440-02-0)		0.006		
nickel, soluble compounds, as nickel		0.0006		

Pollutant (CAS Number)	Annual (Carcinogens)	24-Hour (Chronic Toxicants)	1-Hour (Acute Systemic Toxicants)	1-hour (Acute Irritants)
nickel subsulfide (12035-72-2)	$2.1 \times 10^{-6}$			
nitric acid (7697-37-2)				1
nitrobenzene (98-95-3)		0.06	0.5	
n-nitrosodimethylamine (62-75-9)	$5.0 \times 10^{-5}$			
non-specific chromium (VI) compounds, as chromium (VI) equivalent	$8.3 \times 10^{-8}$			
pentachlorophenol (87-86-5)		0.003	.025	
perchloroethylene (127-18-4)	$1.9 \times 10^{-1}$			
phenol (108-95-2)			0.95	
phosgene (75-44-5)		0.0025		
phosphine (7803-51-2)				0.13
polychlorinated biphenyls (1336-36-3)	$8.3 \times 10^{-5}$			
soluble chromate compounds as chromium (VI) equivalent		$6.2 \times 10^{-4}$		
styrene (100-42-5)			10.6	
sulfuric acid (7664-93-9)		0.012	0.1	
tetrachlorodibenzo-p-dioxin (1746-01-6)	$3.0 \times 10^{-9}$			
1,1,1,2-tetrachloro-2,2- difluoroethane (76-11-9)		52		
1,1,2,2-tetrachloro-1,2- difluoroethane (76-12-0)		52		
1,1,2,2-tetrachloroethane (79-34-5)	$6.3 \times 10^{-3}$			
toluene (108-88-3)		4.7		56
toluene-2, 4-diisocyanate (584- 84-9) and 2,6- isomers (91-08-7)		0.0002		
trichloroethylene (79-01-6)	$5.9 \times 10^{-2}$			
Trichlorofluoromethane (75-69-4)			560	
1,1,2-trichloro-1,2,2- trifluoroethane (76-13-1)				950



Pollutant (CAS Number)	Annual (Carcinogens)	24-Hour (Chronic Toxicants)	1-Hour (Acute Systemic Toxicants)	1-hour (Acute Irritants)
vinyl chloride (75-01-4)	3.8 x 10 <sup>-4</sup>			
vinylidene chloride (75-35-4)		0.12		
xylene (1330-20-7)		2.7		65

(Ord. No. 9-94, 12-19-94, 9-14-98, 5-24-99, 05-14-01)

### SUBCHAPTER 3Q - AIR QUALITY PERMITS

#### SECTION 3Q-0700. TOXIC AIR POLLUTANT PROCEDURES

##### Sec. 3Q-0711. Emission rates requiring a permit

(a) A permit to emit toxic air pollutants is required for any facility where one or more emission release points are obstructed or non-vertically oriented whose actual rate of emissions from all sources are greater than any one of the following toxic air pollutant permitting emissions rates:

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
acetaldehyde (75-07-0)				6.8
acetic acid (64-19-7)				0.96
acrolein (107-02-8)				0.02
acrylonitrile (107-13-1)		0.4	0.22	
ammonia (7664-41-7)				0.68
aniline (62-53-3)			0.25	
arsenic and inorganic arsenic compounds	<del>0.016</del> 0.053			
asbestos (1332-21-4)	5.7 x10 <sup>-3</sup>			
aziridine (151-56-4)		0.13		
benzene (71-43-2)	8.1			
benzidine and salts (92-87-5)	0.0010			
benzo(a)pyrene (50-32-8)	2.2			
benzyl chloride (100-44-7)			0.13	
beryllium (7440-41-7)	0.28			

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
beryllium chloride (7787-47-5)	0.28			
beryllium fluoride (7787-49-7)	0.28			
beryllium nitrate (13597-99-4)	0.28			
bioavailable chromate pigments, as chromium (VI) equivalent	0.0056			
bis-chloromethyl ether (542-88-1)	0.025			
bromine (7726-95-6)				0.052
1,3-butadiene (106-99-0)	11			
cadmium (7440-43-9)	0.37			
cadmium acetate (543-90-8)	0.37			
cadmium bromide (7789-42-6)	0.37			
carbon disulfide (75-15-0)		3.9		
carbon tetrachloride (56-23-5)	460			
chlorine (7782-50-5)		0.79		0.23
chlorobenzene (108-90-7)		46		
chloroform (67-66-3)	290			
chloroprene (126-99-8)		9.2	0.89	
cresol (1319-77-3)			0.56	
p-dichlorobenzene (106-46-7)				16.8
dichlorodifluoromethane (75-71-8)		5200		
dichlorofluoromethane (75-43-4)		10		
di(2-ethylhexyl)phthalate (117-81-7)		0.63		
dimethyl sulfate (77-78-1)		0.063		
1,4-dioxane (123-91-1)		12		
epichlorohydrin (106-89-8)	5600			
ethyl acetate (141-78-6)			36	
ethylenediamine (107-15-3)		6.3	0.64	
ethylene dibromide (106-93-4)	27			
ethylene dichloride (107-06-2)	260			
ethylene glycol monoethyl ether (110-80-5)		2.5	0.48	

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
ethylene oxide (75-21-8)	1.8			
ethyl mercaptan (75-08-1)			0.025	
fluorides		0.34	0.064	
formaldehyde (50-00-0)				0.04
Hexachlorocyclopentadiene (77-47-4)		0.013	0.0025	
hexachlorodibenzo-p-dioxin (57653-85-7)	0.0051			
n-hexane (110-54-3)		23		
hexane isomers except nBhexane				92
hydrazine (302-01-2)		0.013		
hydrogen chloride (7647-01-0)				0.18
hydrogen cyanide (74-90-8)		2.9	0.28	
hydrogen fluoride (7664-39-3)		0.63		0.064
hydrogen sulfide (7783-06-4)		1.7		
maleic anhydride (108-31-6)		0.25	0.025	
manganese and compounds		0.63		
manganese cyclopentadienyl tricarbonyl (12079-65-1)		0.013		
manganese tetroxide (1317-35-7)		0.13		
mercury, alkyl		0.0013		
mercury, aryl and inorganic compounds		0.013		
mercury, vapor (7439-97-6)		0.013		
methyl chloroform (71-55-6)		250		64
methylene chloride (75-09-2)	1600		0.39	
methyl ethyl ketone (78-93-3)		78		22.4
methyl isobutyl ketone (108-10-1)		52		7.6
methyl mercaptan (74-93-1)			0.013	
nickel carbonyl (13463-39-3)		0.013		
nickel metal (7440-02-0)		0.13		
nickel, soluble compounds, as nickel		0.013		
nickel subsulfide (12035-72-2)	0.14			

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
nitric acid (7697-37-2)				0.256
nitrobenzene (98-95-3)		1.3	0.13	
n-nitrosodimethylamine (62-75-9)	3.4			
non-specific chromium (VI) compounds, as chromium (VI) equivalent	0.0056			
pentachlorophenol (87-86-5)		0.063	0.0064	
perchloroethylene (127-18-4)	13000			
phenol (108-95-2)			0.24	
phosgene (75-44-5)		0.052		
phosphine (7803-51-2)				0.032
polychlorinated biphenyls (1336-36-3)	5.6			
soluble chromate compounds, as chromium (VI) equivalent		0.013		
styrene (100-42-5)			2.7	
sulfuric acid (7664-93-9)		0.25	0.025	
tetrachlorodibenzo-p-dioxin (1746-01-6)	0.00020			
1,1,1,2-tetrachloro-2,2-difluoroethane (76-11-9)		1100		
1,1,2,2-tetrachloro-1,2-difluoroethane (76-12-0)		1100		
1,1,2,2-tetrachloroethane (79-34-5)	430			
toluene (108-88-3)		98		14.4
toluene diisocyanate,2,4-(584-84-9) and 2,6-(91-08-7) isomers		0.003		
trichloroethylene (79-01-6)	4000			
trichlorofluoromethane (75-69-4)			140	
1,1,2-trichloro-1,2,2-trifluoroethane (76-13-1)				240
vinyl chloride (75-01-4)	26			
vinylidene chloride (75-35-4)		2.5		
xylene (1330-20-7)		57		16.4

(b) A permit to emit toxic air pollutants is required for any facility where all emission release points are unobstructed and vertically oriented whose actual rate of emissions from all sources are greater than any one of the following toxic air pollutant permitting emissions rates:

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
acetaldehyde (75-07-0)				28.43
acetic acid (64-19-7)				3.90
acrolein (107-02-8)				0.08
acrylonitrile (107-13-1)		1.3	1.05	
ammonia (7664-41-7)				2.84
aniline (62-53-3)			1.05	
arsenic and inorganic arsenic compounds	0.194			
asbestos (1332-21-4)	$7.748 \times 10^{-3}$			
aziridine (151-56-4)		0.3		
benzene (71-43-2)	11.069			
benzidine and salts (92-87-5)	$1.384 \times 10^{-3}$			
benzo(a)pyrene (50-32-8)	3.044			
benzyl chloride (100-44-7)			0.53	
beryllium (7440-41-7)	0.378			
beryllium chloride (7787-47-5)	0.378			
beryllium fluoride (7787-49-7)	0.378			
beryllium nitrate (13597-99-4)	0.378			
bioavailable chromate pigments, as chromium (VI) equivalent	0.008			
bis-chloromethyl ether (542-88-1)	0.034			
bromine (7726-95-6)				0.21
1,3-butadiene (106-99-0)	40.585			
cadmium (7440-43-9)	0.507			
cadmium acetate (543-90-8)	0.507			
cadmium bromide (7789-42-6)	0.507			
carbon disulfide (75-15-0)		7.8		
carbon tetrachloride (56-23-5)	618.006			

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
chlorine (7782-50-5)		1.6		0.95
chlorobenzene (108-90-7)		92.7		
chloroform (67-66-3)	396.631			
chloroprene (126-99-8)		18.5	3.69	
cresol (1319-77-3)			2.32	
p-dichlorobenzene (106-46-7)				69.5
dichlorodifluoromethane (75-71-8)		10445.4		
dichlorofluoromethane (75-43-4)		21.1		
di(2-ethylhexyl)phthalate (117-81-7)		1.3		
dimethyl sulfate (77-78-1)		0.1		
1,4-dioxane (123-91-1)		23.6		
epichlorohydrin (106-89-8)	7655.891			
ethyl acetate (141-78-6)			147.41	
ethylenediamine (107-15-3)		12.6	2.63	
ethylene dibromide (106-93-4)	36.896			
ethylene dichloride (107-06-2)	350.511			
ethylene glycol monoethyl ether (110-80-5)		5.1	2.00	
ethylene oxide (75-21-8)	2.490			
ethyl mercaptan (75-08-1)			0.11	
fluorides		0.7	0.26	
formaldehyde (50-00-0)				0.16
hexachlorocyclopentadiene (77-47-4)		$2.5 \times 10^{-2}$	0.01	
hexachlorodibenzo-p-dioxin (57653-85-7)	0.007			
n-hexane (110-54-3)		46.3		
hexane isomers except nBhexane				379.07
hydrazine (302-01-2)		$2.5 \times 10^{-2}$		
hydrogen chloride (7647-01-0)				0.74
hydrogen cyanide (74-90-8)		5.9	1.16	
hydrogen fluoride (7664-39-3)		1.3		0.26
hydrogen sulfide (7783-06-4)		5.1		

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
maleic anhydride (108-31-6)		0.5	0.11	
manganese and compounds		1.3		
manganese cyclopentadienyl tricarbonyl (12079-65-1)		$2.5 \times 10^{-2}$		
manganese tetroxide (1317-35-7)		0.3		
mercury, alkyl		$2.5 \times 10^{-3}$		
mercury, aryl and inorganic compounds		<del><math>2.5 \times 10^{-3}</math></del> <u><math>2.5 \times 10^{-2}</math></u>		
mercury, vapor (7439-97-6)		<del><math>2.5 \times 10^{-3}</math></del> <u><math>2.5 \times 10^{-2}</math></u>		
methyl chloroform (71-55-6)		505.4		257.98
methylene chloride (75-09-2)	2213.752		1.79	
methyl ethyl ketone (78-93-3)		155.8		93.19
methyl isobutyl ketone (108-10-1)		107.8		<u>31.59</u>
methyl mercaptan (74-93-1)			0.05	
nickel carbonyl (13463-39-3)		$2.5 \times 10^{-2}$		
nickel metal (7440-02-0)		0.3		
nickel, soluble compounds, as nickel		$2.5 \times 10^{-2}$		
nickel subsulfide (12035-72-2)	0.194			
nitric acid (7697-37-2)				1.05
nitrobenzene (98-95-3)		2.5	0.53	
n-nitrosodimethylamine (62-75-9)	4.612			
non-specific chromium (VI) compounds, as chromium (VI) equivalent	0.008			
pentachlorophenol (87-86-5)		0.1	0.03	
perchloroethylene (127-18-4)	17525.534			
phenol (108-95-2)			1.00	
phosgene (75-44-5)		0.1		
phosphine (7803-51-2)				0.14
polychlorinated biphenyls (1336-36-3)	7.656			
soluble chromate compounds, as chromium (VI) equivalent		$2.6 \times 10^{-2}$		

Pollutant (CAS Number)	Carcinogens lb/yr	Chronic Toxicants lb/day	Acute Systemic Toxicants lb/hr	Acute Irritants lb/hr
styrene (100-42-5)			11.16	
sulfuric acid (7664-93-9)		0.5	0.11	
tetrachlorodibenzo-p-dioxin (1746-01-6)	$2.767 \times 10^{-4}$			
1,1,1,2-tetrachloro-2,2-difluoroethane (76-11-9)		2190.2		
1,1,2,2-tetrachloro-1,2-difluoroethane (76-12-0)		2190.2		
1,1,2,2-tetrachloroethane (79-34-5)	581.110			
toluene (108-88-3)		<u>197.96</u>		58.97
toluene diisocyanate,2,4-(584-84-9) and 2,6- (91-08-7) isomers		$8.4 \times 10^{-3}$		
trichloroethylene (79-01-6)	5442.140			
trichlorofluoromethane (75-69-4)			589.66	
1,1,2-trichloro-1,2,2-trifluoroethane (76-13- 1)				1000.32
vinyl chloride (75-01-4)	35.051			
vinylidene chloride (75-35-4)		5.1		
xylene (1330-20-7)		113.7		68.44

(c) For the following pollutants, the highest emissions occurring for any 15-minute period shall be multiplied by four and the product shall be compared to the value in Paragraph (a). These pollutants are:

- (1) acetaldehyde (75-07-0);
- (2) acetic acid (64-19-7);
- (3) acrogen (107-02-8);
- (4) ammonia (7664-41-7);
- (5) bromine (7726-95-6);
- (6) chlorine (7782-50-5);
- (7) formaldehyde (50-00-0);
- (8) hydrogen chloride (7647-01-0);
- (9) hydrogen fluoride (7664-39-3); and
- (10) nitric acid (7697-37-2). (9-14-98, 5-24-99, 05-14-01)



