15A NCAC 02D .0546 is adopted with changes as published in 34:15 NCR 1336 as follows:

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15A NCAC 02D .0546 CONTROL OF EMISSIONS FROM LOG FUMIGATION OPERATIONS

- 4 (a) Purpose. The purpose of this Rule is to establish emission control requirements for hazardous air pollutants and toxic air pollutants from log fumigation operations.
- (b) Definitions. For the purpose of this Rule, the following definitions and definitions in this Subchapter or 15A
 NCAC 02Q apply:
- 8 (1) "Bulk or tarpaulin log fumigation" means the fumigation of logs that are placed in piles on an impermeable surface and covered with a weighted-down tarpaulin.
 - (2) "Chamber log fumigation" means the fumigation of logs inside a sealed building or structure that is specifically used for fumigation. Chambers used for fumigation may be either atmospheric or vacuum type.
 - (3) "Container log fumigation" means the fumigation of logs inside a container-and where the doors of the container are closed and sealed.
 - (4) "Fumigant" means the hazardous air pollutant or toxic air pollutant that is used to eliminate the pests within the logs.
 - (5) "Fumigation operation" means the period of time that the fumigant is injected and retained in the container or chamber container, chamber, or bulk piles for the purposes of treating the logs for insects and other pests to prevent the transfer of exotic organisms.
- 20 "Hazardous air pollutant" means any pollutant listed under Section 112(b) of the federal Clean Air 21 Act. Act in 42 U.S.C. 7412(b).
- 22 (7) "Public right-of-way" means an access area where people can reasonably be expected to be 23 present for any or all parts of a 24-hour period.
- 24 (8) "Toxic air pollutant" means any of the carcinogens, chronic toxicants, acute systemic toxicants, or acute irritants that are listed in 15A NCAC 02D .1104.
- 26 (c) Applicability. This Rule applies to new, existing, and modified bulk, chamber, and container log fumigation operations that use a hazardous air pollutant or toxic air pollutant as a fumigant.
- 28 (d) Emission Control Requirements. The owner or operator of a log fumigation operation shall comply with the
- 29 Toxic Air Pollutant Guidelines specified in 15A NCAC 02D .1104 and follow the procedures specified in 15A
- 30 NCAC 02D .1106, 15A NCAC 02Q .0709, and .0710.
- 31 (e) The owner or operator shall post signs notifying the public of fumigation operations. The signs shall be visible
- 32 and legible to the public at the fence or property line closest to any public right-of-way. The signs shall remain in
- 33 place at all times and shall conform to the format for placards mandated by the federally approved fumigant label.
- (f) Monitoring, Recordkeeping and Reporting. The owner or operator of a bulk, chamber, or container log fumigation operation shall comply with the requirements pursuant to 15A NCAC 02D-.0600:
- The owner or operator shall send an initial notification of commencement of operations to the appropriate Division of Air Quality regional office within 15 days of initial fumigation start-up.

1	(2)	The ov	wner or operator shall submit a quarterly summary report, with the original signature of the
2		Permit	tee permittee or the authorized responsible official, of the monitoring and recordkeeping
3		activiti	ies postmarked no later than 30 days after the end of each calendar year quarter. The report
4		shall c	ontain the following:
5		(A)	the company name, address, and facility ID number;
6		(B)	the calendar year quarter represented by the report;
7		(C)	the daily and total fumigant usage in pounds for each quarter;
8		(D)	a summary of the monitoring data required by the permit that was collected during the
9			quarter; and
10		(E)	a summary of exceedances from the levels established in the permit that occurred during
11			the quarter of any monitoring parameters.
12	(g) Compliance	Schedul	le. The owner or operator of an existing log fumigation operation subject to this Rule shall
13	achieve complia	nce with	in 60 days after the Rule is effective or in accordance with an alternate compliance schedule
14	approved by the	Director	r. In establishing an alternate compliance schedule, the Director shall consider whether the
15	compliance app	roach ch	osen by the facility involves the purchase and installation of a control device. New and
16	modified faciliti	ies shall a	achieve compliance with this Rule upon start-up.
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18	History Note:	Author	rity G.S. 143-215.3(a)(1); <u>143-215.107(a)(4);</u> 143-215.107(a)(5);
19		Eff. No	ovember 1,2020.

15A NCAC 02D .1104 is amended with changes as published in 34:15 NCR 1337 as follows:

15A NCAC 02D .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 facility's premises to any significant ambient air concentration that may adversely affect human health, except as allowed pursuant to 15A NCAC 02Q .0700. In determining these significant ambient air concentrations, the Division shall be governed by the following list of acceptable ambient levels in milligrams per cubic meter at 77° F (25° C) and 29.92 inches (760 mm) of mercury pressure, except for asbestos:

Acceptable Ambient Levels (AAL) in M	vinnigianis pei Cubic	wieter (mg/m²)	Except where N	oicu
Pollutant (CAS Number)	Annual	24-hour	1-hour	1-hour
	(Carcinogens)	(Chronic	(Acute	(Acute
		Toxicants)	Systemic	Irritants)
			Toxicants)	
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	2.1 x 10 ⁻⁶			
compounds	2.1 X 10			
asbestos (1332-21-4)	2.8 x 10 ⁻⁶			
	fibers/ml			
aziridine (151-56-4)		0.006		
benzene (71-43-2)	1.2 x 10 ⁻⁴			
benzidine and salts (92-87-5)	1.5 x 10 ⁻⁸			
benzo(a)pyrene (50-32-8)	3.3 x 10 ⁻⁵			
benzyl chloride (100-44-7)			0.5	
beryllium (7440-41-7)	4.1 x 10 ⁻⁶			
beryllium chloride (7787-47-5)	4.1 x 10 ⁻⁶			
beryllium fluoride (7787-49-7)	4.1 x 10 ⁻⁶			
beryllium nitrate (13597-99-4)	4.1 x 10 ⁻⁶			
bioavailable chromate pigments, as	8.3 x 10 ⁻⁸			
chromium (VI) equivalent				

Acceptable Ambient Levels (AAL) in M	illigrams per Cubic	Meter (mg/m³)	Except Where N	oted
Pollutant (CAS Number)	Annual	24-hour	1-hour	1-hour
	(Carcinogens)	(Chronic	(Acute	(Acute
		Toxicants)	Systemic	Irritants)
			Toxicants)	
bis-chloromethyl ether (542-88-1)	3.7 x 10 ⁻⁷			
bromine (7726-95-6)				0.2
1,3-butadiene (106-99-0)	4.4 x 10 ⁻⁴			
cadmium (7440-43-9)	5.5 x 10 ⁻⁶			
cadmium acetate (543-90-8)	5.5 x 10 ⁻⁶			
cadmium bromide (7789-42-6)	5.5 x 10 ⁻⁶			
carbon disulfide (75-15-0)		0.186		
carbon tetrachloride (56-23-5)	6.7 x 10 ⁻³			
chlorine (7782-50-5)		0.0375		0.9
chlorobenzene (108-90-7)		2.2		
chloroform (67-66-3)	4.3 x 10 ⁻³			
chloroprene (126-99-8)		0.44	3.5	
cresol (1319-77-3)			2.2	
p-dichlorobenzene (106-46-7)				66
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 x 10 ⁻²			
ethyl acetate (141-78-6)			140	
ethylenediamine (107-15-3)		0.3	2.5	
ethylene dibromide (106-93-4)	4.0 x 10 ⁻⁴			
ethylene dichloride (107-06-2)	3.8 x 10 ⁻³			
ethylene glycol monoethyl ether		0.12	1.0	
(110-80-5)		0.12	1.9	
ethylene oxide (75-21-8)	2.7 x 10 ⁻⁵			
ethyl mercaptan (75-08-1)			0.1	
fluorides		0.016	0.25	
formaldehyde (50-00-0)				0.15
hexachlorocyclopentadiene (77-47-4)		0.0006	0.01	
hexachlorodibenzo-p-dioxin	7.6 x 10 ⁻⁸			

Acceptable Ambient Levels (AAL) in M	filligrams per Cubic	Meter (mg/m ³)	Except Where N	loted
Pollutant (CAS Number)	Annual	24-hour	1-hour	1-hour
	(Carcinogens)	(Chronic	(Acute	(Acute
		Toxicants)	Systemic	Irritants)
			Toxicants)	
(57653-85-7)				
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		0.0006		
tricarbonyl (12079-65-1)		0.0006		
manganese tetroxide (1317-35-7)		0.0062		
mercury, alkyl		0.00006		
mercury, aryl and inorganic		0.0006		
compounds		0.0000		
mercury, vapor (7439-97-6)		0.0006		
methyl bromide (74-83-9)				
[Option 1]		[0.005]		
[Option 2]		[0.078]		
[Option 3]	0.005 ^a	[0.078] 1.0		
methyl chloroform (71-55-6)		12		245
methylene chloride (75-09-2)	2.4 x 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		
nickel subsulfide (12035-72-2)	2.1 x 10 ⁻⁶	1		

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Acceptable Ambient Levels (AAL) in M	lilligrams per Cubic	: Meter (mg/m³)	Except Where N	oted
Pollutant (CAS Number)	Annual	24-hour	1-hour	1-hour
	(Carcinogens)	(Chronic	(Acute	(Acute
		Toxicants)	Systemic	Irritants)
			Toxicants)	
nitric acid (7697-37-2)				1
nitrobenzene (98-95-3)		0.06	0.5	
n-nitrosodimethylamine (62-75-9)	5.0 x 10 ⁻⁵			
non-specific chromium (VI)	8.3 x 10 ⁻⁸			
compounds, as chromium (VI)				
equivalent				
pentachlorophenol (87-86-5)		0.003	0.025	
perchloroethylene (127-18-4)	1.9 x 10 ⁻¹			
phenol (108-95-2)			0.95	
phosgene (75-44-5)		0.0025		
phosphine (7803-51-2)				0.13
polychlorinated biphenyls	8.3 x 10 ⁻⁵			
(1336-36-3)				
soluble chromate compounds, as		6.2 x 10 ⁻⁴		
chromium (VI) equivalent				
styrene (100-42-5)			10.6	
sulfuric acid (7664-93-9)		0.012	0.1	
tetrachlorodibenzo-p-dioxin	3.0 x 10 ⁻⁹			
(1746-01-6)				
1,1,2,2-tetrachloroethane (79-34-5)	6.3 x 10 ⁻³			
toluene (108-88-3)		4.7		56
toluene diisocyanate, 2,4- (584-84-9)		0.0002		
and 2,6- (91-08-7) isomers				
trichloroethylene (79-01-6)	5.9 x 10 ⁻²			
vinyl chloride (75-01-4)	3.8 x 10 ⁻⁴			
vinylidene chloride (75-35-4)		0.12		
xylene (1330-20-7)		2.7		65

^a This compound has not been defined as a carcinogen.

1	History Note:	Authority G.S. $143-215.3(a)(1)$; $143-215.107(a)(3),(4),(5)$; $143-215.107(a)(3)$; $143-215.107(a)(4)$;
2		<u>143-215.107(a)(5);</u> 143B-282;
3		Eff. May 1, 1990;
4		Amended Eff. September 1, 1992; March 1, 1992;
5		Temporary Amendment Eff. July 20, 1997;
6		Amended Eff. July 7, 2014; May 1, 2014; March 1, 2010; June 1, 2008; April 1, 2005; April 1, 2001;
7		July 1, 1998;
8		Readopted Eff. July 1, 2018. 2018;
9		Amended Eff. November 1, 2020.
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