1	15A NCAC 02D	.0503 is am	ended with changes as pu	blished in 37:17 NCR 1130 as follows:
2				
3	15A NCAC 02D	0.0503 PA	ARTICULATES FROM	1 FUEL BURNING INDIRECT HEAT EXCHANGERS
4	(a) For the purp	ose of this R	ule, the following definit	ions shall apply:
5	(1)	"Functiona	lly dependent" means tha	t structures, buildings, or equipment are interconnected through
6		common pr	rocess streams, supply lir	nes, flues, or stacks.
7	(2)	"Indirect h	eat exchanger" means ar	ny equipment used for the alteration of the temperature of one
8		fluid by the	e use of another fluid in w	which the two fluids are separated by an impervious surface such
9		that there is	s no mixing of the two fl	uids.
10	(3)	"Plant site	e" means any single o	r collection of structures, buildings, facilities, equipment,
11		installation	s, or operations that:	
12		(A) ar	e located on one or more	adjacent properties;
13		(B) ar	re in<u>under</u> common legal	control; and
14		(C) are	e functionally dependent	in their operations.
15	(b) The definiti	on contained	d in Subparagraph (a)(3)) of this Rule does not affect the calculation of the allowable
16	emission rate of	any indirect	heat exchanger permittee	l prior to April 1, 1999.
17	(c) The emission	ons of partice	ulate matter from the co	mbustion of a fuel that are discharged from any indirect heat
18	exchanger throug	<u>gh a</u> stack or	chimney into the atmosp	here shall not exceed:
19				
19 20				Allowable Emission Limit
	Maxim	um Heat Inpu	ut In	Allowable Emission Limit For Particulate Matter <u>In</u>
20		um Heat Inpu Btu/Hour	ut In	
20 21		-	ut In	For Particulate Matter In
20 21 22	Million	-		For Particulate Matter In
20 21 22 23	Million	Btu/Hour		For Particulate Matter <u>In</u> In Lb/Millionlb/Million Btu
20 21 22 23 24	Million Up to a	Btu/Hour		For Particulate Matter <u>In</u> In Lb/Millionlb/Million Btu 0.60
20 21 22 23 24 25	Million Up to a 100 1,000	Btu/Hour		For Particulate Matter <u>In</u> I n Lb/Million lb/Million Btu 0.60 0.33
20 21 22 23 24 25 26	Million Up to a 100 1,000	Btu/Hour		For Particulate Matter <u>In</u> In Lb/Millionlb/Million Btu 0.60 0.33 0.18
20 21 22 23 24 25 26 27	Million Up to a 100 1,000 10,000 For a heat input	Btu/Hour nd Including and Greater between any	; 10 r two consecutive heat inj	For Particulate Matter <u>In</u> In Lb/Million <u>lb/Million</u> Btu 0.60 0.33 0.18 0.10
20 21 22 23 24 25 26 27 28	Million Up to a 100 1,000 10,000 For a heat input emissions of part	Btu/Hour nd Including and Greater between any iculate matte	; 10 r two consecutive heat inp er shall be calculated by th	For Particulate Matter In In Lb/Million]b/Million Btu 0.60 0.33 0.18 0.10 buts stated in the table set forth in this Paragraph, the allowable me equation E= 1.090*Q ^{-0.2594} . "E" equals the allowable emission
20 21 22 23 24 25 26 27 28 29	Million Up to a 100 1,000 10,000 For a heat input emissions of part	Btu/Hour nd Including and Greater between any iculate matte	; 10 r two consecutive heat inp er shall be calculated by th	For Particulate Matter <u>In</u> In Lb/Million <u>lb/Million</u> Btu 0.60 0.33 0.18 0.10
20 21 22 23 24 25 26 27 28 29 30	Million Up to a 100 1,000 10,000 For a heat input emissions of part limit for particul	Btu/Hour nd Including and Greater between any iculate matter ate matter in	; 10 r two consecutive heat inj er shall be calculated by th lb/million Btu. "Q" equa	For Particulate Matter In In Lb/Million]b/Million Btu 0.60 0.33 0.18 0.10 buts stated in the table set forth in this Paragraph, the allowable me equation E= 1.090*Q ^{-0.2594} . "E" equals the allowable emission
20 21 22 23 24 25 26 27 28 29 30 31 32 33	Million Up to a 100 1,000 10,000 For a heat input emissions of part limit for particul (d) This Rule ap heat transfer. Fue	Btu/Hour nd Including and Greater between any iculate matter ate matter in oplies to insta	two consecutive heat inger shall be calculated by the lab/million Btu. "Q" equallations in which fuel is tose such as coal, coke, high	For Particulate Matter In In Lb/Million]b/Million Btu 0.60 0.33 0.18 0.10 buts stated in the table set forth in this Paragraph, the allowable ne equation E= $1.090 * Q^{-0.2594}$. "E" equals the allowable emission als the maximum heat input in million Btu/hour. burned for the purpose of producing heat or power by indirect guite, peat, natural gas, and fuel oils, but exclude For the purpose
20 21 22 23 24 25 26 27 28 29 30 31 32 33 34	Million Up to a 100 1,000 10,000 For a heat input emissions of part limit for particul (d) This Rule ap heat transfer. Fue of this Rule, the t	Btu/Hour nd Including and Greater between any iculate matter ate matter in oplies to insta els include th term "fuels" i	two consecutive heat inger shall be calculated by the lab/million Btu. "Q" equated allations in which fuel is toose such as coal, coke, lig	For Particulate Matter In In Lb/Million]b/Million Btu 0.60 0.33 0.18 0.10 buts stated in the table set forth in this Paragraph, the allowable en equation E= $1.090 * Q^{-0.2594}$. "E" equals the allowable emission als the maximum heat input in million Btu/hour. burned for the purpose of producing heat or power by indirect gnite, peat, natural gas, and fuel oils, but exclude For the purpose erate particulate matter emissions from indirect heat exchangers
20 21 22 23 24 25 26 27 28 29 30 31 32 33	Million Up to a 100 1,000 10,000 For a heat input emissions of part limit for particul (d) This Rule ap heat transfer. Fun of this Rule, the t	Btu/Hour nd Including and Greater between any iculate matter ate matter in oplies to insta els include th erm "fuels" i and refuse no	two consecutive heat ing er shall be calculated by th lb/million Btu. "Q" equa allations in which fuel is twose such as coal, coke, lig includes all fuels that gen ot burned as a fuel. When	For Particulate Matter In In Lb/Million]b/Million Btu 0.60 0.33 0.18 0.10 buts stated in the table set forth in this Paragraph, the allowable ne equation E= $1.090 * Q^{-0.2594}$. "E" equals the allowable emission als the maximum heat input in million Btu/hour. burned for the purpose of producing heat or power by indirect guite, peat, natural gas, and fuel oils, but exclude For the purpose

1 (e) For the purpose of this Rule, the maximum heat input shall be the total heat content of all fuels which are burned 2 in a fuel burning indirect heat exchanger, of which the combustion products are emitted through a stack or stacks. The 3 sum of maximum heat input of all fuel burning indirect heat exchangers at a plant site which are in operation, under 4 construction, or permitted pursuant to 15A NCAC 02Q, shall be considered as the total heat input for the purpose of 5 determining the allowable emission limit for particulate matter for each fuel burning indirect heat exchanger. Fuel 6 burning indirect heat exchangers constructed or permitted after February 1, 1983, shall not change the allowable 7 emission limit of any other fuel burning indirect heat exchanger whose allowable emission limit has previously been 8 set. The removal of a fuel burning indirect heat exchanger shall not change the allowable emission limit of any other 9 fuel burning indirect heat exchanger whose allowable emission limit has previously been established. However, for 10 any fuel burning indirect heat exchanger constructed after, or in conjunction with, the removal of another fuel burning 11 indirect heat exchanger at the plant site, the maximum heat input of the removed fuel burning indirect heat exchanger 12 shall no longer be considered in the determination of the allowable emission limit of any fuel burning indirect heat 13 exchanger constructed after or in conjunction with the removal. For the purposes of this Paragraph, refuse not burned 14 as a fuel and wood shall not be considered a fuel. For residential facilities or institutions, such as military and 15 educational, whose primary fuel burning capacity is for comfort heat, only those fuel burning indirect heat exchangers 16 located in the same power plant or building or otherwise physically interconnected, such as common flues, steam, or 17 power distribution line, shall be used to determine the total heat input. 18 (f) The emission limit for fuel burning equipment that burns both wood and other fuels in combination, or for wood 19 and other fuel burning equipment that is operated such that emissions are measured on a combined basis, shall be 20 calculated by the equation Ec = [(EW)(Qw) + (Eo)(Qo)]/Qt. 21 (1)Ec = the emission limit for combination or combined emission source(s) in lb/million Btu. 22 (2)Ew = plant site emission limit for wood only as determined pursuant to 15A NCAC 02D .0504 in 23 lb/million Btu. 24 (3)Eo = the plant site emission limit for other fuels only as determined by Paragraphs (a), (b) and (c) 25 of this Rule in lb/million Btu. 26 (4)Qw = the actual wood heat input to the combination or combined emission source(s) in Btu/hr. 27 (5) Qo = the actual other fuels heat input to the combination or combined emission source(s) in Btu/hr. 28 (6)Qt = Qw + Qo and is the actual total heat input to combination or combined emission source(s) in 29 Btu/hr. 30 31 History Note: Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5); 32 Eff. February 1, 1976; 33 Temporary Amendment Eff. March 8, 1994 for a period of 180 days or until the permanent rule is 34 effective, whichever is sooner; 35 Amended Eff. April 1, 1999; July 1, 1994; August 1, 1991; June 1, 1985; February 1, 1983; Readopted Eff. November 1, 2020.2020; 36 Amended Eff. November 1, 2023 37

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15A NCAC 02D .0506 is amended as published in 37:17 NCR 1130 as follows:

2					
3	15A NCAC 021	D .0506 PARTICULATES FROM HOT MIX ASPHALT PLANTS			
4	(a) The allowable emission rate for particulate matter resulting from the operation of a hot mix asphalt plant that are				
5	discharged from any stack or chimney into the atmosphere shall not exceed the level calculated with the equation				
6	E = 4.9	0445(P) ^{0.4376}			
7	calculated to the	ree significant figures, for process rates less than 300 tons per hour, where "E" equals the maximum			
8	allowable emiss	ion rate for particulate matter in pounds per hour and "P" equals the process rate in tons per hour. The			
9	allowable emiss	ion rate shall be 60.0 pounds per hour for process rates equal to or greater than 300 tons per hour.			
10	(b) Visible emis	ssions from stacks or vents at a hot mix asphalt plant shall not exceed 20 percent opacity when averaged			
11	over a six-minu	te period.			
12	(c) All hot mix	asphalt batch plants shall be equipped with a scavenger process dust control system for the drying,			
13	conveying, clas	sifying, and mixing equipment. The scavenger process dust control system shall exhaust through a			
14	stack or vent an	d shall be operated and maintained in such a manner as to comply with Paragraphs (a) and (b) of this			
15	Rule.				
16	(d) Fugitive not	n-process dust emissions shall be controlled by 15A NCAC 02D .0540.			
17	(e) Fugitive em	issions for sources at a hot mix asphalt plant not covered by Paragraphs (a) through (d) of this Rule			
18	shall not exceed	20 percent opacity averaged over six minutes.			
19					
20	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5);			
21		Eff. February 1, 1976;			
22		Amended Eff. August 1, 2004; July 1, 1998; January 1, 1985;			
23		Readopted Eff. November 1, 2020.2020;			
24		Amended Eff. November 1, 2023.			
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15A NCAC 02D .0532 is amended with changes as published in 37:17 NCR 1130 as follows:

2		
3	15A NCAC 02	D .0532 SOURCES CONTRIBUTING TO AN AMBIENT VIOLATION
4	(a) This Rule a	pplies to new major stationary sources and major modifications to which 15A NCAC 02D .0531 does
5	not apply and v	which would contribute to a violation of a national ambient air quality standard standard, but which
6	would not caus	e a new violation.
7	(b) For the put	rpose of this Rule the definitions contained in Section II.A. of Appendix S of 40 CFR Part 51 shall
8	apply.	
9	(c) The Rule is	not applicable to:
10	(1)	emission of pollutants for which the area in which the a pollutant from a new or modified source-is
11		located is in an area designated as nonattainment; nonattainment for that pollutant in 40 CFR 81.334:
12	(2)	emission of pollutants for which the source or modification is not major;
13	(3)	emission of pollutants other than sulfur dioxide, PM2.5, nitrogen oxides, and carbon monoxide;
14		monoxide, and PM10;
15	(4)	a new or modified source whose impact will not increase more than:
16		(A) $1.0 \ \mu g/m^3$ of SO ₂ on an annual basis;
17		(B) $5 \mu g/m^3$ of SO ₂ on a 24-hour basis;
18		(C) $25 \ \mu g/m^3$ of SO ₂ on a 3-hour basis;
19		(D) $0.3 \ \mu g/m^3$ of PM2.5 on an annual basis;
20		(E) $1.2 \ \mu g/m^3$ of PM2.5 on a 24-hour basis;
21		(F) $1.0 \ \mu g/m^3$ of NO ₂ on an annual basis;
22		(G) 0.5 mg/m^3 of carbon monoxide on an 8-hour basis;
23		(H) 2 mg/m^3 of carbon monoxide on a one-hour basis;
24		(I) $1.0 \ \mu g/m^3$ of PM10 on an annual basis; or
25		(J) $5 \mu g/m^3$ of PM10 on a 24-hour basis
26		at any locality that does not meet a national ambient air quality standard;
27	(5)	sources which are not major unless secondary emissions are included in calculating the potential to
28		emit;
29	(6)	sources which are exempted by the provision in Section II.F. of Appendix S of 40 CFR Part 51;
30	(7)	temporary emission sources which will be relocated within two years; and
31	(8)	emissions resulting from the construction phase of the source.
32	(d) 15A NCAG	C 02Q .0102 is not applicable to any source to which this Rule applies. The owner or operator of the
33	source shall app	bly for and receive a permit as required in 15A NCAC 02Q .0300 or .0500.
34	(e) To issue a	permit to a new or modified source to which this Rule applies, the Director shall determine that the
35	source will mee	et the following conditions:
36	(1)	The sources will emit the nonattainment pollutant at a rate no more than the lowest achievable
37		emission rate;

1	(2)	The owner or operator of the proposed new or modified source has demonstrated that all major
2		stationary sources in the State that are owned or operated by this person (or person, or any entit
3		controlling, controlled by, or under common control with this person) person, are subject to emissio
4		limitations and are in compliance, or on a schedule for compliance which is federally enforceable
5		or contained in a court decree, with all applicable emission limitations and standards of this
6		Subchapter which EPA has authority to approve as elements of the North Carolina Stat
7		Implementation Plan for Air Quality; and
8	(3)	The source will satisfy one of the following conditions:
9		(A) The source will comply with 15A NCAC 02D .0531(i) when the source is evaluated as
10		it were in the nonattainment area; or
11		(B) The source will have an air quality offset, i.e., the applicant will have caused an air qualit
12		improvement in the locality where the national ambient air quality standard is not met b
13		causing reductions in impacts of other sources greater than any additional impact cause
14		by the source for which the application is being made. The emissions reductions creatin
15		the air quality offset shall be placed as a condition in the permit for the source reducin
16		emissions. The requirements of this Part may be partially waived for the following sources
17		as specified in Section IV.B of Appendix S to 40 CFR Part 51, incorporated as specified i
18		Paragraph (g) of this Rule: if the source is a resource recovery facility burning municipa
19		solid waste, the source must switch fuels due to lack of adequate fuel supplies, or the source
20		is required to be modified as a result of EPA regulations and no exemption from suc
21		regulations is available and if:
22		(i) the permit applicant demonstrates that it made its best efforts to obtain sufficier
23		air quality offsets to comply with this Part;
24		(ii) the applicant has secured all available air quality offsets; and
25		(iii) the applicant will continue to seek the necessary air quality offsets and apply ther
26		when they become available.
27		(i) resource recovery facilities burning municipal solid waste; and
28		(ii) sources that must switch fuels due to lack of adequate fuel supplies, or source
29		that are required to be modified as a result of EPA regulations where no exemptio
30		from such regulations is available to the source, if:
31		(I) the permit applicant demonstrates that it made its best efforts to obtain
32		sufficient air quality offsets to comply with this Part;
33		(II) the applicant has secured all available air quality offsets; and
34		(III) the applicant will continue to seek the necessary air quality offsets an
35		apply them when they become available.
36	(f) At such tim	e that a particular source or modification becomes a major stationary source or major modificatio
37	solely by virtue	of a relaxation in any enforceable limitation established after August 7, 1980, on the capacity of th

2 of 3

1	source or modifi	cation to emit a pollutant, such as a restriction on hours of operation, then the provisions of this Rule	
2	shall apply to the source or modification as though construction had not yet begun on the source or modification.		
3	(g) The version of the Code of Federal Regulations incorporated in this Rule is that as of July 1, 2019, at		
4	https://www.gov	vinfo.gov/content/pkg/CFR-2019-title40-vol2/pdf/CFR-2019-title40-vol2-part51-appS.pdf and does	
5	not include any	subsequent amendments or editions to the referenced material. The publication may be accessed free	
6	of charge.		
7			
8	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5); 143-215.108(b); 150B-21.6;	
9		Eff. June 1, 1981;	
10		Temporary Amendment Eff. March 8, 1994 for a period of 180 days or until the permanent rule	
11		becomes effective, whichever is sooner;	
12		Amended Eff. July 1, 1994; December 1, 1993; December 1, 1992; October 1, 1989;	
13		Readopted Eff. November 1, 2020. 2020;	
14		<u>Amended Eff. November 1, 2023.</u>	
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15A NCAC 02D .0614 is amended with changes as published in 37:17 NCR 1130 as follows:

2			
3	15A NCAC 02	D .0614	COMPLIANCE ASSURANCE MONITORING
4	(a) General Ap	plicabili	ity. Except as set forth in Paragraph (b) of this Rule, the requirements of this Paragraph Rule
5	shall apply to a	a polluta	nt-specific emissions unitunit, as defined in 40 CFR 64.1, at a facility required to obtain a
6	permit pursuant	t to 15A	NCAC 02Q .0500 if the unit:
7	(1)	is sub	oject to an emission limitation or standard for the applicable regulated air pollutant, or a
8		surrog	gate thereof, other than an emission limitation or standard that is exempt pursuant to
9		Subpa	aragraph (b)(1) of this Rule;
10	(2)	uses a	control device to achieve compliance with any such emission limitation or standard; and
11	(3)	has po	otential pre-control device emissions of the applicable regulated air pollutant that are equal to
12		or gre	eater than 100 percent of the amount, in tons per year, required for a source to be classified as
13		a maj	or source. For purposes of this Subparagraph, Rule, "potential pre-control device emissions"
14		means	s the same as "potential to emit" as defined in 15A NCAC 02Q .0103, 40 CFR 64.1, except
15		that en	mission reductions achieved by the applicable control device shall not be taken into account.
16	(b) The follow	ing exen	nptions to this Rule shall apply.
17	(1)	Exem	pt emission limitations or standards. The requirements of this Rule shall not apply to any of
18		the fo	llowing emission limitations or standards:
19		(A)	emission limitations or standards proposed by the Administrator of the Environmental
20			Protection Agency after November 15, 1990, pursuant to section 111 or 112 of the federal
21			Clean Air Act;
22		(B)	stratospheric ozone protection requirements pursuant to Title VI of the federal Clean Air
23			Act;
24		(C)	Acid Rain Program requirements pursuant to sections 404, 405, 406, 407(a), 407(b), or
25			410 of the federal Clean Air Act;
26		(D)	emission limitations or standards or other applicable requirements that apply solely under
27			an emissions trading program approved under the rules of Subchapters 02D and 02Q of
28			this Chapter and that are incorporated in a permit issued pursuant to 15A NCAC 02Q
29			.0500;
30		(E)	an emissions cap that is approved pursuant to the rules of Subchapters 02D and 02Q of
31			this Chapter and incorporated in a permit issued pursuant to 15A NCAC 02Q .0500; or
32		(F)	emission limitations or standards for which a permit issued pursuant to 15A NCAC 02Q
33			.0500 specifies a continuous compliance determination method, as defined in 40 CFR
34			64.1. This exemption shall not apply if the applicable compliance method includes an
35			assumed control device emission reduction factor that could be affected by the actual
36			operation and maintenance of the control-device, such as device. Note: for example, a
37			surface coating line controlled by an incinerator for which continuous compliance is

1		determined by applying emissions on the basis of costing accords and an assumed
1		determined by calculating emissions on the basis of coating records and an assumed
2		control device efficiency factor based on an initial performance test. In this example, 15A
3		NCAC 02D .0614 would apply to the control device and capture system, but not to the
4		remaining elements of the coating line, such as raw material usage.
5	(2)	Exemption for backup utility power emissions units. The requirements of this Rule shall not apply
6		to a utility unit, as defined in 40 CFR 72.2, that is municipally-owned if the owner or operator
7		provides documentation in a permit application submitted pursuant to 15A NCAC 02Q .0500 that:
8		(A) the utility unit is exempt from all monitoring requirements in 40 CFR Part 75, including
9		the appendices thereto;
10		(B) the utility unit is operated for the sole purpose of providing electricity during periods of
11		peak electrical demand or emergency situations and will be operated consistent with that
12		purpose throughout the permit term. The owner or operator shall provide historical
13		operating data and relevant contractual obligations to document that this criterion is
14		satisfied; and2
15		(C) the actual emissions from the utility unit, based on the average annual emissions over the
16		last three calendar years of operation, or such shorter time period that is available for
17		units with fewer than three years of operation, are less than 50 tons per year and are
18		expected to remain so.
19	(c) For the purp	oses of this Rule, the definitions in 40 CFR 64.1 shall apply with the following exceptions:
20	(1)	"Applicable requirement" and "regulated air pollutant" shall have the same definition as in 15A
21		NCAC 02Q .0103.
22	(2)	"Part 70 or 71 permit application" means an application, or any supplement to a previously
23		submitted application, submitted by the owner or operator to obtain a permit under 15A NCAC
24		02Q .0500.
25	(3)	"Part 70 or 71 permit" means a permit issued under 15A NCAC 02Q .0500.
26	(4)	"Permitting authority" means the Division of Air Quality.
27	(d) The owner of	or operator subject to the requirements of this rule shall comply with these requirements:
28	(1)	40 CFR 64.3, Monitoring Design Criteria;
29	(2)	40 CFR 64.4, Submittal Requirements;
30	(3)	40 CFR 64.5, Deadlines for Submittals;
31	(4)	40 CFR 64.7, Operation of Approved Monitoring; and
32	(5)	40 CFR 64.9, Reporting and Recordkeeping Requirements.
33	(e) The Divisio	on shall follow the procedures and requirements in 40 CFR Part 64.6, Approval of Monitoring, in
34	reviewing and a	pproving or disapproving monitoring plans and programs submitted under this Rule.
35	(f) Based on th	e result of a determination made pursuant to 40 CFR 64.7(d)(2), the Director may require the owner
36	or operator to d	evelop and implement a quality improvement plan. If a quality improvement plan is required, the

1 quality improvement plan shall be developed and implemented according to the procedures and requirements of 40

2	CFR 64.8, Quality Improvement Plan (QIP) Requirements.		
3			
4	History Note:	Authority G.S. 143-215.3(a)(3); 143-215.65; 143-215.66; 143-215.107(a)(4); 143-215.107(a)(10);	
5		Eff. April 1, 1999;	
6		Amended Eff. January 1, 2009;	
7		Readopted Eff. November 1, 2019.<u>2019:</u>	
8		Amended Eff. November 1, 2023.	
9			
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15A NCAC 02D .0918 is amended with changes as published in 37:17 NCR 1130 as follows:

2		
3	15A NCAC 02D	.0918 CAN COATING
4	(a) For the purpo	ose of this Rule, the following definitions shall apply:
5	(1)	"End sealing compound" means a synthetic rubber compound that is coated onto can ends and
6		functions as a gasket when the end is assembled on the can.
7	(2)	"Exterior base coating" means a coating applied to the exterior of a can to provide exterior protection
8		to the metal and to provide background for the lithographic or printing operation.
9	(3)	"Interior base coating" means a coating applied by roller coater or spray to the interior of a can to
10		provide a protective lining between the can metal and product.
11	(4)	"Interior body spray" means a coating sprayed on the interior of the can body to provide a protective
12		film between the product and the can.
13	(5)	"Overvarnish" means a coating applied directly over ink to reduce the coefficient of friction, to
14		provide gloss, and to protect the finish against abrasion and corrosion.
15	(6)	"Three-piece can side-seam spray" means a coating sprayed on the exterior and interior of a welded,
16		cemented, or soldered seam to protect the exposed metal.
17	(7)	"Two-piece can exterior end coating" means a coating applied by roller coating or spraying to the
18		exterior end of a can to provide protection to the metal.
19	(b) This Rule ap	oplies to volatile organic compound emissions from coating applicators and ovens of sheet, can, or
20	end coating lines	involved in sheet exterior and interior basecoat and overvarnish; two-piece can interior body spray;
21	two-piece spray	or roll coat can exterior; and three-piece can side-seam spray and end sealing compound operations.
22	(c) Unless the ex	cception in Paragraph (d) of this Rule applies, emissions of volatile organic compounds from any can
23	coating line subj	ect to this Rule shall not exceed:
24	(1)	4.5 pounds of volatile organic compounds per gallon of solids delivered to the coating applicator
25		from sheet exterior and interior basecoat and overvarnish or two-piece can exterior basecoat and
26		overvarnish operations;
27	(2)	9.8 pounds of volatile organic compounds per gallon of solids delivered to the coating applicator
28		from two and three-piece can interior body spray and two-piece spray or roll coat can exterior end
29		operations;
30	(3)	21.8 pounds of volatile organic compounds per gallon of solids delivered to the coating applicator
31		from a three piece applicator from a three piece can side seam spray operations; from either a three
32		piece applicator or <u>a</u> -three piece three-piece can side seam spray [operations;]operation; or
33	(4)	7.4 pounds of volatile organic compounds per gallon of solids delivered to the coating applicator
34		from end sealing compound operations.
35		hat has controlled emissions pursuant to 15A NCAC 02D .0518(e) prior to July 1, 2000 and that has
36		tion control equipment in accordance with an air quality permit pursuant to 15A NCAC 02Q .0300
37	<u>or .0500</u> in order	to comply with this Rule before December 1, 1989 may comply with the limits contained in this

Paragraph instead of those contained in Paragraph (c) of this Rule. Emissions of volatile organic compounds from any
 can coating line subject to this RuleParagraph shall not exceed:

	υ	
3	(1)	2.8 pounds of volatile organic compounds per gallon of coating, excluding water and exempt
4		compounds, delivered to the coating applicator from sheet exterior and interior basecoat and
5		overvarnish or two-piece can exterior basecoat and overvarnish operations;
6	(2)	4.2 pounds of volatile organic compounds per gallon of coating, excluding water and exempt
7		compounds, delivered to the coating applicator from two and three-piece can interior body spray
8		and two-piece can spray or roll coat exterior end operations;
9	(3)	5.5 pounds of volatile organic compounds per gallon of coating, excluding water and exempt
10		compounds, delivered to the coating applicator from a three piece applicator from a three-piece can
11		side-seam spray-operations; operation; or
12	(4)	3.7 pounds of volatile organic compounds per gallon of coating, excluding water and exempt
13		compounds, delivered to the coating applicator from end sealing compound operations.
14		
15	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5);
16		Eff. July 1, 1979;
17		Amended Eff. July 1, 1996; July 1, 1991; December 1, 1989; January 1, 1985;
18		Readopted Eff. November 1, 2020.2020;
19		<u>Amended Eff. November 1, 2023.</u>
20		
21		

15A NCAC 02D .0926 is amended with changes as published in 37:17 NCR 1130 as follows:

3 15A NCAC 02D .0926 **BULK GASOLINE PLANTS** 4 (a) For the purpose of this Rule, the following definitions apply: 5 (1)"Average daily throughput" means annual throughput of gasoline divided by 312 days per year. "Bottom filling" means the filling of a cargo tank or stationary storage tank through an opening flush 6 (2) 7 with the tank bottom. 8 (3)"Bulk gasoline plant" means a gasoline storage and distribution facility with an average daily 9 throughput of less than 20,000 gallons of gasoline and that typically receives gasoline from bulk 10 terminals by cargo tank transport, stores it in tanks, and subsequently dispenses it via account cargo 11 tanks to farms, businesses, and service stations. 12 (4) "Bulk gasoline terminal" means a gasoline storage facility that typically receives gasoline from 13 refineries primarily by pipeline, ship, or barge; delivers gasoline to bulk gasoline plants or to 14 commercial or retail accounts primarily by cargo tank; and has an average daily throughput of 15 greater than or equal to 20,000 gallons of gasoline. 16 (5) "Cargo tank" means the storage vessels of freight trucks or trailers used to transport gasoline from 17 sources of supply to stationary storage tanks of bulk gasoline terminals, bulk gasoline plants, 18 gasoline dispensing facilities, and gasoline service stations. 19 (6) "Gasoline" means any petroleum distillate having a Reid Vapor Pressure (RVP) of 4.0 psi or greater. 20 (7)"Incoming vapor balance system" means a combination of pipes or hoses that create a closed system 21 between the vapor spaces of an unloading cargo tank and a receiving stationary storage tank such 22 that vapors displaced from the receiving stationary storage tank are transferred to the cargo tank 23 being unloaded. "Outgoing vapor balance system" means a combination of pipes or hoses that create a closed system 24 (8)25 between the vapor spaces of an unloading stationary storage tank and a receiving cargo tank such 26 that vapors displaced from the receiving cargo tank are transferred to the stationary storage tank 27 being unloaded. 28 (9) "Splash filling" means the filling of a cargo tank or stationary storage tank through a pipe or hose 29 whose discharge opening is above the surface level of the liquid in the tank being filled. 30 (10)"Submerged filling" means the filling of a cargo tank or stationary tank through a pipe or hose whose 31 discharge opening is entirely submerged when the pipe normally used to withdraw liquid from the 32 tank can no longer withdraw any liquid, or whose discharge opening is entirely submerged when 33 the liquid level is six inches above the bottom of the tank. 34 (b) This Rule applies to the unloading, loading, and storage facilities of all bulk gasoline plants, and of all cargo tanks 35 delivering or receiving gasoline at bulk gasoline plants except stationary storage tanks with capacities less than 528

36 gallons.

(c) The owner or operator of a bulk gasoline plant shall not transfer gasoline to <u>any a</u> stationary storage <u>tanks tank</u>
 unless the unloading cargo tank and the receiving stationary storage tank are equipped with an incoming vapor balance

- 3 system as described in Paragraph (i) of this Rule and the receiving stationary storage tank is equipped with a fill line
- 4 whose discharge opening is flush with the bottom of the tank. tank such that bottom filling can be achieved.
- 5 (d) The owner or operator of a bulk gasoline plant with an average daily gasoline throughput of 4,000 gallons or more
- 6 shall not load <u>a</u> cargo tank at such plant unless the unloading stationary storage tank and the receiving cargo tank are
- 7 equipped with an outgoing vapor balance system as described in Paragraph (i) of this Rule and the receiving cargo
- 8 tank is equipped for bottom filling.
- 9 (e) The owner or operator of a bulk gasoline plant with an average daily throughput of more than 2,500 gallons but 10 less than 4,000 gallons located in an area with a housing density exceeding the limits in this Paragraph shall not load 11 any cargo tank at such bulk gasoline plant unless the unloading stationary storage tank and receiving cargo tank are 12 equipped with an outgoing vapor balance system as described in Paragraph (i) of this Rule and the receiving cargo 13 tank is equipped for bottom filling. In the counties of Alamance, Buncombe, Cabarrus, Catawba, Cumberland, 14 Davidson, Durham, Forsyth, Gaston, Guilford, Mecklenburg, New Hanover, Orange, Rowan, and Wake, the specified 15 limit on housing density is 50 residences in a square one mile on a side with the square centered on the loading rack 16 at the bulk gasoline plant and with one side oriented in a true North-South direction. In all other counties the specified 17 limit on housing density is 100 residences per square mile. The housing density shall be determined by counting the 18 number of residences using aerial photographs or other methods approved by the Director to provide equivalent 19 accuracy.
- (f) The owner or operator of a bulk gasoline plant not subject to the outgoing vapor balance system requirements of
 Paragraph (d) or (e) of this Rule shall not load cargo tanks at such plants unless:
- (1) equipment is available and used at the bulk gasoline plant to provide for submerged filling of each
 cargo tank; or
- 24 (2) each receiving cargo tank is equipped for bottom filling.
- 25 (g) For gasoline bulk plants located in a nonattainment area for ozone, the owner or operator shall continue to comply
- with Paragraph (d) or (e) of this Rule even if the average daily throughput falls below the applicable threshold if ever
 the facility throughput triggered compliance.
- (h) The owner or operator of a bulk gasoline plant shall ensure a cargo tank that is required to be equipped with a
 vapor balance system pursuant to Paragraphs (c), (d), or (e) of this Rule shall not transfer gasoline between the cargo
 tank and the stationary storage tank unless:
- (1) the vapor balance system is in good working order and is connected and operating; connected,
 operating, and working as designed in accordance with the manufacturer's specifications and the
 definition of "good operation and maintenance" in 15A NCAC 02D .0602;
- 34 (2) cargo tank hatches are closed at all times during loading and unloading operations; and
- (3) the cargo tank's pressure/vacuum relief valves, hatch covers, and the cargo tank's and storage tank's
 associated vapor and liquid lines are vapor tight vapor-tight, as defined in 40 CFR 60.501 and
 63.11132, as applicable, during loading or unloading.

1	(i) Vapor balan	nce systems required under Paragraphs (c), (d), and (e) of this Rule shall consist of the following major
2	components:	
3	(1)	a vapor space connection on the stationary storage tank equipped with fittings that are vapor tight
4		and will be automatically and immediately closed upon disconnection to prevent release of volatile
5		organic material;
6	(2)	a connecting pipe or hose equipped with fittings that are vapor tight and will be automatically and
7		immediately closed upon disconnection to prevent release of volatile organic material; and
8	(3)	a vapor space connection on the cargo tank equipped with fittings that are vapor tight and will be
9		automatically and immediately closed upon disconnection to prevent release of volatile organic
10		material.
11	(j) The owner of	or operator of a bulk gasoline plant shall paint all tanks used for gasoline storage white or silver.
12	(k) The pressur	re relief valves on cargo tanks loading or unloading at bulk gasoline plants shall be set to release at the
13	highest possible	e pressure in accordance with State or local fire codes or the National Fire Prevention Association
14	Guidelines. The	e pressure relief valves on stationary storage tanks shall be set at 0.5 psi for storage tanks placed in
15	service on or af	ter November 1, 1992, and 0.25 psi for storage tanks existing before November 1, 1992.
16	(l) No owner of	or operator of a bulk gasoline plant may permit gasoline to be spilled, discarded in sewers, stored in
17	open containers	s, or handled in any other manner that would result in evaporation.
18	(m) The owned	er or operator of a bulk gasoline plant shall observe loading and unloading operations and shall
19	discontinue the	transfer of gasoline:
20	(1)	if any liquid leaks are observed; or
21	(2)	if any vapor leaks are observed where a vapor balance system is required under Paragraphs (c), (d),
22		or (e) of this Rule.
23	(n) The owner	or operator of a bulk gasoline plant shall not load, or allow to be loaded, gasoline into any cargo tank
24	unless the cargo	b tank has been certified leak tight in accordance with 15A NCAC 02D .0932, .0960, and .2615.0932.
25		
26	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5);
27		Eff. July 1, 1979;
28		Amended Eff. July 1, 1996; May 1, 1993; March 1, 1991; December 1, 1989; January 1, 1985;
29		Readopted Eff. November 1, 2020.<u>2020;</u>
30		Amended Eff. November 1, 2023.
31		
32		

1 15A NCAC 02D .0927 is amended <u>with changes</u> as published in 37:17 NCR 1130 as follows:

2			
3	15A NCAC 02D	0.0927 BULK GASOLINE TERMINALS	
4	4 (a) For the purpose of this Rule, the following definitions apply:		
5	(1)	"Bulk gasoline terminal" means:	
6		(A) a pipeline breakout station of an interstate oil pipeline facility; or	
7		(B) a gasoline storage facility that typically receives gasoline from refineries primarily by	
8		pipeline, ship, or barge; delivers gasoline to bulk gasoline plants or to commercial or retail	
9		accounts primarily by cargo tank; and has an average daily throughput of more than 20,000	
10		gallons of gasoline.	
11	(2)	"Cargo tank" means the storage vessels of freight trucks or trailers used to transport gasoline from	
12		sources of supply to stationary storage tanks of bulk gasoline terminals, bulk gasoline plants,	
13		gasoline dispensing facilities, and gasoline service stations.	
14	(3)	"Contact deck" means a deck in an internal floating roof tank that rises and falls with the liquid level	
15		and floats in direct contact with the liquid surface.	
16	(4)	"Degassing" means the process by which a tank's interior vapor space is decreased to below the	
17		lower explosive limit for the purpose of cleaning, inspection, or repair.	
18	(5)	"Gasoline" means a petroleum distillate having a Reid Vapor Pressure (RVP) of 4.0 psi or greater.	
19	(6)	"Leak" means a crack or hole letting petroleum product vapor or liquid escape that is identifiable	
20		through sight, sound, smell, an explosimeter, or the use of a meter that measures volatile organic	
21		compounds. When an explosimeter or meter is used to detect a leak, a leak is a measurement that	
22		is equal to or greater than 100 percent of the lower explosive limit, as detected by a combustible	
23		gas detector using the test procedure described in Appendix B of EPA-450/2-78-051. This test	
24		procedure is incorporated by reference, including any subsequent amendments and editions. A	
25		copy of this test procedure may be obtained free of charge at	
26		https://nepis.epa.gov/Exe/ZyPDF.cgi/2000M9RD.PDF?Dockey=2000M9RD.PDF.	
27	(7)	"Liquid balancing" means a process used to degas floating roof gasoline storage tanks with a liquid	
28		whose vapor pressure is below 1.52 psi. This is done by removing as much gasoline as possible	
29		without landing the roof on its internal supports, pumping in the replacement fluid, allowing mixing,	
30		remove-removing as much mixture as possible without landing the roof, and repeating these steps	
31		until the vapor pressure of the mixture is below 1.52 psi.	
32	(8)	"Liquid displacement" means a process by which gasoline vapors, vapors remaining in an empty	
33		tank,tank are displaced by a liquid with a vapor pressure below 1.52 psi.	
34	(9)	"Pipeline breakout station" means a facility along a pipeline containing storage tanks used to:	
35		(A) relieve surges in a hazardous liquid pipeline system; or	
36		(B) receive and store hazardous liquids transported by pipeline for reinjection and continued	
37		transport by pipeline.	

1			For the purposes of this definition, "hazardous liquid" means the materials listed in 49 CFR 195.2.
2	(b) Th	is Rule a	pplies to bulk gasoline terminals and the appurtenant equipment necessary to load the cargo tank
3	compar	rtments.	
4	(c) Ga	soline sha	ll not be loaded into any cargo tank from any bulk gasoline terminal unless:
5		(1)	the bulk gasoline terminal is equipped with a vapor control system that prevents the emissions of
6			volatile organic compounds from exceeding 35 milligrams per liter. The owner or operator shall
7			obtain from the manufacturer and maintain in the cargo tank's records a pre-installation certification
8			stating the vapor control efficiency of the system in use;
9		(2)	displaced vapors and gases are vented only to the vapor control system or to a flare;
10		(3)	a means is provided to prevent liquid drainage from the loading device when it is not in use or to
11			accomplish complete drainage before the loading device is disconnected; and
12		(4)	all loading and vapor lines are equipped with fittings that make vapor-tight connections and that are
13			automatically and immediately closed upon disconnection.
14	(d) So	urces regu	lated by this Rule shall not:
15		(1)	allow gasoline to be discarded in sewers or stored in open containers or handled in any manner that
16			would result in evaporation; or
17		(2)	allow the pressure in the vapor collection system to exceed the cargo tank pressure relief settings.
18	(e) Th	e owner o	r operator of a bulk gasoline terminal shall paint all tanks used for gasoline storage white or silver.
19	(f) The	e owner o	r operator of a bulk gasoline terminal shall install on each external floating roof tank with an inside
20	diamet	er of 100 f	feet or less used to store gasoline a self-supporting roof, such as a geodesic dome.
21	(g) Th	e followin	g equipment shall be required on all tanks storing gasoline at a bulk gasoline terminal:
22		(1)	rim-mounted secondary seals on all external and internal floating roof tanks;
23		(2)	gaskets on deck fittings; and
24		(3)	floats in the slotted guide poles with a gasket around the cover of the poles.
25	(h) De	cks shall b	be required on all above ground tanks with a capacity greater than 19,800 gallons storing gasoline at
26	a bulk	gasoline te	erminal. All decks installed after June 30, 1998 shall comply with the following requirements:
27		(1)	deck seams shall be welded, bolted, or riveted; and
28		(2)	seams on bolted contact decks and on riveted contact decks shall be gasketed.
29	(i) If, 1	upon facil	ity or operational modification of a bulk gasoline terminal that existed before December 1, 1992, an
30	increas	e in benze	me emissions results such that:
31		(1)	emissions of volatile organic compounds increase by more than 25 tons cumulative at any time
32			during the five years following modifications; and
33		(2)	annual emissions of benzene from the eluster where cluster, which includes the bulk gasoline
34			terminal, terminal is located (including the pipelinepipeline, and marketing terminals served by the
35			pipeline) pipeline. exceed benzene emissions from that cluster based upon calendar year 1991
36			gasoline throughput and application of the requirements of this Subchapter,

1 then, the annual increase in benzene emissions due to the modification shall be offset within the eluster by reduction 2 in benzene emissions beyond that otherwise achieved from compliance with this Rule, in the ratio of at least 1.3 to 1. 3 (i) To qualify for exemption from the requirements under Paragraphs (e) through (i) of this Rule, the The owner or 4 operators of a bulk gasoline terminal that received an air quality permit before December 1, 1992 to emit toxic air 5 pollutants under 15A NCAC 02Q .0700 to comply with 15A NCAC 02D .1100 shall continue to follow all terms and 6 conditions of the permit issued under 15A NCAC 02Q .0700 and to bring the terminal into compliance with 15A 7 NCAC 02D .1100 according to the terms and conditions of the permit, and shall-in which case the bulk gasoline 8 terminal shall continue to need a maintain this permit to emit toxic air pollutants pollutants. and shall be exempted 9 from Paragraphs (e) through (i) of this Rule. 10 (k) The owner or operator of a bulk gasoline terminal shall not load, or allow to be loaded, gasoline into any cargo 11 tank unless the cargo tank has been certified leak tight according to 15A NCAC 02D .0932, .0960, and .2615..0932. 12 (1) The owner or operator of a bulk gasoline terminal shall have on file at the terminal a copy of the certification test 13 conducted according to 15A NCAC 02D .0932 for each gasoline cargo tank loaded at the terminal. 14 (m) Emissions of gasoline from degassing of external or internal floating roof tanks at a bulk gasoline terminal shall 15 be collected and controlled by at least 90 percent by weight. Liquid balancing shall not be used to degas gasoline 16 storage tanks at bulk gasoline terminals. Bulk gasoline storage tanks containing not more than 138 gallons of liquid 17 gasoline or the equivalent of gasoline vapor and gasoline liquid are exempted from the degassing requirements if 18 gasoline vapors are vented for at least 24 hours. Documentation of degassing external or internal floating roof tanks 19 shall be made according to 15A NCAC 02D .0903. 20 (n) According to 15A NCAC 02D .0903, the The owner or operator of a bulk gasoline terminal shall visually inspect 21 the following for leaks each day that the terminal is both manned and open for business: 22 (1)the vapor collection system; 23 (2)the vapor control system; and 24 each lane of the loading rack while a gasoline cargo tank is being loaded. (3)25 In accordance with 15A NCAC 02D .1903, the owner or operator shall maintain records of the visual inspections. If 26 no leaks are found, the owner or operator shall record that no leaks were found. If a leak is found, the owner or operator 27 shall record the information specified in Paragraph (p) of this Rule. The owner or operator shall repair all leaks found 28 according to Paragraph (q) of this Rule. 29 (o) The owner or operator of a bulk gasoline terminal shall inspect weekly for leaks: 30 (1)the vapor collection system; 31 (2)the vapor control system; and 32 each lane of the loading rack while a gasoline cargo tank is being loaded. (3)33 The weekly inspection shall be done using sight, sound, or smell; a meter used to measure volatile organic compounds; 34 or an explosimeter. An inspection using either a meter used to measure volatile organic compounds or an explosimeter

35 shall be conducted every month. If no leaks are found, the owner or operator shall record the date that the inspection

36 was done and that no leaks were found. If a leak is found, the owner or operator shall record the information specified

1	in Paragraph (p) of this Rule. The owner or operator shall repair all leaks found according to Paragraph (q) of this			
2	Rule.			
3	(p) For each lea	k found under Paragraph (n) or (o) of this Rule, the owner or operator of a bulk gasoline terminal		
4	shall record:			
5	(1)	the date of the inspection;		
6	(2)	the findings detailing the location, nature, and severity of each leak;		
7	(3)	the corrective action taken;		
8	(4)	the date when corrective action was completed; and		
9	(5)	any other information that the terminal deems necessary to demonstrate compliance.compliance		
10		with this Rule.		
11	(q) The owner o	r operator of a bulk gasoline terminal shall repair all leaks as follows:		
12	(1)	The vapor collection hose that connects to the cargo tank shall be repaired or replaced before another		
13		cargo tank is loaded at that rack after a leak has been detected originating with the terminal's		
14		equipment rather than from the gasoline cargo tank.		
15	(2)	All other leaks shall be repaired as expeditiously as possible but no later than 15 days from their		
16		detection. If more than 15 days are required to make the repair, the reasons that the repair cannot be		
17		made shall be documented, and the leaking equipment shall not be used after the fifteenth day from		
18		when the leak detection was found until the repair is made.		
19				
20	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5);		
21		Eff. July 1, 1979;		
22		Amended Eff. January 1, 2007; April 1, 2003; August 1, 2002; July 1, 1998; July 1, 1996; July 1,		
23		1994; December 1, 1992; December 1, 1989; January 1, 1985;		
24		Readopted Eff. November 1, 2020.<u>2020;</u>		
25		Amended Eff. November 1, 2023.		
26				

15A NCAC 02D .0928 is amended with changes as published in 37:17 NCR 1130 as follows:

3	15A NCAC 02D	.0928	GASOLINE SERVICE STATIONS STAGE I			
4	(a) Definitions. H	For the pu	urpose of this Rule, the following definitions apply:			
5	(1)	"Coaxia	l vapor recovery system" means the delivery of the gasoline and recovery of vapors			
6		occurrin	occurring through a single coaxial fill tube, which is a tube within a tube. Gasoline is delivered			
7		through	the inner tube, and vapor is recovered through the annular space between the walls of the			
8		inner tul	be and outer tube.			
9	(2)	"Deliver	ry vessel" means cargo tanks used for the transport of gasoline from sources or of supply to			
10		stationa	ry storage tanks of gasoline dispensing facilities.			
11	(3)	"Dual po	oint vapor recovery system" means the delivery of the product to the stationary storage tank			
12		and the	recovery of vapors from the stationary storage tank occurring through two separate openings			
13		in the st	orage tank and two separate hoses between the cargo tank and the stationary storage tank.			
14	(4)	"Gasoliı	ne" means a petroleum distillate having a Reid vapor pressure of four psi or greater.			
15	(5)	"Gasoliı	ne dispensing facility" means any site where gasoline is dispensed to motor vehicle gasoline			
16		tanks fro	om stationary storage tanks.			
17	(6)	"Gasoliı	ne service station" means any gasoline dispensing facility where gasoline is sold to the			
18		motorin	g public from stationary storage tanks.			
19	(7)	"Line" r	neans any pipe suitable for transferring gasoline.			
20	(8)	"Motor	"Motor Vehicle" means every vehicle which is self-propelled and every vehicle designed to run			
21		upon the	e highways which is pulled by a self-propelled [vehicle]vehicle. This term shall not including			
22		include	mopeds or electric assisted bicycles in accordance with N.C. Gen. Stat. 20-4.01.			
23	(8)<u>(9)</u>	"Operate	or" means any person who leases, operates, controls, or supervises a facility at which			
24		gasoline	e is dispensed.			
25	(9)<u>(10)</u>	"Owner	" means any person who has legal or equitable title to the gasoline storage tank at a facility.			
26	(10)<u>(11)</u>	"Poppet	ed vapor recovery adaptor" means a vapor recovery adaptor that automatically and			
27		immedia	ately closes itself when the vapor return line is disconnected and maintains a tight seal when			
28		the vapo	or return line is not connected.			
29	(11)<u>(12)</u>	"Station	ary storage tank" means a gasoline storage container that is a permanent fixture.			
30	(12)<u>(13)</u>	"Subme	rged fill pipe" means any fill pipe with a discharge opening that is entirely submerged when			
31		the pipe	normally used to withdraw liquid from the tank can no longer withdraw any liquid, or that			
32		is entire	ly submerged when the level of the liquid is:			
33		(A)	six inches above the bottom of the tank if the tank does not have a vapor recovery adaptor;			
34			or			
35		(B)	12 inches above the bottom of the tank if the tank has a vapor recovery adaptor. If the			
36			opening of the submerged fill pipe is cut at a slant, the distance is measured from the top			
37			of the slanted cut to the bottom of the tank.			

1	(13)<u>(</u>14)	"Throughput" means the amount of gasoline dispensed at a facility during a calendar month after
2		November 15, 1990.
3	(b) Applicability	7. This Rule applies to all gasoline dispensing facilities and gasoline service stations, and to delivery
4	vessels delivering	g gasoline to a gasoline dispensing facility or gasoline service station.
5	(c) Exemptions.	This Rule does not apply to:
6	(1)	transfers made to storage tanks at gasoline dispensing facilities or gasoline service stations equipped
7		with floating roofs or their equivalent; technology that achieves equivalent or greater emission
8		reductions as a floating roof;
9	(2)	stationary tanks with a capacity of not more than 2,000 gallons that are in place before July 1, 1979,
10		if the tanks are equipped with a permanent or portable submerged fill pipe;
11	(3)	stationary storage tanks with a capacity of not more than 550 gallons that are installed after June 30,
12		1979, if tanks are equipped with a permanent or portable submerged fill pipe;
13	(4)	stationary storage tanks with a capacity of not more than 2,000 gallons located on a farm or a
14		residence and used to store gasoline for farm equipment or residential use if gasoline is delivered to
15		the tank through a permanent or portable submerged fill pipe. This exemption does not apply in
16		ozone non-attainment areas;
17	(5)	stationary storage tanks at a gasoline dispensing facility or gasoline service station where the
18		combined annual throughput of gasoline at the facility or station does not exceed 50,000 gallons, if
19		the tanks are permanently equipped with submerged fill pipes; or
20	(6)	any tanks used exclusively to test the fuel dispensing meters.
21	(d) With except	ions stated in Paragraph (c) of this Rule, gasoline shall not be transferred from any delivery vessel
22	into any stationa	ry storage tank unless:
23	(1)	the tank is equipped with a submerged fill pipe, and the vapors displaced from the storage tank
24		during filling are controlled by a vapor control system as described in Paragraph (e) of this Rule;
25	(2)	the vapor control system is in good working order and is connected and operating with a vapor tight
26		connection; connection, and working as designed in accordance with the manufacturer's
27		specifications;
28	(3)	the vapor control system is properly maintained in accordance with the manufacturer's
29		specifications and the definition of "good operation and maintenance" in 15A NCAC 02D .0602,
30		and all damaged or malfunctioning components or elements of design are repaired, replaced, or
31		modified;
32	(4)	the gauges, meters, or other specified testing devices are maintained in accordance with the
33		manufacturer's specifications and the definition of "good operation and maintenance" in 15A
34		NCAC 02D .0602; in proper working order;
35	(5)	the delivery vessel and vapor collection system complies comply with 15A NCAC 02D .0932; and
36	(6)	the following records are kept in accordance with 15A NCAC 02D .0903:
37		(A) the scheduled date for maintenance or the date that a malfunction was detected;

1		(B) the date the maintenance was performed or the malfunction corrected; and		
2		(C) the component or element of design of the control system repaired, replaced, or modified.		
3	(e) The vapor co	ontrol system required by Paragraph (d) of this Rule shall include one or more of the following:		
4	(1)	a vapor-tight line from the storage tank to the delivery vessel, and:		
5		(A) for a coaxial vapor recovery system, either a poppeted or unpoppeted vapor recovery		
6		adaptor;		
7		(B) for a dual point vapor recovery system, a poppeted vapor recovery adaptor; or		
8	(2)	a refrigeration-condensation system or equivalent system designed to recover at least 90 percent by		
9		weight of the volatile organic compounds in the displaced vapor.		
10	(f) If an unpop	peted vapor recovery adaptor is used pursuant to Part (e)(1)(A) of this Rule, the tank liquid fill		
11	connection shall	remain covered either with a vapor-tight cap or a vapor return line, except when the vapor return line		
12	is being connected	ed or disconnected.		
13	(g) If an unpop	peted vapor recovery adaptor is used pursuant to Part (e)(1)(A) of this Rule, the unpoppeted vapor		
14	recovery adaptor	shall be replaced with a poppeted vapor recovery adaptor when the tank is replaced or is removed		
15	and upgraded.			
16	(h) Where vapor lines from the storage tanks are manifolded, poppeted vapor recovery adapters shall be used. No			
17	more than one ta	nk is to be loaded at a time if the manifold vapor lines are size 2.5 inches and smaller. If the manifold		
18	vapor lines are 3	.0 inches and larger, then two tanks at a time may be loaded.		
19	(i) Vent lines on	tanks with Stage I controls shall have pressure release valves or restrictors.		
20	(j) The vapor-la	den delivery vessel:		
21	(1)	shall be designed and maintained to be vapor-tight during loading and unloading operations and		
22		during transport with the exception of normal pressure/vacuum venting as required by the		
23		Department of Transportation; and		
24	(2)	if it is refilled in North Carolina, shall be refilled only at:		
25		(A) bulk gasoline plants complying with 15A NCAC 02D .0926; or		
26		(B) bulk gasoline terminals complying with 15A NCAC 02D .0927 or .0524.		
27				
28	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5);		
29		Eff. July 1, 1979;		
30		Amended Eff. July 1, 1996; July 1, 1994; March 1, 1991; December 1, 1989; January 1, 1985;		
31		Readopted Eff. November 1, 2020.<u>2020;</u>		
32		Amended Eff. November 1, 2023.		
33				
34				

15A NCAC 02D .0932 is amended with changes as published in 37:17 NCR 1130 as follows:

2				
3	15A NCAC 02D	0.0932 GASOLINE CARGO TANKS AND VAPOR COLLECTION SYSTEMS		
4	(a) For the purp	oses of this Rule, the following definitions apply:		
5	(1)	"Bottom filling" means the filling of a cargo tank or stationary storage tank through an opening flush		
6		with the tank bottom.		
7	(2)	"Bulk gasoline plant" means a gasoline storage and distribution facility with an average daily		
8		throughput of less than 20,000 gallons of gasoline and that typically receives gasoline from bulk		
9		terminals by trailercargo tank transport, stores it in tanks, and subsequently dispenses it via account		
10		cargo tanks to local farms, businesses, and service stations.		
11	(3)	"Bulk gasoline terminal" means:		
12		(A) a pipeline breakout station of an interstate oil pipeline facility; or		
13		(B) a gasoline storage facility that typically receives gasoline from refineries primarily by		
14		pipeline, ship, or barge; delivers gasoline to bulk gasoline plants or to commercial or retail		
15		accounts primarily by cargo tank; and has an average daily throughput of more than 20,000		
16		gallons of gasoline.		
17	(4)	"Cargo tank" means the storage vessels of freight trucks or trailers used to transport gasoline from		
18		sources of supply to stationary storage tanks of bulk gasoline terminals, bulk gasoline plants,		
19		gasoline dispensing facilities, and gasoline service stations.		
20	(5)	"Cargo tank testing facility" means any facility complying with registration in 49 CFR Part 107,		
21		Subpart F.		
22	(6)	"Cargo tank vapor collection equipment" means any piping, hoses, and devices on the cargo tank		
23		used to collect and route gasoline vapors in the tank to or from the bulk gasoline terminal, bulk		
24		gasoline plant, gasoline dispensing facility, or gasoline service station vapor control system or vapor		
25		balance system.		
26	(7)	"Gasoline" means any petroleum distillate having a Reid Vapor Pressure (RVP) of 4.0 psi or greater.		
27	(8)	"Gasoline dispensing facility" means any site where gasoline is dispensed to motor vehicle gasoline		
28		tanks from stationary storage tanks. For the purposes of this definition, "motor vehicle" has the		
29		meaning defined in 15A NCAC 02D .0928,		
30	(9)	"Gasoline service station" means any gasoline dispensing facility where gasoline is sold to the		
31		motoring public from stationary storage tanks.		
32	(10)	"Vapor balance system" means a combination of pipes or hoses that create a closed system between		
33		the vapor spaces of an unloading tank and a receiving tank such that vapors displaced from the		
34		receiving tank are transferred to the tank being unloaded.		
35	(11)	"Vapor collection system" means a vapor balance system or any other system used to collect and		
36		control emissions of volatile organic compounds.		

1 (b) This Rule applies to gasoline cargo tanks that are equipped for vapor collection and to vapor control systems at

2 bulk gasoline terminals, bulk gasoline plants, gasoline dispensing facilities, and gasoline service stations equipped

3 with vapor balance or vapor control systems.

- 4 (c) For cargo tanks, the following requirements shall apply:
- 5 (1)Gasoline cargo tanks and their vapor collection systems shall be tested annually by a cargo tank 6 testing facility. The facility shall follow the test procedure as defined by 15A NCAC 02D .2615 to 7 certify the gasoline cargo tank leak tight. The gasoline cargo tank shall not be used unless it is 8 certified leak tight. 9 (2)Each gasoline cargo tank that has been certified leak tight according to Subparagraph (1) of this 10 Paragraph(c)(1) of this Rule shall display a sticker near the Department of Transportation 11 certification plate required by 49 CFR 180.415. 12 (3)There shall be no liquid leaks from any gasoline cargo tank. 13 (4)Any cargo tank with a leak equal to or greater than 100 percent of the lower explosive limit, as 14 detected by a combustible gas detector using the test procedure described in 15A NCAC 02D .2615 15 shall not be used beyond 15 days after the leak has been discovered, unless the leak has been repaired 16 and the cargo tank has been certified to be leak tight according to Subparagraph (1) of this Paragraph. 17 (c)(1) of this Rule. 18 (5) The owner or operator of a gasoline cargo tank with a vapor collection system shall maintain records 19 of all leak testing and repairs. The records shall identify the gasoline cargo tank, the date of the test 20 or repair, and, if applicable, the type of repair and the date of retest. The records of leak tests shall 21 include: 22 (A) the name, address, and telephone number of cargo tank testing facility performing the leak 23 test; 24 **(B)** the name and signature of the individual performing the leak test; 25 (C) the name and address of the owner of the tank;
- 26 (D) the identification number of the tank;
 - (E) the documentation of tests performed including the date and summary of results;
 - (F) the continued qualification statement and returned to service status; and
- 29 (G) a list or description of identified corrective repairs to the tank. If none are performed then
 30 the report shall state "no corrective repairs performed."
- 31(6)A copy of the most recent leak testing report shall be kept with the cargo tank. The owner or operator32of the cargo tank shall also file a copy of the most recent leak testing report with each bulk gasoline33terminal that loads the cargo tank. The owner or operator shall maintain records shall be maintained34for at least two years after the date of the testing or repair, repair and make copies of such records35shall be made available within a reasonable time to the Director upon written request.

36 (d) For bulk gasoline terminals and bulk gasoline plants equipped with vapor balance or vapor control systems, the

37 following requirements shall apply:

27

28

1	(1)	The vapor collection system and vapor control system shall be designed and operated to prevent		
2		gauge pressure in the cargo tank from exceeding 18 inches of water and to prevent a vacuum of		
3		greater than six inches of water.		
4	(2)	During loading and unloading operations there shall be:		
5		(A) no vapor leakage from the vapor collection system such that a reading equal to or greater		
6		than 100 percent of the lower explosive limit at one inch around the perimeter of each		
7		potential leak source as detected by a combustible gas detector using the test procedure		
8		described in 15A NCAC 02D .2615; and		
9		(B) no liquid leaks.		
10	(3)	If a leak is discovered that exceeds the limit in Subparagraph (2) of this Paragraph: $(d)(2)$ of this		
11		<u>Rule:</u>		
12		(A) For bulk gasoline plants, the vapor collection system or vapor control system shall not be		
13		used beyond 15 days after the leak has been discovered, unless the leak has been repaired		
14		and the system has been retested and found to comply with Subparagraph (2) of this		
15		Paragraph;(d)(2) of this Rule;		
16		(B) For bulk gasoline terminals, the vapor collection system or vapor control system shall be		
17		repaired following the procedures in 15A NCAC 02D .0927.		
18	(4)	The owner or operator of a vapor collection system at a bulk gasoline plant or a bulk gasoline		
19		terminal shall test, according to Rule 15A NCAC 02D .0912, the vapor collection system at least		
20		once per year. If after two complete annual checks no more than 10 leaks are found, the Director		
21		shall allow less frequent monitoring. If more than 20 leaks are found, the Director shall require the		
22		frequency of monitoring be increased.		
23	(5)	The owner or operator of vapor control systems at bulk gasoline terminals, bulk gasoline plants,		
24		gasoline dispensing facilities, and gasoline service stations equipped with vapor balance or vapor		
25		control systems shall maintain records of all certification testing and repairs. The records shall		
26		identify each vapor collection system, or vapor control system; the date of the test or repair; and, if		
27		applicable, the type of repair and the date of retest.		
28				
29	History Note:	Authority G.S. 143-215.3(a)(1); <u>1</u>43-215.3(a)(1), (a)(4); 143-215.107(a)(5); <u>143-215.107; 143-</u>		
30		215.66		
31		Eff. July 1, 1980;		
32		Amended Eff. August 1, 2008; June 1, 2008; January 1, 2007; April 1, 2003; August 1, 2002; July		
33		1, 1994; December 1, 1989; January 1, 1985;		
34		Readopted Eff. October 1, 2020.2020;		
35		<u>Amended Eff. November 1, 2023.</u>		
36				
37				

1	15A NCAC 02D	.0960 is	repealed as published in 37:17 NCR 1130 as follows:
2			
3	15A NCAC 02D	.0960	CARGO TANK LEAK TESTER REPORT
4			
5	History Note:	Author	ity G.S. 143-215.3(a)(1); 143-215.107(a)(5), (13);
6		Eff. Ap	ril 1, 2003;
7		Amend	ed Eff. July 1, 2007;
8		Readop	oted Eff. October 1, 2020.<u>2020;</u>
9		<u>Repeal</u>	ed Eff. November 1, 2023
10			
11			

15A NCAC 02D .0961 is amended with changes as published in 37:17 NCR 1130 as follows:

3 15A NCAC 02D .0961 OFFSET LITHOGRAPHIC PRINTING AND LETTERPRESS PRINTING

4 (a) For the purposes of this Rule, the definitions listed in this Paragraph and 15A NCAC 02D .0101 and .0902 shall
5 apply.

6 7

8

9

 "Composite partial vapor pressure" means the sum of the partial pressure of the compounds defined as volatile organic compounds. Volatile organic compounds composite partial vapor pressure is calculated as follows:

$$PP_{c} = \sum_{i=1}^{n} \frac{(W_{i})(VP_{i})/MW_{i}}{\frac{W_{w}}{MW_{w}} + \frac{W_{c}}{MW_{c}} + \sum_{i=1}^{n} \frac{W_{i}}{MW_{i}}}$$

9		
10		Where:
11		Wi = Weight of the "i" volatile organic compound, in grams
12		Ww = Weight of water, in grams
13		Wc = Weight of exempt compound, in grams
14		MWi = Molecular weight of the "i" volatile organic compound, in g/g-mole
15		MWw = Molecular weight of water, in g/g-mole
16		MWc = Molecular weight of exempt compound, in g/g-mole
17		PPc = Volatile organic compounds composite partial vapor pressure at 20 degrees Celsius (68
18		degrees Fahrenheit), in mm Hg
19		VPi = Vapor pressure of the "i" volatile organic compound at 20 degrees Celsius (68 degrees
20		Fahrenheit), in mm Hg
21	(2)	"First installation date" means the actual date when this control device becomes operational. This
22		date does not change if the control device is later redirected to a new press.
23	(3)	"Fountain solution" means water-based solution that applies to lithographic plate to render the non-
24		image areas unreceptive to the ink.
25	(4)	"Heatset" means any operation in which heat is required to evaporate ink oils from the printing ink,
26		excluding ultraviolet (UV) curing, electron beam curing, and infrared drying.
27	(5)	"Letterpress printing" means a printing process in which the image area is raised relative to the non-
28		image area and the paste ink is transferred to the substrate directly from the image surface.
29	(6)	"Non heatset" "Non-heatset," also referred to as "coldset," means a lithographic printing process
30		where the printing inks are set by absorption or oxidation of the ink oil, not by evaporation of the
31		ink oils in a dryer. For the purposes of this Rule, use of an infrared heater or printing conducted
32		using ultraviolet-cured or electron beam-cured inks is considered non-heatset.
33	(7)	"Offset lithography" means a printing process that uses sheet-fed or web method of press feeding
34		and transfers ink from the lithographic plate to a rubber-covered intermediate "blanket" cylinder and
35		then from the blanket cylinder to the substrate.

1	(8)	(8) "Press" means a printing production assembly composed of one or more units used to produce a		
2		printed substrate including any associated coating, spray powder application, heatset web dryer,		
3		ultraviolet or electron beam curing units, or infrared heating units.		
4	(9)	(9) "Sheet-fed printing" means offset lithographic printing when individual sheets of paper or		
5	substrate are fed to the press.			
6	(10)	"Web printing" means offset lithographic printing when continuous rolls of substrate material are		
7		fed to the press and rewound or cut to size after printing.		
8	(b) This Rule a	applies to any offset lithographic and any letterpress printing operations sources that are not covered		
9	by 15A NCAC	02D .0966(c)(1) and whose emissions of volatile organic compounds exceed:		
10	(1)	the threshold established in 15A NCAC 02D .0902(b) and (f); or		
11	(2)	an equivalent level of three tons per 12-consecutive month rolling period.		
12	(c) Volatile c	organic compounds content in the fountain solution for on-press (as-applied) heatset web offset		
13	lithographic pr	inting shall meet one of the following requirements or the owner or operator may demonstrate a		
14	different metho	d that achieves an equivalent or greater level of control to those listed below, as determined in permit		
15	conditions:			
16	(1)	contain 1.6 percent alcohol or less, by weight, as applied, in the fountain solution:		
17	(2)	contain three percent alcohol or less, by weight, on-press (as-applied) in the fountain solution if the		
18		fountain solution is refrigerated to below 60 degrees Fahrenheit; or		
19	(3)	contain five percent alcohol substitute or less, by weight, on-press (as-applied) and no alcohol in the		
20		fountain solution.		
21	(d) Volatile of	rganic compounds content in the fountain solution for on-press (as-applied) sheet-fed lithographic		
22	printing shall n	neet one of the following requirements or the owner or operator may demonstrate a different method		
23	that achieves ar	equivalent or greater level of control to those listed below, as determined in permit conditions:		
24	(1)	contain five percent alcohol or less, by weight, on-press (as-applied) in the fountain solution;		
25	(2)	contain 8.5 percent alcohol or less, by weight, on-press (as-applied) in the fountain solution if the		
26		fountain solution is refrigerated to below 60 degrees Fahrenheit; or		
27	(3)	contain five percent alcohol substitute or less, by weight, on-press (as-applied) and no alcohol in the		
28		fountain solution.		
29	(e) Volatile org	anic compounds content in emissions from fountain solution from non-heatset web offset lithographic		
30	printing shall n	ot exceed five percent alcohol substitute (by weight) on-press (as-applied) and contain no alcohol in		
31	the fountain sol	ution.		
32	(f) An owner of	or operator of an individual web offset lithographic printing press dryer or letterpress-printing heatset		
33	press subject to	this Rule that has potential emissions of emits 25 or more tons per year potential emissions of volatile		
34	organic compo	unds shall:		
35	(1)	use an enforceable limitation on potential emissions to keep individual heatset press below 25 tons		
36		per year potential to emit volatile organic compounds (petroleum ink oil) threshold, which canshall		
37		be achieved by using inks and coatings that contain less than 31.25 tons per year volatile organic		

1		compound (petroleum ink oil) where 20 percent retention factor of petroleum ink oil applies, or by		
2		using other methods established by permit conditions; or		
3	(2)	use an add-on control system that meets one of the following requirements:		
4		(A) reduces volatile organic compounds emissions from each dryer by at least 90 percent		
5		volatile organic compounds emissions control efficiency established by procedures defined		
6		in Paragraph (h) of this Rule for a control device from heatset dryers whose first installation		
7		date was prior to July 1, 2010, at facilities with potential to emit 100 tons or more of volatile		
8		organic compounds per year;		
9		(B) reduces volatile organic compounds emissions from each dryer by at least 90 percent		
10		volatile organic compounds emissions control efficiency established by procedures defined		
11		in Paragraph (h) of this Rule for a control device from heatset dryers whose first installation		
12		date was prior to May 1, 2013, at facilities with potential to emit less than 100 tons of		
13		volatile organic compounds per year;		
14		(C) reduces volatile organic compounds emissions from each dryer by at least 95 percent		
15		volatile organic compounds emissions control efficiency established by procedures defined		
16		in Paragraph (h) of this Rule for a control device from heatset dryers whose first installation		
17		date was on or after July 1, 2010, at facilities with potential to emit 100 tons or more of		
18		volatile organic compounds per year;		
19		(D) reduces volatile organic compounds emissions from each dryer by at least 95 percent		
20		volatile organic compounds emissions control efficiency established by procedures defined		
21		in Paragraph (h) of this Rule for a control device from heatset dryers whose first installation		
22		date was on or after May 1, 2013, at facilities with potential to emit less than 100 tons of		
23		volatile organic compounds per year; or		
24		(E) maintains a maximum volatile organic compounds outlet concentration of 20 parts per		
25		million by volume (ppmv), as hexane (C_6H_{14}) on a dry basis.		
26	(g) The control	limits established in:		
27	(1)	Paragraphs (c), (d), and (e) of this Rule shall not be applied to any press with total fountain solution		
28		reservoir of less than one gallon;		
29	(2)	Paragraph (d) of this Rule shall not be applied to sheet-fed presses with maximum sheet size 11x 17		
30		inches or smaller; and		
31	(3)	Subparagraph $(f)(2)$ of this Rule shall not be applied to a heatset press used for book printing, or to		
32		a heatset press with maximum web width of 22 inches or less.		
33	(h) If the owne	r or operator of a printing press is required by permit conditions to determine:		
34	(1)	the volatile organic compounds content, Method 24 of Appendix A to 40 CFR Part 60 or approved		
35		alternative methods pursuant to 15A NCAC 02D .2602(h) shall be used; and		

1	(2)	the co	ntrol efficiency by measuring volatile organic compounds at the control device inlet and outlet,
2		Metho	ods 18, 25, or 25A of Appendix A to 40 CFR Part 60, or approved alternative methods pursuant
3		to 15A	A NCAC 02D .2602(h) shall be used.
4	(i) All test met	hods def	ined in Paragraph (h) of this Rule shall be conducted at typical operating conditions and flow
5	rates.rates usin	g the san	ne day-to-day production prior to the test to ensure that the test results are representative of
6	routine operation	ons.	
7	(j) The owner	or operat	tor of any facility subject to this Rule shall demonstrate compliance with RACT applicability
8	requirements b	y calcula	ting volatile organic compounds emissions and keep records of the basis of the calculations
9	required by 15	A NCAC	02D .0605 and .0903. Volatile organic compounds emissions from offset lithographic printing
10	and letterpress	printing	shall be determined by permit condition requirements or by using the following retention and
11	capture efficien	ncy factor	rs:
12	(1)	the ret	tention factors are:
13		(A)	20 percent for heatset petroleum ink oils;
14		(B)	100 percent for heatset vegetable ink oils;
15		(C)	95 percent for sheet-fed and coldset web petroleum ink oils; and
16		(D)	100 percent for sheet-fed and coldset web vegetable ink oils.
17	(2)	the re	tention factor is 50 percent for low volatile organic compounds composite vapor pressure
18		cleani	ng materials in shop towels where:
19		(A)	volatile organic compounds composite vapor pressure of the cleaning material is less than
20			10 mm Hg at 20°C; 20 degrees Celsius; and
21		(B)	cleaning materials and used shop towels are kept in closed containers.
22	(3)	carryc	over (capture) factors of volatile organic compounds from automatic blanket wash and fountain
23		solutio	on to offset lithographic heatset dryers are:
24		(A)	40 percent VOC carryover (capture) factor for automatic blanket washing when the volatile
25			organic compounds composite vapor pressure of the cleaning material is less than 10mm
26			Hg at -20°C. 20 degrees Celsius.
27		(B)	70 percent VOC carryover (capture) factor for alcohol substitutes in fountain solution.
28	(4)	captur	re efficiency for volatile organic compounds (petroleum ink oils) from oil-based paste inks and
29		oil-ba	sed paste varnishes (coatings) in heatset web offset lithographic presses and heatset web
30		letterp	press presses shall be demonstrated by showing that the dryer is operating at negative pressure
31		relativ	ve to the surrounding pressroom. As long as the dryer is operated at negative pressure, the
32		captur	re efficiency for VOC from the heatset lithographic inks and varnishes (coatings) formulated
33		with 1	ow volatility ink oils is 100 percent of the VOC (ink oils) volatilized in the dryer. Capture
34		efficie	ency test is not required in this situation.
35	(k) Except as	specified	in this Paragraph, all cleaning materials used for cleaning a press, press parts, or to remove
36	dried ink from	areas aro	und the press shall meet one of the following requirements:
37	(1)	the vo	latile organic compounds content shall be less than 70 percent by weight; or

1	(2)	composite partial vapor pressure of volatile organic compounds shall be less than 10 mm Hg at 20			
2		degrees Celsius.			
3	No more than 110 gallons per year of cleaning materials that do not meet the requirements of Subparagraph-(1) or (2)				
4	of this Paragraph (k)(1) or (k)(2) of this Rule shall be used during any 12 consecutive months.				
5	(l) The owner of	r operator of any facility subject to this Rule shall maintain the following records for a minimum of			
6	five years:				
7	(1)	parametric monitoring for processes and control devices as determined and at the frequency			
8		specified in the permit or by Paragraph (f) of this Rule;			
9	(2)	the total amount of each individual or class of fountain solution and ink used monthly for the printing			
10		operations and the percentage of volatile organic compounds, alcohol, and alcohol substitute as			
11		applied in it;			
12	(3)	the total amount of each individual or class of cleaning solutions used monthly with vapor pressure			
13		and the percentage of volatile organic compounds as applied in it;			
14	(4)	the total amount of cleaning solutions used monthly with the vapor pressure and the percentage of			
15		volatile organic compounds as applied that does not meetnot meeting the vapor pressure or			
16		percentage of volatile organic compounds requirements of as required in Paragraph (k) of this Rule;			
17	(5)	the temperature of fountain solutions for lithographic printing presses using alcohol at the frequency			
18		specified in the permit; and			
19	(6)	any other parameters required by the permit in accordance with 15A NCAC 02D .0605 and .0903.			
20	(m) The owner of	or operator of any source subject to this Rule shall comply with 15A NCAC 02D .0903 and .0958.			
21					
22	History Note:	Authority G.S. 143-215.3(a)(1); <u>1</u>43-215.3(a)(1), (a)(4); 143-215.66; 143-215.107(a)(5);			
23		Eff. September 1, 2010;			
24		Amended Eff. May 1, 2013;			
25		Readopted Eff. November 1, 2020.<u>2020;</u>			
26		Amended Eff. November 1, 2023.			
27					

15A NCAC 02D .0964 is amended with changes as published in 37:17 NCR 1130 as follows:

2			
3	15A NCAC 021	0.0964 MISCELLANEOUS INDUSTRIAL ADHESIVES	
4	(a) For the purp	ose of this Rule, the following definitions apply:	
5	(1)	"Air-assisted airless spray" means a system that consists of an airless spray gun with a compressed	
6		air jet at the gun tip to atomize the adhesive.	
7	(2)	"Airless spray" means the application of using a pump forcing an adhesive through an atomizing	
8		nozzle at high pressure of 1,000 to 6,000 pounds per square inch by a pump forces.inch.	
9	(3)	"Application process" means a process that consists of a series of one or more adhesive applicators	
10		and any associated drying area or oven where an adhesive is applied, dried, and cured.	
11	(4)	"Dip coating" means application where substrates are dipped into a tank containing the adhesive.	
12		The substrates are then withdrawn from the tank and any excess adhesive is allowed to drain.	
13	(5)	"Electrocoating" means a specialized form of dip coating where opposite electric charges are applied	
14		to the waterborne adhesive and the substrate.	
15	(6)	"Electrostatic spray" means application where the adhesive and substrate are oppositely charged.	
16	(7)	"Flow coating" means conveying the substrate over an enclosed sink where the adhesive is applied	
17		at low pressure as the item passes under a series of nozzles.	
18	(8)	"HVLP" means a system with specialized nozzles that provide provides better air and fluid flow than	
19		conventional air atomized spray systems at low air pressure, shape spray pattern, and guideguides	
20		high volumes of atomized adhesive particles to the substrate using lower air pressure of 10 pounds	
21		per square inch or less at the spray cap.	
22	(9)	"Miscellaneous industrial adhesives" means adhesives, including adhesive primers used in	
23		conjunction with certain types of adhesives adhesives, used at industrial manufacturing and repair	
24		facilities for a wide variety of products and equipment that operate adhesives application processes.	
25	(10)	"Roll coating," "brush coating," and "hand application" means application of high viscosity	
26		adhesives onto small surface area.areas.	
27	(b) Control of	volatile organic compounds emissions from miscellaneous industrial adhesives product categories	
28	covered by 15A NCAC 02D .0923, .0935, .0961, .0962, .0963, .0965, .0966, .0967, and .0968 are exempted from the		
29	requirements of	this Rule.	
30	(c) This Rule a	applies to miscellaneous industrial adhesive application sources whose volatile organic compounds	
31	emissions meet	the threshold established in 15A NCAC 02D .0902(b).	
32	(d) With the ex-	ception established in Paragraph (b) of this Rule, all volatile organic compounds containing materials	
33	applied by each	miscellaneous industrial adhesive application processes before control shall:	
34	(1)	not exceed limits established in Table 1 Tables 1, 2, and 3 of this Rule; and	
35	(2)	be used in one of the following application methods in conjunction with using low volatile organic	
36		compounds adhesives or adhesive primers:	
37		(A) electrostatic spray;	

(A) electrostatic spray;

1		(B)	HVLP spray;	
2		(C)	flow coat;	
3		(D)	roll coat or hand application, inc	cluding non-spray application methods similar to hand or
4			mechanically powered caulking	gun, brush, or direct hand application;
5		(E)	dip coat including electrodes pos	sition;
6		(F)	airless spray;	
7		(G)	air-assisted airless spray; or	
8		(H)	any other adhesive application m	ethod capable of achieving a transfer efficiency equivalent
9			to or better than that achieved by	HVLP spraying.
10	(e) Emission limits established in Subparagraph (d)(1) of this Rule shall be:			nis Rule shall be:
11	(1)	met by	averagingcalculating the arithme	tic mean of the volatile organic compounds content of
12		materia	ls used on a single application uni	t for each day; and
13	(2)	calculat	ed as mass of volatile organic cor	npounds per volume of adhesive primer, excluding water
14		and exe	mpt compounds, as applied.	
15	(f) If an adhesiv	ve is used	to bond dissimilar substrates toge	ther in <u>a g</u> eneral adhesive application process as set forth
16	in <u>Table Tables</u> :	1 <u>, 2, or 3,</u>	then the applicable substrate categ	ory with the highest volatile organic compounds emission
17	limit shall be est	ablished	as the limit for such application.	
18				
19	Table 1. Volatile	o Organic	Compounds Emission Limits for	General and Specialty Adhesive Application Process.
	General Adhesiv	e Applica	ation Processes	VOC Emission Limit (lb/gal)
	Reinforced Plast	ic Compo	osite	1.7
	Flexible vinyl			2.1
	Metal			0.3
	Porous Material	(Except V	Wood)	1
	Rubber			2.1

General Adhesive Application Processes	VOC Emission Limit (lb/gal)
Reinforced Plastic Composite	1.7
Flexible vinyl	2.1
Metal	0.3
Porous Material (Except Wood)	1
Rubber	2.1
Wood	0.3
Other Substrates	2.1
Specialty Adhesive Application Processes	VOC Emission Limit (lb/gal)
Ceramic Tile Installation	1.1
Contact Adhesive	2.1
Cove Base Installation	1.3
Floor Covering Installation (Indoor)	1.3
Floor Covering Installation (Outdoor)	2.1
Floor Covering Installation (Perimeter Bonded Sheet Vinyl)	5.5
Metal to Urethane/Rubber Molding or Casting	7.1

Motor Vehicle Adhesive	2.1
Motor Vehicle Weatherstrip Adhesive	6.3
Multipurpose Construction	1.7
Plastic Solvent Welding (ABS)	3.3
Plastic Solvent Welding (Except ABS)	4.2
Sheet Rubber Lining Installation	7.1
Single Ply Roof Membrane Installation/Repair (Except EPDM)	2.1
Structural Glazing	0.8
Thin Metal Laminating	6.5
T ire Repair	0.8
Waterproof Resorcinol Glue	1.4
Adhesive Primer Application Processes	VOC Emission Limit1[Limit] (lb/gal)
Motor Vehicle Glass Bonding Primer	7.5
Plastic Solvent Welding Adhesive Primer	5.4
Single Ply Roof Membrane Adhesive Primer	2.1
Other Adhesive Primer	2.1
Table 1. Volatile Organic Compounds Emission Limits for	General Adhesive Application Processes.
General Adhesive Application Processes	VOC Emission Limit (lb/gal)

1	
1	

General Adhesive Application Processes	VOC Emission Limit (lb/gal)
Reinforced Plastic Composite	1.7
Flexible vinyl	2.1
Metal	0.3
Porous Material (Except Wood)	1
Rubber	2.1
Wood	0.3
Other Substrates	2.1

3 Table 2. Volatile Organic Compounds Emission Limits for Specialty Adhesive Application Processes.

Specialty Adhesive Application Processes	VOC Emission Limit (lb/gal)
Ceramic Tile Installation	1.1
Contact Adhesive	2.1
Cove Base Installation	1.3
Floor Covering Installation (Indoor)	1.3
Floor Covering Installation (Outdoor)	2.1
Floor Covering Installation (Perimeter Bonded Sheet Vinyl)	5.5

Metal to Urethane/Rubber Molding or Casting	7.1
Motor Vehicle Adhesive	2.1
Motor Vehicle Weatherstrip Adhesive	<u>6.3</u>
Multipurpose Construction	1.7
Plastic Solvent Welding (ABS)	3.3
Plastic Solvent Welding (Except ABS)	4.2
Sheet Rubber Lining Installation	7.1
Single-Ply Roof Membrane Installation/Repair (Except EPDM)	2.1
Structural Glazing	0.8
Thin Metal Laminating	6.5
Tire Repair	0.8
Waterproof Resorcinol Glue	1.4

Table 3. Volatile Organic Compounds Emission Limits for Adhesive Primer Application Processes.

Adhesive Primer Application Processes	VOC Emission Limit (lb/gal)
Motor Vehicle Glass Bonding Primer	7.5
Plastic Solvent Welding Adhesive Primer	5.4
Single-Ply Roof Membrane Adhesive Primer	2.1
Other Adhesive Primer	2.1

3

(g) Any miscellaneous industrial adhesive application processes process subject to this Rule, which chooses to use
add-on control for adhesive application processes rather than to comply with the emission limits established in
Paragraph (d) of this Rule, shall install control equipment with overall control efficiency of 85 percent or use a
combination of adhesives and add-on control equipment on an application process to meet limits established in
Paragraph (d) of this Rule.
(h) EPA Method 24 or 25A of Appendix A to 40 CFR Part 60 shall be used to determine the volatile organic

compounds content of adhesives, other than reactive adhesives, as defined in 40 CFR 63.3981, and the procedure established in Appendix A of the NESHAP for surface coating of plastic parts (40 CFR Part 63, Subpart PPPP) shall

12 be used to determine the volatile organic compounds content of reactive adhesives unless the facility maintains records

13 to document the volatile organic compounds content of adhesives from the manufacturer.

(i) The owner or operator of any facility subject to this Rule shall comply with the 15A NCAC 02D .0903 and .0958.

16	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107(a)(5);
17		Eff. September 1, 2010;
18		Readopted Eff. November 1, 2020.2020;

19 <u>Amended Eff. November 1, 2023.</u>

15A NCAC 02D .1403 is amended as published in 37:17 NCR 1130 as follows:

3	15A NCAC 02D	.1403	COMPLIANCE SCHEDULES
4	(a) Applicability	. This R	ule applies to sources regulated by 15A NCAC 02D .1402(d), (e), (f), or (g).
5	(b) Maintenance	area an	d Charlotte ozone nonattainment area contingency plan. The owner or operator of a source
6	subject to this R	ule beca	ause of the applicability of 15A NCAC 02D .1402(d), (e), (f), or (g) shall adhere to the
7	following increm	ents of p	progress and schedules:
8	(1)	If comp	pliance with this Section is to be achieved through a demonstration to certify compliance
9		without	t source modification:
10		(A)	The owner or operator shall notify the Director in writing within six months after the
11			Director's notice in the North Carolina Register that the source is in compliance with the
12			applicable limitation or standard;
13		(B)	The owner or operator shall perform any required testing, pursuant to 15A NCAC 02D
14			.1415, within 12 months after the Director's notice in the North Carolina Register to
15			demonstrate compliance with the applicable limitation; and
16		(C)	The owner or operator shall implement any required recordkeeping and reporting
17			requirements pursuant to 15A NCAC 02D .1404, within 12 months after the Director's
18			notice in the North Carolina Register to demonstrate compliance with the applicable
19			limitation.
20	(2)	If comp	pliance with this Section is to be achieved through the installation of combustion modification
21		technol	ogy or other source modification:
22		(A)	The owner or operator shall submit a permit application pursuant to 15A NCAC 02Q and
23			a compliance schedule within six months after the Director's notice in the North Carolina
24			Register.
25		(B)	The compliance schedule shall contain the following increments of progress:
26			(i) a date by which contracts for installation of the modification shall be awarded or
27			orders shall be issued for purchase of component parts;
28			(ii) a date by which installation of the modification shall begin;
29			(iii) a date by which installation of the modification shall be completed; and
30			(iv) if the source is subject to a limitation in a permit, a date by which compliance
31			testing shall be completed.
32		(C)	Final compliance shall be achieved within three years after the Director's notice in the
33			North Carolina Register unless the owner or operator of the source petitions the Director
34			for an alternative limitation pursuant to 15A NCAC 02D .1412. If a petition has been
35			submitted and approved, final compliance shall be achieved within four years after the
36			Director's notice in the North Carolina Register.

1	(3)	If compliance with this Section is to be achieved through the implementation of an emissions		
2		averagi	ing plan pursuant to 15A NCAC 02D .1410;	
3		(A)	The owner or operator shall abide by the applicable requirements of Subparagraphs (1) or	
4			(2) of this ParagraphSubparagraphs (b)(1) or (b)(2) of this Rule for certification or	
5			modification of each source to be included under the averaging plan.	
6		(B)	The owner or operator shall submit a plan to implement an emissions averaging plan	
7			pursuant to 15A NCAC 02D .1410 within six months after the Director's notice in the North	
8			Carolina Register.	
9		(C)	Final compliance shall be achieved within one year after the Director's notice in the North	
10			Carolina Register unless implementation of the emissions averaging plan requires the	
11			modification of one or more of the averaging sources. If modification of one or more of	
12			the averaging sources is required, final compliance shall be achieved within three years.	
13	(4)	If com	pliance with this Section is to be achieved through the implementation of a seasonal fuel	
14		switchi	ng program pursuant to 15A NCAC 02D .1411:	
15		(A)	The owner or operator shall make all necessary modifications according to Subparagraph	
16			(2) of this Paragraph.Subparagraph (b)(2) of this Rule.	
17		(B)	The owner or operator shall include a plan for complying with the requirements of 15A	
18			NCAC 02D .1411 with the permit application required under Part (2)(A) of this	
19			Subparagraph.in <mark>[Subparagraph (b)(2)] Part (b)(2)(A) of this Rule.</mark>	
20		(C)	Final compliance shall be achieved within three years after the Director's notice in the	
21			North Carolina Register.	
22	(5)	Increm	ents of progress certification. The owner or operator shall certify to the Director, within five	
23		days af	ter each increment deadline of progress in this Paragraph, whether the required increment of	
24		progres	ss has been met.	
25	(c) Nonattainme	ent areas	. The owner or operator of a source subject to this Rule because of the applicability of 15A	
26	NCAC 02D .140	2(d), sha	all adhere to the following:	
27	(1)	If com	pliance with this Section is to be achieved through a demonstration to certify compliance	
28		withou	t source modification:	
29		(A)	The owner or operator shall notify the Director in writing by August 1, 2007;	
30		(B)	The owner or operator shall perform any required testing, according to 15A NCAC 02D	
31			.1415, by January 1, 2008; and	
32		(C)	The owner or operator shall implement any required recordkeeping and reporting	
33			requirements, according to 15A NCAC 02D .1404, by January 1, 2008.	
34	(2)	If comp	pliance with this Section is to be achieved through the installation of combustion modification	
35		technol	logy or other source modification:	
36		(A)	The owner or operator shall submit a permit application and a compliance schedule by	
37			August 1, 2007.	

1		(B)	The compliance schedule shall contain a date by which contracts for installation of the
2			modification shall be awarded or orders shall be issued for purchase of component parts.
3		(C)	The compliance schedule shall contain a date by which installation of the modification
4			shall begin.
5		(D)	The compliance schedule shall contain a date by which installation of the modification
6			shall be completed.
7		(E)	If the source is subject to a limitation, the compliance schedule shall contain, a date by
8			which compliance testing shall be completed.
9		(F)	Final compliance shall be achieved no later than April 1, 2009.
10	(3)	If com	pliance with this Section is to be achieved through the implementation of an emissions
11		averagi	ng plan as provided for in 15A NCAC 02D .1410:
12		(A)	The owner or operator shall abide by the applicable requirements of Subparagraph (1) or
13			(2) of this ParagraphSubparagraphs (c)(1) or (c)(2) of this Rule for certification or
14			modification of each source to be included under the averaging plan.
15		(B)	The owner or operator shall submit a plan to implement an emissions averaging plan
16			according to 15A NCAC 02D .1410 by August 1, 2007.
17		(C)	Final compliance shall be achieved within one year no later than January 1, 2008.
18	(4)	If comp	pliance with this Section is to be achieved through the implementation of a seasonal fuel
19		switchi	ng program as provided for in 15A NCAC 02D .1411:
20		(A)	The owner or operator shall make all necessary modifications according to Subparagraph
21			(2) of this Paragraph.Subparagraph (c)(2) of this Rule.
22		(B)	The owner or operator shall include a plan for complying with the requirements of 15A
23			NCAC 02D .1411 with the permit application required under Part (2)(A) of this
24			Subparagraph.in[Subparagraph (c)(2)] Part (c)(2)(A) of this Rule.
25		(C)	Final compliance shall be achieved no later than April 1, 2009.
26	(5)	Increm	ents of progress certification. The owner or operator shall certify to the Director, within five
27		days af	ter the deadline for each increment of progress in this Paragraph, whether the required
28		increme	ent of progress has been met.
29	29 (d) Sources already in compliance.		
30	(1)	Mainter	nance area and Charlotte ozone nonattainment area contingency plan. Paragraph (b) of this
31		Rule sh	all not apply to sources that<u>t</u>hat:
32		<u>(A)</u>	_are in compliance with the applicable rules of this Section when the Director notices in the
33		<u>North (</u>	Carolina Register the implementation of rules in the North Carolina Register that resolves a
34		violatio	n of the ambient air quality standard for ozone <u>ozone;</u> and
35		<u>(B)</u>	that hashave determined and certified compliance to the Director within six months after
36		the Dire	ector notices <u>in the North Carolina Register</u> the implementation of rules in the North Carolina
37		Registe	\mathbf{F} that resolves a violation of the ambient air quality standard for ozone.

1	(2)	Nonattainment areas. Paragraph (c) of this Rule shall not apply to sources in an area named in 15A
2		NCAC 02D .1402(d) that are in compliance with applicable rules of this Section on March 1, 2007.
3	(e) New source	S.
4	(1)	Maintenance area and Charlotte ozone nonattainment area contingency plan. The owner or operator
5		of any new source of nitrogen oxides not permitted before the date the Director notices in the North
6		Carolina Register according to 15A NCAC 02D .1402(e), (f), or (g) shall comply with all applicable
7		rules in this Section upon start-up of the source. The owner or operator of any new source covered
8		by 15A NCAC 02D .1407, .1408, .1409, .1413, or .1418 shall comply with all applicable rules in
9		this Section upon start-up of the source.
10	(2)	Nonattainment areas. The owner or operator of any new source of nitrogen oxides not permitted
11		before March 1, 2007 in an area identified in 15A NCAC 02D .1402(d) shall comply with all
12		applicable rules in this Section upon start-up of the source.
13		
14	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.65; 143.215.107(a)(5); 143.215.107(a)(7);
15		143.215.107(a)(10);
16		Eff. April 1, 1995;
17		Amended Eff. April 1, 1997;
18		Temporary Amendment Eff. November 1, 2000;
19		Amended Eff. April 1, 2001;
20		Temporary Amendment Eff. August 1, 2001;
21		Amended Eff. July 1, 2007; March 1, 2007; July 18, 2002;
22		Readopted Eff. October 1, 2020.<u>2020;</u>
23		<u>Amended Eff. November 1, 2023.</u>
24		
25		

15A NCAC 02D .1708 is amended with changes as published in 37:17 NCR 1130 as follows:

- 2 3 15A NCAC 02D .1708 **REPORTING REQUIREMENTS** 4 (a) The owner or operator of an existing MSW landfill subject to this Rule according to 15A NCAC 02D .1702 shall 5 submit a design capacity report to the Director as follows: 6 (1)The initial design capacity report shall be submitted no later than 90 days after the effective date of 7 the EPA approval of the State Plan pursuant to Section 111(d) of the Clean Air Act. 8 (2)The initial design capacity report shall contain the information given in 40 CFR 60.38f(a)(1) and 40 9 CFR 60.38f(a)(2). 10 (b) The owner or operator of an existing MSW landfill subject to this Section shall submit an amended design capacity 11 report providing notification of an increase in the design capacity of the landfill, within 90 days of an increase in the 12 maximum design capacity of the landfill to meet or exceed 2.5 million megagrams and 2.5 million cubic meters. An 13 increase in design capacity may result from an increase in the permitted volume of the landfill or an increase in the 14 density as documented in the annual recalculation required in 15A NCAC 02D .1709(j). 15 (c) The owner or operator of an existing MSW landfill subject to this Rule shall submit a NMOC emission rate report 16 to the Director no later than 90 days after the effective date of EPA approval of the State plan pursuant to Section 17 111(d) of the Clean Air Act and annually thereafter, except as provided for in 40 CFR 60.38f(c). The NMOC emission 18 rate report shall: 19 contain an annual or five-year estimate of the NMOC emission rate calculated using the formula (1)20 and procedures provided in 40 CFR 60.35f(a) or (b), as applicable; 21 (2) include all the data, calculations, sample reports, and measurements used to estimate the annual or 22 five-year emissions; and 23 (3)if the estimated NMOC emission rate as reported in the annual report is less than 34 megagrams per 24 year in each of the next five consecutive years, the owner or operator may elect to submit an estimate 25 of the NMOC emission rate for the next five-year period in lieu of the annual report. This estimate 26 shall include the current amount of solid waste-in-place and the estimate waste acceptance rate for 27 each year of the five years for which an NMOC emission rate is estimated. All data and calculations 28 shall be provided. This estimate shall be revised at least once every five years. If the actual waste 29 acceptance rate exceeds the estimated waste acceptance rate in any year reported in the five-year 30 estimate, a revised five-year estimate shall be submitted. The revised estimate shall cover the five-31 year period beginning with the year in which the actual waste acceptance rate exceeded the estimated 32 waste acceptance rate. 33 Each owner and operator subject to the requirements of this Rule shall be exempted from the requirements to submit 34 an NMOC emission rate report, after installing a compliant collection and control system, during such time as the 35 collection and control system is in operation and in compliance with 15A NCAC 02D .1705 and .1706. 36 (d) The owner or operator of an existing MSW landfill subject to 15A NCAC 02D .1703(b) shall submit a collection
- 37 and control system design plan to the Director within one year of the first NMOC emission rate report, required under

1 Paragraph (c) of this Rule, in which the emission rate equals or exceeds 34 megagrams per year, except as provided

- for in 40 CFR 60.38f(d)(4)(i), 60.38f(d)(4)(ii), and 60.38f(d)(4)(iii). The collection and control system design plan
 shall include:
- 5 shall include:

4

- (1) a description of the collection and control system;
- 5(2)a description of any alternatives to the operational standards, test methods, procedures, compliance6measures, monitoring, recordkeeping, or reporting provisions provided in this Rule; and
- 7 (3) a description indicating how the plan conforms to specifications for active collection systems or a
 8 demonstration of sufficient alternative provisions as given in 40 CFR 60.40f.

9 (e) The owner or operator of an existing MSW landfill who has already previously submitted a design plan pursuant

10 to Paragraph (d)- of this Rule, pursuant to 40 CFR Part 60, Subpart WWW, or a State plan implementing 40 CFR Part

11 60, Subpart Cc, shall submit a revised design plan that includes the information in Subparagraphs (d)(1) through

- 12 (d)(3).(d)(3) of this [Rule.]Rule The revised design plan shall be submitted to the Director as follows:
- 13
 (1) at least 90 days before expanding operations to an area no not covered by the previously approved

 14
 design plan; and
- 15 16
- (2) prior to installing or expanding the gas collection system in a way that is not consistent with the
- design plan that was submitted to the Director in Paragraph (d) of this Rule.

17 (f) The owner or operator of a controlled <u>MSW</u> landfill shall submit a closure report <u>meeting the requirements of 40</u>

18 CFR 258.60 to the Director within 30 days of cessation of waste acceptance. If a closure report has been submitted to

19 the Director, no additional waste shall be placed into the landfill without first filing a notification of modification as

20 described pursuant to 40 CFR 60.7(a)(4). The Director may request such additional information to verify that

21 permanent closure of the MSW landfill has taken place pursuant to the requirements of 40 CFR 258.60.

(g) The owner or operator of a controlled MSW landfill shall submit an equipment removal report 30 days prior to removal or cessation of operation of the control equipment according to 15A NCAC 02D .1703(f). The report shall contain the items listed in 40 CFR 60.38f(g). The Director may request such additional information to verify that all

- 25 the conditions for removal in 40 CFR 60.33f(f) have been met.
- 26 (h) The owner or operator of a MSW landfill seeking to comply with 15A NCAC 02D .1703(b) using an active
- 27 collection system designed in accordance with 40 CFR 60.33f(b) shall submit, following the procedures pursuant to
- 28 <u>40 CFR</u> 60.38f(j)(2), annual reports of the recorded information in 40 CFR 60.38f(h)(1) through (h)(7). The initial

annual report shall be submitted within 180 days of installation and start-up of the collection and control system, and

- 30 shall include the initial performance test report required under 40 CFR 60.8. The initial performance test report shall
- 31 be submitted by following the procedures pursuant to 40 CFR 60.38f(j)(1). Each owner or operator that chooses to
- 32 comply with the operational provisions of 40 CFR 63.1958, 63.1960, and 63.1961, as allowed by 15A NCAC 02D
- 33 .1705, .1706, and .1707-the owner or operator shall follow the semi-annual reporting requirements in 40 CFR
- 34 63.1981(h) in lieu of this Paragraph.

35 (i) The owner or operator of an existing MSW landfill required to comply with 15A NCAC 02D .1703(b) shall include

36 the information given in 40 CFR 60.38f(i)(1) through (i)(6) with the initial performance test report required pursuant

to 40 CFR 60.8.

- 1 (j) The owner or operator of an existing MSW landfill shall submit a report within 60 days after the date of completing
- 2 each performance test pursuant to 40 CFR 60.38f(j).
- 3 (k) The owner or operator of an existing MSW landfill required to implement corrective active, action, shall submit
- 4 reports to the Director pursuant to 40 CFR 60.38f(k)(1) and (k)(2). Each owner or operator that chooses to comply
- 5 with the operational provisions of 40 CFR 63.1958, 63.1960, and 63.1961, as allowed by 15A NCAC 02D .1705,
- 6 .1706, and .1707 shall follow the corrective action and the corresponding timeline reporting requirements in 40 CFR
- 7 63.1981(j) in lieu of this Paragraph.
- 8 (1) The owner or operator of an affected <u>MSW</u> landfill with a design capacity equal to or greater than 2.5 million
- 9 megagrams and 2.5 million cubic meters that has employed leachate recirculation or added liquids based on a
- 10 Research, Development, and Demonstration permit within the last 10 years shall submit an annual report to the
- 11 Director that includes the information pursuant to 40 CFR 60.38f(l)(1) through (l)(10). The annual report shall be
- 12 submitted by following the procedures pursuant to <u>40 CFR</u> 60.38f(j)(2).
- 13 (m) The owner or operator of an affected <u>MSW</u> landfill with a design capacity equal to or greater than 2.5 million
- 14 megagrams and 2.5 million cubic meters that intends to demonstrate site-specific surface methane emissions are below
- 15 500 parts per million methane, based on Tier 4 provisions of 40 CFR 60.35f(a)(6), shall provide notifications to the
- 16 Director in accordance with 40 CFR 60.38f(m)(1) and (m)(2).
- 17 (n) Each owner or operator that chooses to comply with the operational provisions of 40 CFR 63.1958, 63.1960, and
- 18 63.1961, as allowed by 15A NCAC 02D .1705, .1706, and .1707, shall submit the 24-hour high temperature report
- 19 according to 40 CFR 63.1981(k).
- 20

- 23 *Amended Eff. July 1, 2000;*
- 24 Readopted Eff. October 1, 2020;
- 25 Amended Eff. July 1, 2021.2021;
- 26 <u>Amended Eff. November 1, 2023.</u>
- 27
- 28

 ²¹ History Note: Authority G.S. 143-215.3(a)(1); 143-215.65; 143-215.66; 143-215.107(a)(5); 143-215.107(a)(10);
 22 Eff. July 1, 1998;

15A NCAC 02Q .0102 is amended with changes as published in 37:17 NCR 1130 as follows:

2 3 **ACTIVITIES EXEMPTED FROM PERMIT REQUIREMENTS** 15A NCAC 02O .0102 4 (a) For the purposes of this Rule, the definitions listed in 15A NCAC 02D .0101 and 15A NCAC 02Q .0103 shall 5 apply. 6 (b) This Rule shall not apply to: 7 facilities whose potential emissions require a permit pursuant to 15A NCAC 02Q .0500 (Title V (1)8 Procedures); or 9 (2)a source emitting a pollutant that is part of the facility's 15A NCAC 02D .1100 (Control of Toxic 10 Air Pollutants) modeling demonstration if that source is not exempted pursuant to 15A NCAC 02Q 11 .0702. 12 (c) The owner or operator of an activity exempt from permitting pursuant to this Rule shall not be exempt from 13 demonstrating compliance with any other applicable State or federal requirement. 14 (d) Any facility whose actual emissions of particulate matter (PM10), sulfur dioxide, nitrogen oxides, volatile organic 15 compounds, carbon monoxide, hazardous air pollutants, and toxic air pollutants are each less than five tons per year 16 and whose actual total aggregate emissions are less than 10 tons per year shall not be required to obtain a permit 17 pursuant to 15A NCAC 02Q .0300. This Paragraph shall not apply to synthetic minor facilities that are regulated 18 pursuant to 15A NCAC 02Q .0315. 19 (e) Any facility that is not exempted from permitting pursuant to Paragraph (d) of this Rule and whose actual total 20 aggregate emissions of particulate matter (PM10), sulfur dioxide, nitrogen oxides, volatile organic compounds, carbon 21 monoxide, hazardous air pollutants, and toxic air pollutants are greater than or equal to five tons per year and less than 22 25 tons per year may register their facility pursuant to 15A NCAC 02D .0202 instead of obtaining a permit pursuant 23 to 15A NCAC 02Q .0300. This Paragraph shall not apply to: 24 synthetic minor facilities that are regulated pursuant to 15A NCAC 02Q .0315; (1)25 (2)facilities with a source subject to maximum achievable control technology pursuant to 40 CFR Part 26 63; 27 (3)facilities with sources of volatile organic compounds or nitrogen oxides that are located in a 28 nonattainment area; or 29 (4) facilities with a source regulated pursuant to New Source Performance Standards (NSPS), unless 30 the source is exempted pursuant to Paragraph (g) or (h) of this Rule. 31 (f) The Director may require the owner or operator of a facility to register such facility pursuant to 15A NCAC 02D 32 .0200 or obtain a permit pursuant to 15A NCAC 02Q .0300, if necessary to obtain compliance with any other 33 applicable State or federal requirement. 34 (g) The following activities shall not require a permit or permit modification pursuant to 15A NCAC 02Q .0300: 35 (1)maintenance, upkeep, and replacement:

1		(A) maintenance, structural changes, or repair activities that do not increase the capacity of		
2		such process and do not cause any change in the quality or nature or an increase in quantity		
3		of an emission of any regulated air pollutant;		
4		(B) housekeeping activities or building maintenance procedures, including painting buildings,		
5		paving parking lots, resurfacing floors, repairing roofs, washing, using portable vacuum		
6		cleaners, sweeping, using and associated storing of janitorial products, or removing		
7		insulation;		
8		(C) using office supplies, supplies to maintain copying equipment, or blueprint machines;		
9		(D) using firefighting equipment (excluding engines regulated pursuant to 40 CFR 63, Subpart		
10		ZZZZ); or		
11		(E) replacing existing equipment with equipment of the same size (or smaller), type, and		
12		function that does not result in an increase to the actual or potential emission of regulated		
13		air pollutants, does not affect the facility's compliance with any other applicable State or		
14		federal requirements, and that fits the description of the existing equipment in the permit,		
15		including the application, such that the replacement equipment can be lawfully operated		
16		pursuant to that permit without modifying the permit;		
17	(2)	air conditioning or ventilation: comfort air conditioning or comfort ventilating systems that do not		
18		transport, remove, or exhaust regulated air pollutants to the atmosphere;		
19	(3)	laboratory or classroom activities:		
20		(A) bench-scale, on-site equipment used for experimentation, chemical or physical analysis for		
21		quality control purposes or for diagnosis of illness, training, or instructional purposes;		
22		(B) research and development activities that produce no commercial product or feedstock		
23		material; or		
24		(C) educational activities, including wood working, welding, and automotive repair;		
25	(4)	storage tanks with no applicable requirements other than Stage I controls pursuant to 15A NCAC		
26		02D .0928, Gasoline Service Stations Stage I;		
27	(5)	combustion and heat transfer equipment:		
28		(A) heating units used for human comfort, excluding space heaters burning used oil, that have		
29		a heat input of less than 10 million Btu per hour and that do not provide heat for any		
30		manufacturing or other industrial process;		
31		(B) residential wood stoves, heaters, or fireplaces; or		
32		(C) water heaters that are used for domestic purposes only and are not used to heat process		
33		water;		
34	(6)	wastewater treatment processes: industrial wastewater treatment processes or municipal wastewater		
35		treatment processes for which there are no stateState or federal air requirements;		
36	(7)	dispensing equipment: equipment used solely to dispense gasoline, diesel fuel, kerosene, lubricants,		
37		or cooling oils;		

1	(8)	electric	motor burn-out ovens with secondary combustion chambers or afterburners;		
2	(9)	electric	electric motor bake-on ovens;		
3	(10)	burn-of	burn-off ovens with afterburners for paint-line hangers;		
4	(11)	hosiery	knitting machines and associated lint screens, hosiery dryers and associated lint screens, and		
5		hosiery	dyeing processes that do not use bleach or solvent dyes;		
6	(12)	woodw	orking operations processing only green wood;		
7	(13)	<u>solid w</u>	aste landfills: This exemption does not apply to flares and other sources of combustion at		
8		solid w	aste landfills. These flares and other combustion sources shall obtain a permit pursuant to		
9		15A NO	CAC 02Q .0300 unless they qualify for another exemption pursuant to this Paragraph; or		
10	(14)	miscell	aneous:		
11		(A)	equipment that does not emit any regulated air pollutants;		
12		(B)	sources for which there are no applicable requirements;		
13		(C)	motor vehicles, aircraft, marine vessels, locomotives, tractors, or other self-propelled		
14			vehicles with internal combustion engines;		
15		(D)	engines regulated pursuant to Title II of the Federal Clean Air Act (Emission Standards for		
16			Moving Sources);		
17		(E)	equipment used for preparing food for direct on-site human consumption;		
18		(F)	a source whose emissions are regulated only pursuant to Section 112(r) or Title VI of the		
19			Federal Clean Air Act;		
20		(G)	exit gases from in-line process analyzers;		
21		(H)	stacks and vents that prevent the escape of sewer gases from domestic waste through		
22			plumbing traps;		
23		(I)	refrigeration equipment that complies with the regulations set forth in Sections 601 through		
24			618 of Title VI (Stratospheric Ozone Protection) of the Federal Clean Air Act, 40 CFR Part		
25			82, and any other regulations promulgated by EPA pursuant to Title VI for stratospheric		
26			ozone protection, except refrigeration equipment used as or in conjunction with air		
27			pollution control equipment. Refrigeration equipment used as or in conjunction with air		
28			pollution control equipment shall obtain a permit pursuant to 15A NCAC 02Q .0300 unless		
29			it qualifies for another exemption pursuant to this Paragraph;		
30		(J)	equipment not vented to the outdoor atmosphere, with the exception of equipment that		
31			emits volatile organic compounds. Equipment that emits volatile organic compounds shall		
32			obtain a permit pursuant to 15A NCAC 02Q .0300 unless it qualifies for another exemption		
33			pursuant to this Paragraph;		
34		(K)	animal operations not required to have control technology pursuant to 15A NCAC 02D		
35			.1800. If an animal operation is required to have control technology, it shall obtain a permit		
36			pursuant to this Subchapter;		
37		(L)	any incinerator that meets the requirements set forth in 15A NCAC 02D .1201(c)(4); or		

1		(M)	dry cle	eaning operations, regardless of NSPS or NESHAP applicability.	
2	(h) The follow	ing activ	vities sha	ll not require a permit or permit modification pursuant to 15A NCAC 02Q .0300.	
3	These activities shall be included in determining applicability of any rule or standard that requires facility-wide				
4	aggregation of s	source e	missions,	including activities regulated by 15A NCAC 02D .0530, 15A NCAC 02D .0531,	
5	15A NCAC 020	Q .0500,	and 15A	NCAC 02Q .0700:	
6	(1)	combustion and heat transfer equipment (including direct-fired equipment that only emit regulated			
7		pollut	ants from	fuel combustion):	
8		(A)	fuel co	ombustion equipment (excluding internal combustion engines) not regulated pursuant	
9			to 40	CFR Part 60, NSPS, firing exclusively unadulterated liquid fossil fuel, wood, or an	
10			approv	ved equivalent unadulterated fuel as defined in 15A NCAC 02Q .0103;	
11		(B)	fuel c	ombustion equipment (excluding internal combustion engines) firing exclusively	
12			natura	l gas or liquefied petroleum gas or a mixture of these fuels; or	
13		(C)	space	heaters burning waste oil if:	
14			(i)	the heater burns only oil that the owner or operator generates or used oil from do-	
15				it-yourself oil changers who generate used oil as household wastes; and	
16			(ii)	the heater is designed to have a maximum heat input of not more than 500,000	
17				Btu per hour;	
18	(2)	gasoli	ne distrib	bution: bulk gasoline plants, as defined in 15A NCAC 02D .0926(a)(3), with an	
19		averag	ge daily th	roughput of less than 4,000 gallons;	
20	(3)	paint s	spray boo	oths or graphic arts operations, coating operations, and solvent cleaning operations,	
21		as def	ined in 1	5A NCAC 02Q .0803, located at a facility whose facility-wide actual uncontrolled	
22		emissi	ons of vo	platile organic compounds are less than five tons per year, except that such emission	
23		source	es whose	actual uncontrolled emissions of volatile organic compounds are less than 100	
24		pound	s per yea	r shall qualify for this exemption regardless of the facility-wide emissions. For the	
25		purpo	se of this	exemption, water wash and filters that are an integral part of the paint spray booth	
26		shall r	not be cor	nsidered air pollution control devices;	
27	(4)	electro	ostatic dry	y powder coating operations with filters or powder recovery systems;	
28	(5)	misce	llaneous:	any source whose potential uncontrolled emissions of particulate matter (PM10),	
29		sulfur	dioxide,	nitrogen oxides, volatile organic compounds, and carbon monoxide shall each be no	
30		more	than five	tons per year; or	
31	(6)	case-b	y-case ex	cemption: activities that the applicant demonstrates to the Director do not violate any	
32		applic	able emis	ssion control standard.	
33	(i) The Upon re	equest of	the Dire	ctor, the owner or operator of a facility or source claiming that an activity is exempt	
34	pursuant to <u>und</u>e	er Paragi	raphs (d),	(e), (g) or (h) of this Rule shall submit emissions data, documentation of equipment	
35	type, or other su	pporting	g docume	nts <mark>-to the Director upon request that <u>demonstrating</u> the facility or source is qualified</mark>	
36	for that exempti	on.			
37					

1	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.3(a)(1), (4), (5); 143-215.106; 143-215.107(a)(4); <u>143-</u>
2		<u>215.107D;</u> 143-215.108;
3		Temporary Adoption Eff. March 8, 1994 for a period of 180 days or until the permanent rule
4		becomes effective, whichever is sooner;
5		Eff. July 1, 1994;
6		Amended Eff. April 1, 1999; July 1, 1998; July 1, 1997; November 1, 1996;
7		Temporary Amendment Eff. December 1, 1999;
8		Amended Eff. June 13, 2016; May 1, 2013; January 1, 2009; July 1, 2007; June 29, 2006; July 18,
9		2002; July 1, 2000;
10		Readopted Eff. April 1, 2018. 2018;
11		Amended Eff. November 1, 2023.
12		
13		

2					
3	15A NCAC 020	Q.0706 MODIFICATIONS			
4	(a) The owner of	or operator shall comply with Paragraphs (b) and (c) of this Rule for a modification that is subject to a			
5	Rule Section in	15A NCAC 02D other than a Rule in 15A NCAC 02D .1100 and that:			
6	(1)	requires a permit pursuant to 15A NCAC 02Q .0300;.0300 or .0500; or			
7	(2)	occurs at a facility with a permit pursuant to 15A NCAC 02Q .0500 and emits a pollutant that is part			
8		of the facility's previous modeling demonstration conducted pursuant to 15A NCAC 02D .1104 and			
9		15A NCAC 02Q .0709, if that modification is not exempted pursuant to 15A NCAC 02Q .0702.			
10	This Rule shall	not apply to facilities whose emissions of toxic air pollutants result only from insignificant activities,			
11	as defined in 15	A NCAC 02Q .0103(20), or result only from sources exempted pursuant to 15A NCAC 02Q .0102.			
12	(b) The owner	or operator of the facility shall submit a permit application-to that complies with 15A NCAC 02D			
13	.1100 if the mod	dification results in:			
14	(1)	a net increase in emissions or ambient concentration as previously determined pursuant to 15A			
15		NCAC 02D .1106 and 15A NCAC 02Q .0709 of any toxic air pollutant that the facility was emitting			
16		before the modification; or			
17	(2)	emissions of any toxic air pollutant that the facility was not emitting before the modification if such			
18		emissions exceed the levels set forth in 15A NCAC 02Q .0711.			
19	(c) The permit application filed pursuant to this Rule shall include an evaluation for all toxic air pollutants identified				
20	pursuant to Para	agraph (b) of this Rule.			
21	(d) All sources	at the facility, excluding sources exempt from evaluation pursuant to 15A NCAC 02Q .0702, emitting			
22	these toxic air p	ollutants shall be included in the evaluation. evaluation of toxic air pollutants required by Paragraph			
23	(c) of this Rule.	Sources meeting the exemption set forth in 15A NCAC 02Q .0702(a)(27) shall be reviewed by the			
24	Division pursuant to G.S. 143-215.107(a)(5)b.				
25	(d)(e) If a source is included in an air toxic evaluation pursuant to Paragraph (c) of this Rule but is not the source that				
26	is being added or modified at the facility, and if the emissions from this source must be reduced in order for the facility				
27	to comply with the rules in this Section and 15A NCAC 02D .1100, the emissions from this source shall be reduced				
28	by the time the new or modified source begins operating such that the facility shall be in compliance with the rules of				
29	this Section and 15A NCAC 02D .1100.				
30					
31	History Note:	Authority G.S. 143-215.3(a)(1); 143-215.107; 143-215.108; 143B-282;			
32		Rule originally codified as part of 15A NCAC 2H .0610;			
33		Eff. July 1, 1998;			
34		Amended Eff. May 1, 2014; July 10, 2010; December 1, 2005; April 1, 2005;			
35		<i>Readopted Eff. July 1, 2018.2018:</i>			
36		Amended Eff. November 1, 2023.			
37					

15A NCAC 02Q .0706 is amended with changes as published in 37:17 NCR 1130 as follows: