

County of Forsyth



OFFICE OF ENVIRONMENTAL ASSISTANCE AND PROTECTION

FORSYTH COUNTY GOVERNMENT CENTER
201 NORTH CHESTNUT STREET
WINSTON-SALEM, NC 27101-4120

PERMIT TO OPERATE
AIR QUALITY CONTROL
CLASS: Title V

PERMIT NUMBER	EFFECTIVE DATE	EXPIRATION DATE	RENEWAL DUE
00745-TV-41	October 1, 2021	November 27, 2023	February 27, 2023

Facility Name: R.J. Reynolds Tobacco Company - Tobaccoville
Mailing Address: P.O. Box 2959
City, State, ZIP Code: Winston-Salem, NC 27102

Facility Location: RJR Moore Road
City: Tobaccoville, NC

In accordance with the provisions set forth in the Forsyth County Air Quality Technical Code and Chapter 3 of the Forsyth County Code, "Air Quality Control", the facility identified above is authorized to operate, as outlined in Part I, "Air Quality Title V Operation Permit", the emission source(s) and associated air pollution control device(s) specified herein, in accordance with the terms, conditions, and limitations contained within this permit.

The permittee shall not construct, operate, or modify any emission source(s) or air pollution control device(s) without having first submitted a complete air quality permit application to the Forsyth County Office of Environmental Assistance and Protection and received an Air Quality Permit, except as provided in this permit or in accordance with applicable provisions of the Forsyth County Air Quality Technical Code.

This permit supersedes all previous permits issued to the permittee by the Forsyth County Environmental Affairs Department or Forsyth County Office of Environmental Assistance and Protection.

Peter B. Lloyd, Ph.D., P.E., Program Manager
Compliance Assistance & Permitting Division

9/28/2021
DATE:

R. J. Reynolds Tobacco Company
Air Quality Permit # 00745-TV-41
October 1, 2021

Table of Contents

PART I

AIR QUALITY OPERATING PERMIT

SECTION 1

FACILITY-WIDE PERMITTED EQUIPMENT AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S)		
1.1	Equipment List and Applicable Standards	1
1.2	Operating Conditions Not Covered Under the Permit Shield	8

SECTION 2

FACILITY GENERAL ADMINISTRATIVE CONDITIONS		
2.1	General Provisions	9
2.2	Permit Availability	10
2.3	Submissions	10
2.4	Severability Clause	10
2.5	Duty to Comply	10
2.6	Need to Halt or Reduce Activity Not a Defense	10
2.7	Permit Shield	10
2.8	Circumvention	11
2.9	Good Air Pollution Control Practice	11
2.10	Reporting Requirements for Excess Emissions and Permit Deviations	11
2.11	Emergency Provisions	13
2.12	Permit Fees	13
2.13	Annual Emission Inventory Requirements	14
2.14	Compliance Certification	14
2.15	Retention of Records	14
2.16	NESHAP - Recordkeeping Requirement for Applicability Determinations	15
2.17	Duty to Provide Information	15
2.18	Duty to Supplement or Correct Application	15
2.19	Certification by Responsible Official	15
2.20	Inspection and Entry	15
2.21	Averaging Times	16
2.22	Compliance Testing	16
2.23	General Emissions Testing and Reporting Requirements	16
2.24	Termination, Modification, and Revocation of the Permit	17
2.25	Permit Reopenings, Modifications, Revocations and Reissuances, or Terminations	18
2.26	Permit Renewal	18
2.27	Reopening for Cause	18
2.28	Construction and Operation Permits	19
2.29	Permit Modifications	19
2.30	Insignificant Activities	19
2.31	Standard Application Form and Required Information	19
2.32	Property Rights	19
2.33	Refrigerant Requirements (Stratospheric Ozone and Climate Protection)	20

2.34	Prevention of Accidental Releases - Section 112(r)	20
2.35	Title IV Allowances	20
2.36	Air Pollution Alert, Warning or Emergency	20
2.37	Registration of Air Pollution Sources	20
2.38	Ambient Air Quality Standards	20
2.39	Odor	21
2.40	Fugitive Dust Control Requirement	21
2.41	NSPS - General Provisions	21
2.42	NSPS - Good Air Pollution Control Practice	21
2.43	NSPS - Circumvention	21
2.44	NSPS - Maintain Records - startup/shutdown/malfunction	22
2.45	NSPS - Files Available For Inspection	22
2.46	NSPS - Performance Testing Facilities Provided By Permittee	22
2.47	CAM - Proper Maintenance	22
2.48	CAM - Continued Operation	23
2.49	CAM - Response to Excursions or Exceedances	23
2.50	CAM - Documentation of Need for Improving Monitoring	23
2.51	NESHAP - General Provisions	24
2.52	NESHAP - Circumvention	24
2.53	NESHAP - Maintain Records	24
2.54	NESHAP - Files Available for Inspection	25
2.55	NESHAP - Performance Testing Facilities Provided by Permittee	25

SECTION 3:**SPECIFIC LIMITATIONS AND CONDITIONS**

3.1	Facility-Wide Emission Source Conditions	26
3.2	Source Specific Emission Limits: Limits to Avoid PSD Review	28
3.3	Particulate Emission Limits	31
3.4	Sulfur Dioxide Emission Limits	33
3.5	Control of Visible Emissions	35
3.6	Monitoring, Recordkeeping, and Reporting	36
3.7	Work Practices for Sources of Volatile Organic Compounds	42
3.8	NESHAP - 40 CFR Part 63, Subpart ZZZZ	44
3.9	Limit to Avoid Applicability of 40 CFR Part 63, Subpart JJJJJJ	49
3.10	NESHAP - 40 CFR Part 63, Subpart JJJJJJ	50
3.11	Source Specific Emission Limits: PSD BACT	53

SECTION 4:**CONTROL OF TOXIC AIR POLLUTANTS - LOCALLY ENFORCEABLE ONLY**

4.1	Facility-Wide Toxic Air Pollutant Conditions	62
------------	--	-----------

PART II AIR QUALITY CONSTRUCTION PERMIT

SECTION 1:

PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S)	65
--	-----------

SECTION 2:

GENERAL CONDITIONS	67
---------------------------	-----------

SECTION 3:

SPECIFIC LIMITATIONS AND CONDITIONS - ES-TEMP Temporary Boiler Project	69
---	-----------

SECTION 4:

SPECIFIC LIMITATIONS AND CONDITIONS - Make and Pack Modernization Project	71
--	-----------

SECTION 5:

SPECIFIC LIMITATIONS AND CONDITIONS - New G7 Cutting Project	73
---	-----------

SECTION 6:

SPECIFIC LIMITATIONS AND CONDITIONS - Small Batch Project	74
--	-----------

Building 851-1 Cigarette Manufacturing

ES#	Emission Source	Applicable Standards						CAM				non-CAM		Visible Emissions		
		PM	PM	PM	SO2	SO2	VOC	Fabric Filter	Fume Incin.	Thermal Incin.	Visual Observ.	Fabric Filter	Wet Scrubber	3.5(A)	3.5(B)	
		3.3(A)	3.3(B) (1)	max. lb/hr	3.3(C) BACT	3.4(A)	3.4(B) NSPS Dc	3.7	3.6(B) (1),(5),(6)	3.6(B) (2),(5),(6)	3.6(B) (3),(5),(6)	3.6(B) (4),(5),(6)	3.6(A) (1),(3),(4)	3.6(A) (2),(3),(4)	3.5(A)	3.5(B) NSPS Dc
Applicable Permit Condition																
ES#	Emission Source							CD#	Controls				EP#	Emission Point		
ES-9	Processed Tobacco Conveying		x	27.9				66					x	51/25:51A	x	
								67					x	24/24E	x	
								71, 72, 73, 74					x	24/24A 24B/24C 24D	x	
ES-10	Expanded Tobacco Conveying		x	28.4	x			63					x	25/25:51A	x	
								71,72, 73,74					x	24/24A 24B/24C 24D	x	
ES-11	Tobacco Strip Conveying/Blending		x	46.3	x			68, 70					x	21/21A	x	
								87, 88, 90					x	5/5A	x	
								89	x			x		1/1:2A	x	
								95					x	2/1:2A	x	
								91					x	4/4:47A	x	
ES-12	Tobacco Strip Conveying/Storage							105					x	47/4:47A	x	
								68					x	21/21A	x	
								69	x			x		22/22A	x	
								70	x			x		21/21A	x	
								71, 72, 73, 74					x	24/24A 24B/24C 24D	x	
ES-13	Tobacco Strip Conveying to Casing/Drying		x	30.5	x			107					x	37	x	
								112					x	36	x	

Building 851-1 Cigarette Manufacturing

ES#	Emission Source	Applicable Standards						CAM				non-CAM		Visible Emissions		
		PM	PM	PM	SO2	SO2	VOC	Fabric Filter	Fume Incin.	Thermal Incin.	Visual Observ.	Fabric Filter	Wet Scrubber	3.5(A)	3.5(B) NSPS Dc	
		3.3(A)	3.3(B) (1)	max. lb/hr	3.3(C) BACT	3.4(A)	3.4(B) NSPS Dc	3.7	3.6(B) (1),(5),(6)	3.6(B) (2),(5),(6)	3.6(B) (3),(5),(6)	3.6(B) (4),(5),(6)	3.6(A) (1),(3),(4)	3.6(A) (2),(3),(4)		
Applicable Permit Condition																
CD#	Controls						EP#	Emission Point								
ES-14	Tobacco Strip Casing/Drying							70					x		21/21A	x
								107					x		37	x
								112					x		36	x
				x	26.3		x		108	x					34	x
									109	x					35	x
									128						43	x
									129						40	x
									N/A						39, 42	x
									N/A						38, 41	x
ES-15	Tobacco Casing/Cutting/Storage							13, 19					x		32/32A	x
								14, 20					x		31/31A	x
								15, 16					x		30/30A	x
								17, 18					x		29/29A	x
								50, 51, 52, 53, 55, 57, 59, 61					x		23	x
								54, 56, 58, 60	x						23	x
				x	45.2		x		71, 72, 73, 74					x	24/24A 24B/24C 24D	x
									119, 120, 121, 122						20	x
									123, 124, 125, 126						23	x
									RTO			x	x		60	x
							N/A						61	x		
							N/A						26	x		
							Fugitive									
ES-16	Cut Tobacco Silo Discharge							13, 19					x		32/32A	x
								14, 20					x		31/31A	x
								15, 16					x		30/30A	x
				x	43.6		x		18					x		29/29A

Building 851-1 Cigarette Manufacturing

ES#	Emission Source	Applicable Standards						CAM				non-CAM		Visible Emissions		
		PM	PM	PM	SO2	SO2	VOC	Fabric Filter	Fume Incin.	Thermal Incin.	Visual Observ.	Fabric Filter	Wet Scrubber	3.5(A)	3.5(B)	
		3.3(A)	3.3(B) (1)	max. lb/hr	3.3(C) BACT	3.4(A)	3.4(B) NSPS Dc	3.7	3.6(B) (1),(5),(6)	3.6(B) (2),(5),(6)	3.6(B) (3),(5),(6)	3.6(B) (4),(5),(6)	3.6(A) (1),(3),(4)	3.6(A) (2),(3),(4)	3.5(A)	3.5(B) NSPS Dc
Applicable Permit Condition																
CD#	Controls						EP#	Emission Point								
ES-18	Filter Making		x	18.7	x			x						29/29B	x	
								x						32/32B	x	
								x						30/30B	x	
								x						31/31B	x	
ES-19	Cigarette Making		x	43.3	x			1, 2				x		29	x	
								3, 4				x		32	x	
								5, 6, 7, 10				x		31		
								8, 9, 11, 12				x		30	x	
								21, 22	x			x		29	x	
								23, 24	x			x		32	x	
								25, 26, 27	x			x		31	x	
								28, 29, 30, 31	x			x		30	x	
ES-20	Housekeeping (Industrial Vac)		x	19.2	x			30,131				x		31		
								Fugitive								
								33				x		30	x	
								35				x		31	x	
								38, 42				x		29	x	
								40, 44, 45				x		32	x	
								46				x		33	x	
								48	Note: This control vents through CD-71.				x		24/24A 24B/24C 24D	x
								64				x		25	x	
								93				x		6	x	
						106				x		4	x			
						111				x		37	x			

Building 851-1 Cigarette Manufacturing

Applicable Permit Condition		Applicable Standards						CAM				non-CAM		Visible Emissions			
		PM	PM		PM	SO2	SO2	VOC	Fabric Filter	Fume Incin.	Thermal Incin.	Visual Observ.	Fabric Filter	Wet Scrubber	3.5(A)	3.5(B)	
		3.3(A)	3.3(B)	max. lb/hr	3.3(C)	3.4(A)	3.4(B)	3.7	3.6(B)	3.6(B)	3.6(B)	3.6(B)	3.6(A)	3.6(A)	3.5(A)	3.5(B)	
Applicable Permit Condition		3.3(A)	3.3(B)	max. lb/hr	3.3(C)	3.4(A)	3.4(B)	3.7	3.6(B)	3.6(B)	3.6(B)	3.6(B)	3.6(A)	3.6(A)	3.5(A)	3.5(B)	
ES#	Emission Source								CD#	Controls				EP#	Emission Point		
ES-21	Tobacco Expansion Process		x	10.2					63					x	25/25:51A	x	
									66					x	51/25:51A	x	
									67					x	24/24E	x	
									68					x	21/21A	x	
									71, 72, 73, 74						24/24A 24B/24C 24D		
									92					x	16/16A	x	
									127						x	50	x
							x		130		x		x			52	x
ES-24	Box Filling		x	19.2					19					x	32/32A	x	
ES-25	Small Batch - Receiving and Blending		x	4.10					132						x	62	x
ES-26	Small Batch - Casing and Drying		x	2.58					132						x	62	x
									133	x				x	63	x	
									N/A						64	x	
									N/A						65	x	
ES-27	Small Batch - Casing and Cutting		x	5.97					75	x				x	24/24A 24B/24C 24D	x	
									76					x	24/24A 24B/24C 24D	x	
									122						x	20	x
									126						x	23	x
									RTO			x	x			60	x
									N/A							61	x
									Fugitive								
F-13	Casing Preparation Area								x	All Fugitive							
F-16	Packing Equipment								x	All Fugitive							

Building 854-8 Utilities

ES#	Emission Source	Applicable Standards						CAM				non-CAM		Visible Emissions	
		PM	PM	PM	SO2	SO2	VOC	Fabric Filter	Fume Incin.	Thermal Incin.	Visual Observ.	Fabric Filter	Wet Scrubber	3.5(A)	3.5(B)
		3.3(A)	3.3(B) (1)	max. lb/hr	3.3(C) BACT	3.4(A)	3.4(B) NSPS Dc	3.7	3.6(B) (1),(5),(6)	3.6(B) (2),(5),(6)	3.6(B) (3),(5),(6)	3.6(B) (4),(5),(6)	3.6(A) (1),(3),(4)	3.6(A) (2),(3),(4)	3.5(A)
Applicable Permit Condition															
CD#	Controls						EP#		Emission Point						
ES-1	Boiler #5: (87.9 mmBtu/hr, NG)														
	Combusting No. 2 fuel oil	x					x							22	x
	Combusting natural gas	x				x								x	
ES-2	Boiler #6: (87.9 mmBtu/hr, NG)														
	Combusting No. 2 fuel oil	x					x							23	x
	Combusting natural gas	x				x								x	
ES-3	Boiler #7: (87.9 mmBtu/hr, NG)														
	Combusting No. 2 fuel oil	x					x							24	x
	Combusting natural gas	x				x								x	
ES-4	Emergency Generator 19.92 MMBtu/hr					x								25	x

Temporary Boilers

In the event that the Tobaccoville facility's steam supply (received from the Building 854-8 boilers) is interrupted, one or two temporary boilers will be installed and operated at the Tobaccoville facility.

ES#	Emission Source	Applicable Standards						CAM				non-CAM		Visible Emissions	
		PM	PM	PM	SO2	SO2	VOC	Fabric Filter	Fume Incin.	Thermal Incin.	Visual Observ.	Fabric Filter	Wet Scrubber	3.5(A)	3.5(B)
		3.3(A)	3.3(B) (1)	max. lb/hr	3.3(C) BACT	3.4(A)	3.4(B) NSPS Dc	3.7	3.6(B) (1),(5),(6)	3.6(B) (2),(5),(6)	3.6(B) (3),(5),(6)	3.6(B) (4),(5),(6)	3.6(A) (1),(3),(4)	3.6(A) (2),(3),(4)	3.5(A)
Applicable Permit Condition															
CD#	Controls						EP#		Emission Point						
ES-TEMP	One or two temporary boilers with low-NOx burners fired with diesel fuel with a sulfur content not to exceed 0.05% sulfur or with natural gas and with a combined maximum firing rate not to exceed 98 mmBtu/hr.	x				x								EP-T1 (plus EP-T2, if applicable)	x

Note:

The "x" denotes the applicable conditions in Section 3.

Some emissions have the capability of being recirculated back to the plant through air handling units or exhaust to atmosphere. The Emission Point ID numbers that end with A, B, C, D, or E identify these exhausts as the stacks which have this capability. These emission points are air dehumidifier relief vents through which emissions may be vented to the atmosphere instead of back into the plant.

Mikropul Fabric Filter (ADC 15042) listed in permit application as CD-62-851-1 is not a true control device. It serves as a material separator and its exhaust is routed through CD-48-851-1. Therefore, it is not listed on this permit as a control device.

An emission source may be operated without the concurrent operation of its associated control device only if the emissions are not considered regulated pollutants during this time (ie. particulate matter emissions being exhausted inside the facility instead of to atmosphere while the control device is not operational).

SECTION 2 FACILITY GENERAL ADMINISTRATIVE CONDITIONS

2.1 General Provisions [Sections 3-0100, 3-0200 and Sec. 3Q-0508(i)(16)]

- A. Terms not otherwise defined in this permit shall have the meaning assigned to such terms as defined in Subchapters 3D and 3Q of the Forsyth County Air Quality Technical Code (FCAQTC).
- B. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Sections 3-0100 and 3-0200 of the Forsyth County Air Quality Ordinance (FCAQO), including assessment of civil and/or criminal penalties. This permit is valid only for the specific processes and operations applied for and indicated in the air quality permit application. Any unauthorized deviation from the conditions of this permit may constitute grounds for revocation and enforcement action by this Office.
- C. This permit is not a waiver of or approval of any other permits that may be required for other aspects of the facility which are not addressed in this permit.
- D. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted facility, or from penalties therefore. This permit does not allow the permittee to cause pollution in contravention of local laws or rules, unless specifically authorized by an order from the Director, or to cause pollution in contravention of state laws or rules.
- E. Terms and conditions contained herein shall be enforceable by this Office, the U.S. EPA and citizens of the United States as defined in the federal Clean Air Act, except those identified as **Locally Enforceable Only** requirements which are enforceable by this Office.
- F. Any stationary installation which will reasonably be expected to be a source of pollution shall not be operated, maintained or modified without the appropriate and valid permits issued by this Office, unless the source is exempted by rule. This Office may issue a permit only after it receives reasonable assurance that the installation will not cause pollution in violation of any of the applicable requirements.
- G. In addition to the authority found in Sec. 3D-0501 and 3Q-0508(i)(16), any deviation from the monitoring provisions of this permit may result in a request by this Office to submit data on rates of emissions in order to demonstrate compliance with any applicable regulation.

2.2 Permit Availability [Sec. 3Q-0507(k), 0508(i)(16), 0508(i)(9) and 0110]

The permittee shall have available at the facility a copy of this permit and shall retain for the duration of the permit term one complete copy of the application and any information submitted in support of the application package. The permit and application shall be made available to an authorized representative of this Office or the U.S. EPA upon request.

2.3 Submissions [Sec. 3Q-0507(c), 0508(i)(16) and 0104]

All documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required to be sent to this Office by this permit shall be submitted to the Forsyth County Office of Environmental Assistance and Protection, Forsyth County Government Center, 201 N. Chestnut Street, Winston-Salem, NC 27101-4120.

2.4 Severability Clause [Sec. 3Q-0508(i)(2)]

The provisions of this permit are severable. If any provision of this permit, or the application of any provision of this permit to any specific circumstance, is challenged, the application of the provision in question to other circumstances, as well as the remainder of this permit's provisions, shall not be affected.

2.5 Duty to Comply [Sec. 3Q-0508(i)(3)]

The permittee shall comply with all terms, conditions, requirements, limitations and restrictions set forth in this permit. Noncompliance with any permit condition is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

2.6 Need to Halt or Reduce Activity Not a Defense [Sec. 3Q-0508(i)(4)]

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

2.7 Permit Shield [Sec. 3Q-0512(a)]

- A. Compliance with the terms and conditions of this permit shall be deemed compliance with applicable requirements, where such applicable requirements are included and specifically identified in the permit as of the date of permit issuance.
- B. A permit shield shall not alter or affect:
 1. the power of the Forsyth County Board of Commissioners, Director, or Governor under NCGS 143-215.3(a)(12) or the U.S. EPA under Section 303 of the federal Clean Air Act;
 2. the liability of an owner or operator of a facility for any violation of applicable requirements prior to the effective date of the permit or at the time of permit issuance;
 3. the applicable requirements under Title IV of the Clean Air Act; or
 4. the ability of the Director or the U.S. EPA under Section 114 of the federal Clean Air Act to obtain information to determine compliance of the facility with its permit.

- C. A permit shield shall not apply to any change made at a facility that does not require a permit or to any permit revision made under Sec. 3Q-0523.
- D. A permit shield shall not extend to minor permit modifications made under Sec. 3Q-0515.

2.8 Circumvention [Sec. 3D-0502 and 3Q-0508(i)(16)]

No person shall circumvent any permitted air pollution control device, or allow the emissions of regulated air pollutants without the applicable air pollution control device operating properly. Unless otherwise specified by this permit, no permitted emission source may be operated without the concurrent operation of its associated air pollution control device(s) and appurtenances.

2.9 Good Air Pollution Control Practice [Sec. 3D-0502 and 3Q-0508(i)(16)]

At all times, the equipment listed in *Section 1* shall be operated and maintained in a manner consistent with the design and emissions control as applied for in the application.

2.10 Reporting Requirements for Excess Emissions and Permit Deviations [Sec. 3D-0535(f), 3Q-0508(f)(2), 3Q-0508(i)(16) and 3Q-0508(g)]

“Excess Emissions” - means an emission rate that exceeds any applicable emission limitation or standard allowed by any rule in Sections 3D-0500, 0900, 1200 or 1400; or by a permit condition; or that exceeds a Locally Enforceable Only emission limit established in a permit issued under Section 3Q-0700. (Note: This definition applies where the NSPS does not further define excess emissions for an affected NSPS emissions source.)

“Deviation” - means any action or condition not in accordance with the terms and conditions of this permit including those attributable to upset conditions.

- A. Sources subject to Sec. 3D-0524, 1110 or 1111

Excess Emissions and Permit Deviations

1. If the source specific NSPS (Sec. 3D-0524) or NESHAP (Sec. 3D-1110 or 1111) defines "excess emissions", these shall be reported as prescribed in Sec. 3D-0524, 1110 or 1111.
2. If the source specific NSPS (Sec. 3D-0524) or NESHAP (Sec. 3D-1110 or 1111) does NOT define “excess emissions”, the permittee shall report excess emissions as deviations from permit requirements as prescribed in paragraph 3, below.
3. In addition to any specific NSPS or NESHAP reporting requirements the permittee shall upon becoming aware:
 - (a) report to this Office any deviations from permit requirements by the next business day, unless an alternative reporting schedule is specifically provided in the permit, and

- (b) report in writing to this Office all deviations from permit requirements or any excess emissions within two business days, unless an alternative reporting schedule is specifically provided in the permit. The written report shall include the probable cause of such deviations and any corrective actions or preventative actions taken. Reports of all deviations from permit requirements shall be certified by a responsible official.

B. Sources NOT subject to Sec. 3D-0524, 1110 or 1111

1. Excess Emissions Greater than Four Hours in Duration [Sec. 3D-0535(f)]

The permittee shall report excess emissions greater than four hours in duration as prescribed in Sec. 3D-0535(f) including, but not limited to the following:

- (a) Notify this Office of any such occurrence by 9:00 a.m. Eastern time of this Office's next business day of becoming aware of the occurrence as described in Sec. 3D-0535(f)(1);
- (b) Notify this Office immediately when corrective measures have been accomplished; and
- (c) Submit, if requested, to this Office within 15 days after the request, a written report as described in Sec. 3D-0535(f)(3).

2. Excess Emissions Less than Four Hours in Duration and Deviations [Sec. 3Q-0508(f)]

The permittee shall report excess emissions less than four hours in duration and deviations from permit requirements as follows:

- (a) Report to this Office any excess emissions less than four hours in duration and any deviations from permit requirements quarterly, unless an alternative reporting schedule is specifically provided in the permit; and
- (b) Report in writing to this Office any excess emission less than four hours in duration or any deviations from permit requirements quarterly, unless an alternative reporting schedule is specifically provided in the permit. The written report shall include the probable cause of such excess emissions and deviations and any corrective actions or preventative actions taken. All reports of excess emissions and deviations from permit requirements shall be certified by a responsible official.

C. Other Requirements under Sec. 3D-0535 (Sec. 3D-0535(g) is Locally Enforceable Only).

The permittee shall comply with all other requirements contained in Sec. 3D-0535.

2.11 Emergency Provisions <40 CFR 70.6(g)>

The permittee shall be subject to the following provision with regard to emergencies:

- A. An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the facility to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.
- B. An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the conditions specified in condition 2.11(C) are met.
- C. The affirmative defense of emergency shall be demonstrated through properly signed contemporaneous operating logs, or other relevant evidence that include information as follows:
 - 1. an emergency occurred and that the permittee can identify the cause(s) of the emergency;
 - 2. the permitted facility was at the time being properly operated;
 - 3. during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the standards, or other requirements in the permit; and
 - 4. the permittee submitted notice of the emergency to this Office within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, and steps taken to mitigate emissions, and corrective actions taken.
- D. In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof.
- E. This provision is in addition to any emergency or upset provision contained in any applicable requirement specified elsewhere herein.

2.12 Permit Fees [Sec. 3Q-0206(b), 0508(i)(10) and 0519(a)(4)]

If, within 30 days after being billed, the permittee fails to pay an annual permit fee required under Subchapter 3Q-0200 of the FCAQTC, the Director may initiate action to terminate this permit under Sec. 3Q-0519 of the FCAQTC.

2.13 Annual Emission Inventory Requirements [Sec. 3Q-0207]

The permittee shall report to the Director by June 30th of each year the actual emissions of each air pollutant listed in Sec. 3Q-0207(a) from each emission source within the facility during the previous calendar year. The report shall be in or on such form(s) as may be established by the Director. The accuracy of the report shall be certified by a responsible official of the facility.

2.14 Compliance Certification <40 CFR 70.6(c)> [Sec. 3Q-0508(n) and 0508(i)(16)]

By March 1st unless another date is established by the Director, the permittee shall submit to this Office and the U.S. EPA (**U.S. EPA Region 4, Air Enforcement Section, Mail Code: 4APT-AEEB, 61 Forsyth Street, S.W., Atlanta, GA 30303**) a compliance certification by a responsible official with all terms and conditions in the permit, including emissions limitations, standards, or work practices. The compliance certification shall comply with additional requirements as may be specified under Sections 114(a)(3) or 504(b) of the federal Clean Air Act. The compliance certification shall include all of the following (provided that the identification of applicable information may cross-reference the permit or previous reports as applicable):

- A. the identification of each term or condition of the permit that is the basis of the certification;
- B. the status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the methods or means designated in 40 CFR 70.6(c)(5)(iii)(B). The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR 64 occurred;
- C. whether compliance was continuous or intermittent;
- D. the identification of the method(s) or other means used by the owner and operator for determining the compliance status with each term and condition during the certification period; these methods shall include the methods and means required under 40 CFR Part 70.6(a)(3); and
- E. such other facts as the Director may require to determine the compliance status of the source.

2.15 Retention of Records [Sec. 3Q-0508(f)]

The permittee shall retain records of all required monitoring data and supporting information for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring information, and copies of all reports required by the permit.

2.16 NESHAP - Recordkeeping Requirement for Applicability Determinations <40 CFR 63.10(b)(3)> [Sec. 3D-1111]

If the permittee determines that his or her stationary source that emits (or has the potential to emit, without considering controls) one or more hazardous air pollutants is not subject to a relevant standard or other requirement established under 40 CFR Part 63, the permittee shall keep a record of the applicability determination on site at the source for a period of 5 years after the determination, or until the source changes its operations to become an affected source. This record shall include all of the information required under 40 CFR 63.10(b)(3).

2.17 Duty to Provide Information [Sec. 3Q-0508(i)(9)]

- A. The permittee shall furnish to this Office, in a timely manner, any reasonable information that the Director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit.
- B. The permittee shall furnish this Office copies of records required to be kept by the permit when such copies are requested by the Director.

2.18 Duty to Supplement or Correct Application [Sec. 3Q-0507(f)]

The permittee, upon becoming aware that any relevant facts were omitted from the application or that incorrect information was submitted with the application, shall promptly submit such supplementary facts or corrected information to this Office. The permittee shall also provide additional information necessary to address any requirements that become applicable to the source after the date a complete application was submitted but prior to release of the draft permit.

2.19 Certification by Responsible Official [Sec. 3Q-0520]

A responsible official (as defined in 40 CFR 70.2) shall certify the truth, accuracy, and completeness of any application form, report, or compliance certification required by this permit. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statement and information in the document are true, accurate, and complete.

2.20 Inspection and Entry [Sec. 3Q-0508(l)]

- A. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized representatives of this Office to perform the following:
 - 1. enter upon the permittee's premises where the permitted facility is located or emissions-related activity is conducted, or where records are kept under the conditions of the permit;
 - 2. have access to and copy, at reasonable times, any records that must be kept under conditions of the permit;
 - 3. inspect, at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

4. sample or monitor substances or parameters, at reasonable times and using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements.

Nothing in this condition shall limit the ability of the U.S. EPA to inspect or enter the premises of the permittee under Section 114 or other provisions of the Clean Air Act.

- B. No person shall obstruct, hamper or interfere with any such authorized representative while in the process of carrying out his official duties.

2.21 **Averaging Times <40 CFR 70.6(a)(3)> [Sec. 3Q-0508(f)]**

Unless otherwise specified in *Section 3* of this permit for a specific emission standard or limitation, the applicable averaging period for determining compliance with an emission standard or limitation during compliance testing shall be based on the applicable U.S. EPA reference test method.

2.22 **Compliance Testing [Sec. 3D-2602(e)]**

When requested by this Office for determining compliance with emission control standards, the permittee shall provide sampling ports, pipes, lines, or appurtenances for the collection of samples and data required by the test procedure; scaffolding and safe access to the sample and data collection locations; and light, electricity, and other utilities required for sample and data collection.

2.23 **General Emissions Testing and Reporting Requirements [Sec. 3D-2602 and 3Q-0508(i)(16)]**

Testing shall be conducted in accordance with FCAQTC Section 3D-2600 except as may be otherwise required in FCAQTC Sec. 3D-0524, 0912, 1110, 1111, 1415 or a permit condition specific to the emissions source. Requests to use an alternative test method or procedure must be made in writing at least 45 days prior to the test and approved by this Office. Alternatives to test methods or procedures specified for emissions sources subject to test requirements under 40 CFR 60, 40 CFR 61 or 40 CFR 63, may require approval by the U.S. EPA. When required to conduct emissions testing under the terms of the permit:

- A. The permittee shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved prior to air pollution testing. Emission testing protocols must be submitted at least 45 days before conducting the test for pre-approval prior to testing if requested by the permittee.
- B. The permittee shall notify this Office of the specific test dates at least 15 days prior to the scheduled test date in order to afford this Office the opportunity to have an observer on-site during the sampling program.
- C. During all sampling periods, the permittee shall operate the emission source(s) under operating conditions that best fulfill the purpose of the test and are approved by the Director or his delegate.

- D. The permittee shall submit one copy of the test report to this Office not later than 30 days after sample collection. The permittee may request an extension to submit the final test report if the extension request is a result of actions beyond the control of the permittee. The test report shall contain at a minimum the following information:
1. a certification of the test results by sampling team leader and facility representative;
 2. a summary of emissions results expressed in the same units as the emission limits given in the rule for which compliance is being determined and text detailing the objectives of the testing program, the applicable state and federal regulations, and conclusions about the testing and compliance status of the emission source(s) as appropriate;
 3. a detailed description of the tested emission source(s) and sampling location(s) process flow diagrams, engineering drawings, and sampling location schematics as necessary;
 4. all field, analytical and calibration data necessary to verify that the testing was performed as specified in the applicable test methods;
 5. example calculations for at least one test run using equations in the applicable test methods and all test results including intermediate parameter calculations; and
 6. documentation of facility operating conditions during all testing periods and an explanation relating these operating conditions to maximum normal operation. If necessary, provide historical process data to verify maximum normal operation.
- E. This Office will review emission test results with respect to the specified testing objectives as proposed by the permittee and approved by this Office.

2.24 Termination, Modification, and Revocation of the Permit [Sec. 3Q-0519]

The Director may terminate, modify, or revoke and reissue this permit if:

- A. the information contained in the application or presented in support thereof is determined to be incorrect;
- B. the conditions under which the permit or permit renewal was granted have changed;
- C. violations of conditions contained in the permit have occurred;
- D. the permit holder fails to pay fees required under Section 3Q-0200 within 30 days after being billed;
- E. the permittee refuses to allow the Director or his authorized representative upon presentation of credentials:

1. to enter, at reasonable times and using reasonable safety practices, the permittee's premises in which a source of emissions is located or in which any records are required to be kept under terms and conditions of the permit;
 2. to have access, at reasonable times, to any copy or records required to be kept under terms and conditions of the permit;
 3. to inspect, at reasonable times and using reasonable safety practices, any source of emissions, control equipment, and any monitoring equipment or method required in the permit; or
 4. to sample, at reasonable times and using reasonable safety practices, any emission sources at the facility;
- F. the U.S. EPA requests that the permit be revoked under 40 CFR 70.7(g) or 70.8(d); or
- G. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of Chapter 3 of the Forsyth County Code.

2.25 **Permit Reopenings, Modifications, Revocations and Reissuances, or Terminations [Sec. 3Q-0508(i)(5)]**

The Director may reopen, modify, revoke and reissue, or terminate this permit for reasons specified in Sec. 3Q-0517 or 0519. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, notification of planned changes, or anticipated noncompliance does not stay any permit condition in this permit.

2.26 **Permit Renewal [Sec. 3Q-0508(e) and Sec. 3Q-0513]**

This permit is issued for a term not to exceed five years. Permits issued under Title IV of the Clean Air Act shall be issued for a fixed period of five years. This permit shall expire at the end of its term. Permit expiration terminates the facility's right to operate unless a complete renewal application is submitted at least nine months before the date of permit expiration. If the permittee or applicant has complied with Sec. 3Q-0512(b)(1), this permit shall not expire until the renewal permit has been issued or denied. All terms and conditions of this permit shall remain in effect until the renewal permit has been issued or denied.

2.27 **Reopening for Cause [Sec. 3Q-0517 and 0508(g)]**

This permit shall be reopened and revised in accordance with Sec. 3Q-0517 prior to its expiration date, for any of the following reasons:

- A. Additional applicable requirements become applicable to the facility with remaining permit term of three or more years.
- B. Additional requirements, including excess emissions requirements, become applicable to this source under Title IV of the Clean Air Act. Excess emissions offset plans for this source shall become part of this permit upon approval by the U.S. EPA.

- C. The Director or the U.S. EPA finds that a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
- D. The Director or the U.S. EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.

2.28 Construction and Operation Permits [Sections 3Q-0100 and 0300]

A construction and operating permit shall be obtained by the permittee for any proposed new or modified facility or emission source which is not exempted from having a permit prior to the beginning of construction or modification, in accordance with all applicable provisions of Sections 3Q-0100 and 0300.

2.29 Permit Modifications [Sec. 3Q-0514, 0515, 0516, 0517, 0523 and 0524]

- A. Permit modifications may be subject to the requirements of Sec. 3Q-0514, 0515, 0516 and 0524.
- B. Changes made pursuant to Sec. 3Q-0523(a) and (b) do not require a permit modification.
- C. The permittee shall submit an application for reopening for cause in accordance with Sec. 3Q-0517 if notified by this Office.
- D. To the extent that emissions trading is allowed under FCAQTC Subchapter 3D, including subsequently adopted maximum achievable control technology standards, emissions trading shall be allowed without permit revision pursuant to Sec. 3Q-0523(c).

2.30 Insignificant Activities [Sec. 3Q-0503 and 0508(i)(15)]

Because an emission source or activity is insignificant does not mean that the emission source or activity is exempted from any applicable requirement or that the owner or operator of the source is exempted from demonstrating compliance with any applicable requirement. The permittee shall have available at the facility at all times and made available to an authorized representative of this Office upon request, documentation, including calculations if necessary, to demonstrate that an emission source or activity is insignificant.

2.31 Standard Application Form and Required Information [Sec. 3Q-0505 and 0507]

The permittee shall submit applications and required information in accordance with the provision of Sec. 3Q-0505 and 0507.

2.32 Property Rights [Sec. 3Q-0508(i)(8)]

This permit does not convey any property rights of any sort, or any exclusive privileges.

2.33 Refrigerant Requirements (Stratospheric Ozone and Climate Protection) [Sec. 3Q-0508(b)]

- A. If the permittee has appliances or refrigeration equipment, including air conditioning equipment, which use Class I or II ozone-depleting substances such as chlorofluorocarbons and hydrochlorofluorocarbons listed as refrigerants in 40 CFR 82 Subpart A, Appendices A and B, the permittee shall service, repair, and maintain such equipment according to the work practices and personnel certification requirements, and the permittee shall use certified recycling and recovery equipment specified in 40 CFR 82 Subpart F.
- B. The permittee shall not knowingly vent or otherwise release any Class I or II substance into the environment during the repair, servicing, maintenance, or disposal of any such device except as provided in 40 CFR 82 Subpart F.
- C. The permittee shall comply with all reporting and recordkeeping requirements of 40 CFR 82.166. Reports shall be submitted to the U.S. EPA or its designee as required.

2.34 Prevention of Accidental Releases - Section 112(r) [Sec. 3Q-0508(h)]

If the permittee is required to develop and register a risk management plan pursuant to Section 112(r) of the federal Clean Air Act, then the permittee is required to register this plan in accordance with 40 CFR Part 68.

2.35 Title IV Allowances [Sec. 3Q-0508(i)(1)]

The facility's emissions are prohibited from exceeding any allowances that the facility lawfully holds under Title IV of the Clean Air Act. This permit shall not limit the number of allowances held by the permittee, but the permittee may not use allowances as a defense to noncompliance with any other applicable requirement.

2.36 Air Pollution Alert, Warning or Emergency [Section 3D-0300]

Should the Director of this Office declare an Air Pollution Alert, Warning or Emergency, the permittee will be required to operate in accordance with the permittee's previously approved Emission Reduction Plan or, in the absence of an approved plan, with the appropriate requirements specified in Section 3D-0300.

2.37 Registration of Air Pollution Sources [Sec. 3D-0202]

The Director of this Office may require the permittee to register a source of air pollution. If the permittee is required to register a source of air pollution, this registration and required information shall be in accordance with Sec. 3D-0202(b).

2.38 Ambient Air Quality Standards [Sec. 3D-0501(e)]

In addition to any control or manner of operation necessary to meet emission standards specified in this permit, any source of air pollution shall be operated with such control or in such manner that the source shall not cause the ambient air quality standards in Sec. 3D-0400 to be exceeded at any point beyond the premises on which the source is located. When controls more stringent than named in the applicable emission standards in this permit are required to prevent violation of the ambient air quality standards or are required to create an offset, the permit shall contain a condition requiring these controls.

2.39 Odor [Sec. 3D-0522] Locally Enforceable Only

The permittee shall not cause or permit the emission of odors beyond the facility's property lines which are harmful, irritating or which unreasonably interfere with the use and enjoyment of any person's properties or living conditions, or any public properties or facilities. Such odors are prohibited by Sec. 3D-0522. No violation shall be cited, provided that the best practical treatment, maintenance, and control of odor(s) currently available is used. This requirement does not apply to normal agricultural practices, nor to accidental emissions of odors which are not normally produced during routine operations and activities as determined by the Director.

2.40 Fugitive Dust Control Requirement [Sec. 3D-0540]

The permittee shall not cause or allow fugitive dust emissions to cause or contribute to substantive complaints or excess visible emissions beyond the property boundary. If substantive complaints or excessive fugitive dust emissions from the facility are observed beyond the property boundaries for six minutes in any one hour (using Reference Method 22 in 40 CFR 60, Appendix A), the owner or operator may be required to submit and implement a fugitive dust control plan as described in Sec. 3D-0540(f).

New Source Performance Standards (NSPS) General Provisions - Permit Conditions

Following are conditions found in the 40 CFR Part 60 NSPS General Provisions. The following conditions only apply to sources subject to a relevant standard of a subpart of 40 CFR Part 60 except when otherwise specified in a particular subpart or in a relevant standard.

2.41 NSPS - General Provisions <40 CFR 60 Subpart A> [Sec. 3D-0524]

The permittee shall comply with all applicable requirements specified in the general provisions of the New Source Performance Standards (40 CFR 60 Subpart A) including but not limited to requirements concerning notifications, testing, monitoring, recordkeeping, modifications and reconstruction.

2.42 NSPS - Good Air Pollution Control Practice <40 CFR 60.11(d)> [Sec. 3D-0524]

At all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.

2.43 NSPS - Circumvention <40 CFR 60.12> [Sec. 3D-0524]

Permittee shall not build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard under 40 CFR 60. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

2.44 NSPS - Maintain Records - Startup/Shutdown/Malfunction <40 CFR 60.7(b)> [Sec. 3D-0524]

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

2.45 NSPS - Files Available for Inspection <40 CFR 60.7(f)> [Sec. 3D-0524]

The permittee shall maintain a file of all measurements, including, if applicable, performance test measurements and all other information required in 40 CFR 60 . This file shall be kept in a permanent form suitable for inspection and shall be retained at least two years following the date of such measurements, maintenance, reports, and records.

2.46 NSPS - Performance Testing Facilities Provided by Permittee <40 CFR 60.8(e)> [Sec. 3D-0524]

For any performance testing, the permittee shall provide, or cause to be provided, performance testing facilities as follows:

- A. Sampling ports adequate for the applicable test methods. This includes:
 1. constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures and
 2. providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
- B. Safe sampling platform(s) with safe access.
- C. Utilities for sampling and testing equipment.
- D. Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For purposes of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply.

Compliance Assurance Monitoring for Major Stationary Sources (CAM) - General Conditions - <40 CFR Part 64>

Following are conditions based on the requirements found in 40 CFR Part 64. These conditions only apply to sources subject to the CAM requirements.

2.47 CAM - Proper Maintenance <40 CFR 64.7(b)> [Sec. 3D-0614]

At all times, the permittee shall maintain the monitoring equipment, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

2.48 CAM - Continued Operation <40 CFR 64.7(c)> [Sec. 3D-0614]

Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the permittee shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The permittee shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

2.49 CAM - Response to Excursions or Exceedances <40 CFR 64.7(d)> [Sec. 3D-0614]

Upon detecting an excursion or exceedance, the permittee shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designed condition, or below the applicable emissions limitation or standard, as applicable.

Determination of whether the permittee has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process. Based on the results of this determination, this Office may require the permittee to develop and implement a Quality Improvement Plan (QIP). The elements of a QIP are identified in 40 CFR 64.8(b).

2.50 CAM - Documentation of Need for Improved Monitoring <40 CFR 64.7(e)> [Sec. 3D-0614]

After approval of the CAM plan, if the permittee identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the permittee shall promptly notify this Office and, if necessary, submit a proposed modification to this permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conduction monitoring and collecting data, or the monitoring of additional parameters.

**National Emission Standards for Hazardous Air Pollutants for Source Categories (NESHAP)
General Conditions - [Sec. 3D-1111]**

Following are conditions found in the 40 CFR Part 63 NESHAP General Provisions. The following conditions only apply to sources subject to a relevant standard of a subpart of 40 CFR Part 63 except when otherwise specified in a particular subpart or in a relevant standard.

2.51 NESHAP - General Provisions <40 CFR 63 Subpart A> [Sec. 3D-1111]

The permittee shall comply with all applicable requirements specified in the general provisions of the National Emission Standards for Hazardous Air Pollutants for Source Categories (40 CFR 63 Subpart A) including but not limited to requirements concerning notifications, testing, monitoring, recordkeeping, modifications, construction, and reconstruction.

2.52 NESHAP - Circumvention <40 CFR 63.4(b)> [Sec. 3D-1111]

The permittee shall not build, erect, install, or use any article, machine, equipment or process to conceal an emission that would otherwise constitute noncompliance with a relevant standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with a relevant standard based on the concentration of a pollutant in the effluent discharged to the atmosphere, the use of diluents to achieve compliance with a relevant standard for visible emissions, and the fragmentation of an operation such that the operation avoids regulation by a relevant standard.

2.53 NESHAP - Maintain Records <40 CFR 63.10(b)(2)> [Sec. 3D-1111]

For affected sources, the permittee shall maintain relevant records of:

- A. the occurrence and duration of each startup, shutdown, or malfunction of operation;
- B. the occurrence and duration of each malfunction of the air pollution control equipment;
- C. all maintenance performed on the air pollution control equipment;
- D. actions taken during periods of startup, shutdown, and malfunction;
- E. all information necessary to demonstrate compliance with the affected source's startup, shutdown, and malfunction plan when all actions taken are consistent with the procedures specified in the plan;
- F. each period during which a CMS is malfunctioning or inoperative;
- G. all required measurement needed to demonstrate compliance with a relevant standard;
- H. all results of performance tests, CMS performance evaluations, and opacity and visible emission observations;
- I. all measurements as may be necessary to determine the conditions of performance tests and performance evaluations;
- J. all CMS calibration checks;
- K. all adjustments and maintenance performed on CMS;

- L. any information demonstrating whether a source is meeting the requirements for a waiver of recordkeeping or reporting requirements if the source has been granted a waiver under 40 CFR 63.10(f);
- M. all emission levels relative to the criterion for obtaining permission to use an alternative to the relative accuracy test if the source has been granted such permission under 40 CFR 63.8(f)(6); and,
- N. all documentation supporting initial notifications and notifications of compliance status under 40 CFR 63.9.

2.54 NESHAP - Files Available for Inspection <40 CFR 63.10(b)(1)> [Sec. 3D-1111]

The permittee shall maintain files of all information required by 40 CFR Part 63 recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least five years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. At a minimum, the most recent two years of data shall be retained on site. The remaining three years of data may be retained off site.

2.55 NESHAP - Performance Testing Facilities Provided by Permittee <40 CFR 63.7(d)> [Sec. 3D-1111]

For any performance testing for each new source and, at the request of the Director, for each existing source, the permittee shall provide performance testing facilities as follows:

- A. Sampling ports adequate for test methods applicable to the affected source. This includes:
 - 1. Constructing the air pollution control system such that volumetric flow rates and pollutant emission rates can be accurately determined by applicable test methods and procedures; and
 - 2. Providing a stack or duct free of cyclonic flow during performance tests, as demonstrated by applicable test methods and procedures.
- B. Safe sampling platform(s).
- C. Safe access to sampling platform(s).
- D. Utilities for sampling and testing equipment.
- E. Any other facilities that the Director deems necessary for safe and adequate testing of a source.
- F. Unless otherwise specified in the applicable subpart, each performance test shall be conducted according to the requirements in 40 CFR 63.7.

SECTION 3 SPECIFIC LIMITATIONS AND CONDITIONS

The emission source(s) and associated air pollution control device(s) listed below are subject to the following specific terms, conditions, and limitations, including the monitoring recordkeeping, and reporting requirements to which those requirements apply:

3.1 Facility-Wide Emission Source Conditions

A. Prevention of Significant Deterioration (PSD) [Sec. 3D-0530]

1. Best Available Control Technology (BACT) for Volatile Organic Compounds

The permittee shall not use ethanol as a vehicle for introducing flavoring agents into tobacco except to manufacture tobacco products with ethanol-based flavorings as allowed in permit condition 3.11 and for the usage of trace amounts of ethanol inherently present in flavorings used at ES-15-851-1. This work practice standard has been determined to be BACT for emissions of volatile organic compounds at this facility.

2. Monitoring/Recordkeeping/Reporting [Sec. 3Q-0508(f)]

The permittee shall maintain updated records of production rates, throughputs, material usage, and other process operational information as is necessary to determine compliance with the ethyl alcohol use limitations described above.

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office. [Sec. 3D-0605 and 1105]

3. Testing [Sec. 3D-0501(b)]

If emissions testing is required by this Office or the U.S. EPA, or the permittee submits emissions testing to this Office in support of a permit application, the permittee shall perform such testing in accordance with the appropriate U.S. EPA reference method(s) as approved by this Office. The permittee may request approval from this Office for an alternate test method or procedure in writing.

B. Limitation to Avoid Being Major for Hazardous Air Pollutants [Sec. 3D-1111 and 3Q-0317(a)(5)]

In order to remain classified as an area source for hazardous air pollutants under Sec. 3D-1111 and thereby avoid regulatory requirements of future NESHAP regulations, the facility must comply with the following:

1. Emission Limits -

Vinyl acetate emissions from the facility shall only derive from vinyl acetate in adhesives used at the facility. Total vinyl acetate emissions from the facility and shall not exceed 9.9 tons for any 12-month period.

2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f)]**

Compliance with the limit specified in condition 3.1(B)(1) shall be demonstrated by the following:

- (a) the permittee shall maintain monthly records of all adhesive usage and of the weight fraction of vinyl acetate in the adhesives, as necessary to calculate vinyl acetate emissions using the formula in Section (b) below; and,
- (b) total vinyl acetate emissions shall be calculated at the end of each month for the previous 12-month period using the following formula:

$$E = \sum_{i=1}^{12} \sum_{j=1}^n (W_j \times C_j) / 2000$$

E = 12-MONTH VINYL ACETATE EMISSIONS (TONS).
 W_j = MONTHLY USAGE IN POUNDS FOR ADHESIVE j.
 C_j = WEIGHT FRACTION OF VINYL ACETATE IN ADHESIVE j.
 i = MONTH 1 THROUGH 12.

3. **Reporting - [Sec. 3Q-0508(f)]**

The permittee shall submit a semiannual report to this Office containing the following information:

- (a) total vinyl acetate emissions (tons) emitted each month and for each 12-month period ending on each month using the formula in Section 3.1(B)(2)(b) above; and,
- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

3.2 Source Specific Emission Limits:

Prevention of Significant Deterioration (PSD) - Limits to Avoid PSD Review

A. Prevention of Significant Deterioration:

ES-1-851-1 [Sec. 3D-0530 and 3Q-0317]

1. **Standard/Operation requirements for particulate matter and VOCs for ES-1-851-1**

In any consecutive 12-month period, VOC emissions shall not exceed 40 tons, and PM emissions shall not exceed 25 tons. Compliance with these emission limits is demonstrated by limiting the throughput. Combined throughput rates shall not exceed 216,705 tons of tobacco (dry weight) per monthly rolling 12-month total in order to remain below the significant levels established for exemption from further regulation under Prevention of Significant Deterioration for particulate matter and VOC emissions.

2. **Monitoring/Recordkeeping requirement [Sec. 3Q-0508(f)]**

The permittee shall maintain monthly and monthly rolling 12-month total records of tobacco throughput rates (dry weight) for ES-01. These records shall be maintained at the facility for a period of five years following the date of such record and shall be made available upon request to this Office.

3. **Reporting requirement [Sec. 3Q-0508(f)]**

The permittee shall submit a report of the monitoring requirements to this Office by January 30th and July 30th for the preceding six-month period.

B. Prevention of Significant Deterioration:

ES-18-851-1, ES-19-851-1, and F-16-851-1 [Sec. 3D-0530 and 3Q-0317]

1. **Emission limit for volatile organic compounds (VOC)**

The combined emissions of VOC from these sources shall be limited to no more than 100.1 tons in any consecutive 12-month period.

2. **Monitoring/Recordkeeping requirement [Sec. 3Q-0508(f)]**

The permittee shall maintain updated records of production rates, throughputs, material usage, and other process operational information as is necessary to determine compliance with the emission limit described above. At a minimum these records shall include data sufficient to calculate the combined VOC emission rate from these emission sources on a monthly and monthly rolling 12-month total basis. The permittee shall maintain monthly and monthly rolling 12-month total records of VOC emissions from these emission sources. These records shall be maintained at the facility for a period of five years following the date of such record and shall be made available upon request to this Office.

3. **Reporting requirement [Sec. 3Q-0508(f)]**

The monthly and monthly 12-month total records described in the paragraph above shall form the basis of a semi-annual report which shall be submitted to this Office by January 30th and July 30th for the proceeding six-month period.

C. Prevention of Significant Deterioration:

ES-25-851-1, ES-26-851-1, and ES-27-851-1 [Sec. 3D-0530 and 3Q-0317(b)]

1. Emission limit for volatile organic compounds (VOC)

The combined emissions of VOC from tobacco processing in
 ES-25-851-1: Small Batch Receiving and Blending
 ES-26-851-1: Small Batch Casing and Drying
 ES-27-851-1: Small Batch Casing and Cutting
 shall not exceed 39.5 tons in any consecutive 12-month period.

2. Monitoring/Recordkeeping - [Sec. 3Q-0508(f)]

Compliance with the limit specified in condition 3.2(C)(1) shall be demonstrated by the following:

- (a) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$(A*W + B*X + C*Y + D*Z + 14.2) / 2000 = \text{monthly VOC emissions (tons)}$$

where:

- A = monthly dry tons of tobacco processed in Small Batch Receiving and Blending (ES-25-851-1);
- B = monthly dry tons of tobacco processed in Small Batch Casing and Drying (ES-26-851-1);
- C = monthly dry tons of tobacco processed in Small Batch Casing and Cutting (ES-27-851-1);
- D = monthly pounds of ethanol applied in Small Batch Casing and Cutting (ES-27-851-1)
- 14.2 = monthly potential combined pounds of VOC from fuel combustion (associated with production in ES-25-851-1, ES-26-851-1 and ES-27-851-1) in the facility's boilers (ES-1-854-8, ES-2-854-8, ES-3-854-8, and ES-TEMP) and the thermal incinerator (CD-RTO-851-1).
- W = VOC emission factor (lb VOC/dry ton tobacco) for tobacco processed in Small Batch Receiving and Blending (ES-25-851-1), from the permit application for the 00745-TV-39 permit;
- X = VOC emission factor (lb VOC/dry ton tobacco) for tobacco processed in Small Batch Casing and Drying (ES-26-851-1), from the permit application for the 00745-TV-39 permit;
- Y = VOC emission factor (lb VOC/dry ton tobacco) for tobacco processed in Small Batch Casing and Cutting (ES-27-851-1), from the permit application for the 00745-TV-39 permit;

Z = VOC emission factor (lb VOC/lb ethanol applied) ethanol applied in Small Batch Casing and Cutting (ES-27-851-1) from the permit application for the 00745-TV-39 permit.

- (b) Each month the permittee shall calculate the monthly VOC total and the 12-month VOC total.
- (c) Each 12-month VOC total shall not exceed the limit specified in condition 3.2(C)(1).

These records shall be maintained at the facility for a period of five years following the date of such record and shall be made available upon request to this Office.

3. **Reporting - [Sec. 3Q-0508(f)]**

- (a) The permittee shall submit a semiannual report to this Office which includes the total VOC emissions (tons) emitted each month and the total VOC emissions (tons) emitted each 12-month period.
- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

3.3 Particulate Emission Limits

A. Particulates from Fuel Burning Indirect Heat Exchangers [Sec. 3D-0503]

1. Particulate Allowable Emission Rate [Sec. 3D-0503]

- (a) **Building 854-8 Boilers: ES-1-854-8, ES-2-854-8 and ES-3-854-8** - Emissions of particulate matter from these emission sources shall not exceed the allowable emission rate calculated by the equation $E=1.09 * Q^{-0.2594}$; where E = allowable emission limit for particulate matter in lb/million Btu, and Q =maximum heat input in million Btu/hr of all fuel burning indirect heat exchangers, determined according to Sec. 3D-0503(c) and (e).

Emission Source ID	Value of Q	Particulate Emission Limit (E)
ES-1-854-8	1256 million Btu/hr	0.17 lb/million Btu
ES-2-854-8	1256 million Btu/hr	0.17 lb/million Btu
ES-3-854-8	1256 million Btu/hr	0.17 lb/million Btu

- (b) **Temporary Boiler(s): ES-TEMP** - Emissions of particulate matter from ES-TEMP shall not exceed the allowable emission rate calculated by the equation $E=1.09 * Q^{-0.2594}$; where E = allowable emission limit for particulate matter in lb/million Btu, and Q =maximum heat input in million Btu/hr of all fuel burning indirect heat exchangers, determined according to Sec. 3D-0503(c) and (e).

- 2. **Monitoring/Recordkeeping/Reporting requirements [Sec. 3Q-0508(f)]** - No monitoring/recordkeeping/reporting is required for the specific purpose of demonstrating compliance with the above standard because the fuels being combusted are natural gas, No. 2 fuel oil, or diesel fuel with a sulfur content not to exceed 0.05% sulfur by weight which inherently meet the standard. However, the permittee shall maintain the appropriate records for raw material usage and/or production rates in order to calculate the emissions data needed to fulfill the requirements for condition 2.13 entitled Annual Emission Inventory Requirements.

B. Control of Particulates from Miscellaneous Industrial Processes - [Sec. 3D-0515]

1. Particulate Allowable Emissions Rate - [Sec. 3D-0515]

Emissions for particulate matter from emission sources designated in condition 1.1, shall not exceed the allowable emission rate calculated with the equation $E = 4.10(P)^{0.67}$ calculated to three significant figures for process rates up to 30 tons/hr, or with the equation $E = 55.0(P)^{0.11} - 40$ calculated to three significant figures for process rates greater than 30 tons/hr; where E equals the maximum allowable PM emission rate in lb/hr, and P equals the process rate in tons/hr. Accordingly, the potential emission rate from this equipment shall at no time exceed the emission rates based on maximum production.

2. **Monitoring/Recordkeeping/Reporting requirements [Sec. 3Q-0508(f)]** - For sources with particulate matter control, condition 3.6 provides monitoring, recordkeeping, and reporting requirements sufficient to assure compliance with the above standard. For sources without particulate matter control, no monitoring, recordkeeping, or reporting is required for the specific purpose of demonstrating compliance with the above standard because each of those sources inherently meets the standard based on the nature of the source.
- C. **Control of Particulates from Processes Subject to BACT - [Sec. 3D-0530]**
1. **Particulate Matter Control [Sec. 3D-0530]** - Total particulate matter emissions from emission sources designated in condition 1.1, shall be controlled by properly operated and maintained fabric filters or wet scrubbers where such controls are present. This control strategy has been determined to be Best Available Control Technology (BACT).
 2. **Monitoring/Recordkeeping/Reporting requirements [Sec. 3Q-0508(f)]** - For the sources subject to the above BACT requirement, condition 3.6 provides monitoring, recordkeeping, and reporting requirements sufficient to assure that the control devices are properly operated and maintained.

3.4 Sulfur Dioxide Emission Limits

A. Sulfur Dioxide Emissions from Combustion Sources [Sec. 3D-0516]

1. **Sulfur Dioxide Standard [Sec. 3D-0516]** - Emissions of sulfur dioxide from emission sources designated in condition 1.1, shall not exceed 2.3 lb/MMBtu input.
2. **Monitoring/Recordkeeping/Reporting Requirements [Sec. 3Q-0508(f)]** - No monitoring/recordkeeping/reporting is required for the specific purpose of demonstrating compliance with the above standard because the fuels being combusted are natural gas, No. 2 fuel oil, diesel fuel with a sulfur content not to exceed 0.05% sulfur by weight, or propane which inherently meet the standard. However, the permittee shall maintain the appropriate records for raw material usage and/or production rates in order to calculate the emissions data needed to fulfill the requirements for condition 2.13 entitled Annual Emission Inventory Requirements.

B. New Source Performance Standards (NSPS), Subpart Dc

Boiler #5 (ES-1-854-8), Boiler #6 (ES-2-854-8), and Boiler #7 (ES-3-854-8)

1. **New Source Performance Standards <40 CFR 60.1 - 60.19 and 40 CFR 60.40c - 60.48c> [Sec. 3D-0524]** - These boilers are subject to NSPS Subpart A (General Provisions) and Subpart Dc (Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units).
2. **Sulfur Dioxide Standard While Firing No. 2 Fuel Oil <40 CFR 60.42c(d)> [Sec. 3D-0524]** - Sulfur dioxide emissions from the boilers shall not exceed 0.50 lb/million Btu heat input. To comply with this standard the permittee shall not combust oil in the boilers that contains greater than 0.5 weight percent sulfur. Compliance with this standard shall be continuously demonstrated by combusting No. 2 fuel oil, as certified by the fuel supplier.
3. **Monitoring [Sec. 3Q-0308(a)(1)]** - Approved fuels for the boilers are natural gas and No. 2 fuel oil. Any change in fuel type for the boilers must receive prior approval from the Office of Environmental Assistance and Protection.
4. **Recordkeeping requirement <40 CFR 60.48c(f), (g) and (i)> [Sec. 3D-0524 and 3Q-0308(a)(1)]** - The permittee shall maintain the following records for a period of five years following the date of such record.
 - (a) For each shipment of No. 2 fuel oil, the permittee shall obtain and maintain a written statement from the fuel supplier that certifies that all the fuel oil included in the shipment complies with the American Society for Testing and Materials (ASTM) specifications for No. 2 fuel oil. This written statement shall also include the name of the company supplying the fuel.
 - (b) The permittee shall record and maintain monthly records of the amount of No. 2 fuel oil and the amount of natural gas combusted during the reporting period.

5. **Reporting requirement <40 CFR 60.48c(e) and (g)> [Sec. 3D-0524]** - The permittee shall submit a semiannual report to this Office no later than January 30th for the period July through December, and no later than July 30th for the period January through June. Each report shall include the following items:
- (a) The calendar dates covered in the reporting period.
 - (b) A copy of the fuel supplier certification, as described in condition 3.4(B)(4)(a), for each shipment of No. 2 fuel oil received during the reporting period.
 - (c) The amount of fuel oil and the amount of natural gas combusted during the reporting period. If no fuel oil or natural gas was combusted during the reporting period, a written statement signed by the permittee certifying that fact shall be provided to satisfy this reporting requirement for the given fuel.
 - (d) If fuel oil was combusted during the reporting period, a written statement signed by the permittee certifying that all of the fuel oil combusted during the reporting period is represented by the fuel supplier certifications submitted for the current reporting period or by previously submitted fuel supplier certifications.

3.5 Control of Visible Emissions

A. Control of Visible Emissions [Sec. 3D-0521]

1. **Opacity Standard [Sec. 3D-0521(d)]** - Visible emissions from emission sources designated in condition 1.1, shall not exceed 20% opacity when averaged over a six-minute period with the following exceptions:
 - (a) No six-minute period exceeds 87% opacity;
 - (b) No more than one six-minute period exceeds 20% opacity in any hour; and
 - (c) No more than four six-minute periods exceed 20% opacity in any 24-hour period.
2. **Monitoring/Recordkeeping/Reporting Requirements [Sec. 3Q-0508(f)]**
 - (a) **Combustion Sources Not Subject to the NSPS Subpart Dc Opacity Standard** - No monitoring, recordkeeping, or reporting is required for the specific purpose of demonstrating compliance with the above standard because the fuels being combusted are natural gas, No. 2 fuel oil, diesel fuel with a sulfur content not to exceed 0.05% sulfur by weight, or propane which inherently meet the standard. However, the permittee shall maintain the appropriate records for raw material usage and/or production rates in order to calculate the emissions data needed to fulfill the requirements for condition 2.13 entitled Annual Emission Inventory Requirements.
 - (b) **Non-Combustion Sources** - For sources with particulate matter control, condition 3.6 provides monitoring, recordkeeping, and reporting requirements sufficient to assure compliance with the above standard. For sources without particulate matter control, no monitoring, recordkeeping, or reporting is required for the specific purpose of demonstrating compliance with the above standard because each of those sources inherently meets the standard based on the nature of the source.

B. New Source Performance Standards (NSPS) Subpart Dc - Opacity

Boiler #5 (ES-1-854-8), Boiler #6 (ES-2-854-8), and Boiler #7 (ES-3-854-8)

1. **Opacity Standard While Firing No. 2 Fuel Oil [40 CFR 60.43c(c) (Subpart Dc)] [Sec. 3D-0524]** - Visible emissions from emission sources designated in condition 1.1, shall not exceed 20% opacity when averaged over a six-minute period, except for one six-minute period per hour of not more than 27% opacity. This standard shall apply at all times, except during periods of startup, shutdown, or malfunction.
2. **Monitoring/Recordkeeping/Reporting Requirements [Sec. 3Q-0508(f)]** - No monitoring, recordkeeping, or reporting is required for the specific purpose of demonstrating compliance with the above standard because the fuel being combusted inherently meets the standard. However, the permittee shall maintain the appropriate records for raw material usage and/or production rates in order to calculate the emissions data needed to fulfill the requirements for condition 2.13 entitled Annual Emission Inventory Requirements.

3.6 Monitoring, Recordkeeping, and Reporting

A. Periodic Monitoring [Sec. 3Q-0508(f)]

Sources Not Subject to 40 CFR Part 64 Compliance Assurance Monitoring (CAM)

1. **Periodic monitoring for equipment controlled by fabric filters** - Particulate matter emissions from emission sources designated in condition 1.1, shall be controlled during all periods of operation. To ensure the optimum efficiency of the control devices, the permittee shall perform inspections and maintenance in a manner and frequency consistent with good practice for minimizing emissions. At a minimum, an annual internal inspection of the fabric filters' structural integrity and operation shall be performed.
2. **Periodic monitoring for equipment controlled by wet scrubbers** - Particulate matter emissions from emission sources designated in condition 1.1, shall be controlled during all periods of operation. To ensure that optimum control efficiency is maintained, the permittee shall perform inspections and preventative maintenance in a manner consistent with good practice for minimizing emissions. The inspection and maintenance requirement must include the following:
 - (a) an annual visual internal inspection of the wet scrubbers' structural integrity and operation;
 - (b) the permittee shall maintain and operate low water pressure switches for each wet scrubber and an interlock system that shuts the process down during a low-flow condition.
3. **Recordkeeping requirement** - A log shall be maintained on-site with the dates of inspection and maintenance activities, inspection results, and maintenance performed.
4. **Reporting requirement** - The permittee shall submit a summary report of the monitoring requirements to this Office by January 30th and July 30th for each preceding six-month period.

B. Compliance Assurance Monitoring (CAM) [Sec. 3D-0614, 40 CFR Part 64]

1. **Monitoring - Fabric Filter Inspection & Maintenance** - To ensure the optimum efficiency of the control devices as designated in condition 1.1, the permittee shall perform inspections and maintenance in a manner and frequency consistent with good practice for minimizing emissions. Inspection and maintenance must include the following:
 - (a) An annual visual internal inspection of the fabric filters' structural integrity and operation.
 - (b) Upon evidence of a problem, an investigation shall be initiated and maintenance activities, required to correct the problem, shall be scheduled and performed. The investigation and corrective action shall be conducted as expeditiously as practicable in accordance with good air pollution control practice for minimizing emissions.
 - (c) Only trained maintenance personnel will perform inspection and maintenance.

- (d) An excursion shall be defined as failure to perform inspections and preventative maintenance on at least an annual basis or failure to perform repairs to correct abnormal occurrences in a timely manner.

2. **Monitoring - Fume Incinerator**

To ensure the optimum efficiency of the fume incinerator (CD-130-851-1) the permittee shall perform the following monitoring and recordkeeping activities:

- (a) all waste gas and particulate matter emissions resulting from the sublimation loop shall be vented to the fume incinerator at all times the process is in operation. At no time shall this waste stream bypass the incinerator except for periods of malfunction/breakdown; and
- (b) the incinerator combustion chamber shall operate at an air temperature of no less than 650 F and no more than 1750 F; and
- (c) the incinerator shall be equipped with a temperature gauge situated to monitor the air temperature in the combustion chamber. The temperature gauge shall be checked and calibrated as required and in accordance with the manufacturer's written instruction; and
- (d) the temperature shall be monitored continuously while the process is operating and averaged every 15 minutes to ensure proper combustion chamber operation. The temperature data shall be collected by the incinerator operating system and kept in a log (written or electronic form), maintained on site and made available for inspection upon request by this Office; and
- (e) an excursion shall be defined as an incinerator combustion chamber temperature reading below 650 F or above 1750 F. Upon detection, the process shall be shut down and an investigation into the cause of the excursion shall be initiated; and
- (f) the cause of any excursion, results of the investigation and any corrective action taken, as well as other supporting information, shall be documented in a log (written or electronic form), maintained on site and made available for inspection upon request by this Office. The log shall include the date of the investigation, the inspectors name and any corrective actions performed as a result of the investigation.

3. **Monitoring - Thermal Incinerator**

To ensure the optimum efficiency of the thermal incinerator (CD-RTO-851-1), the permittee shall perform the following operational, monitoring and recordkeeping activities:

- (a) the incinerator combustion chamber shall operate at an air temperature of no less than 1500 °F unless a revised minimum temperature has been established in accordance with condition 3.6(B)(3)(f);

- (b) the incinerator shall be equipped with a temperature gauge to monitor the air temperature in the combustion chamber. The temperature gauge shall be checked and calibrated in accordance with the manufacturer's written instruction;
- (c) the temperature shall be monitored continuously while any of the associated processes are operating and recorded on a 15-minute block average basis with four 15-minute block averages each hour to ensure proper combustion chamber operation. One-hour and 3-hour block averages of the incinerator combustion chamber temperature shall be calculated and recorded, based on the associated 15-minute block averages. The temperature data shall be collected by the incinerator operating system and kept in a log (written or electronic form), maintained on site and made available for inspection upon request by this Office;
- (d) upon detection of a 1-hour block average combustion chamber temperature below 1500 °F or, if applicable, a revised minimum temperature established during performance testing, the process shall be shut down and an investigation into the cause of the low temperature shall be initiated;
- (e) the cause of any low 1-hour block average combustion chamber temperature event, results of the investigation and any corrective action taken, as well as other supporting information, shall be documented in a log (written or electronic form), maintained on site and made available for inspection upon request by this Office. The log shall include the date of the investigation, the inspectors name and any corrective actions performed as a result of the investigation.
- (f) Performance testing may be conducted with the thermal incinerator combustion chamber temperature operating at less than 1500 °F in order to demonstrate that the thermal incinerator achieves at least 98% destruction efficiency and is capable of achieving the requirements of condition 3.11(B)(1) at the lower temperature. The testing shall be conducted in accordance with Section 3D-2600 of the FCAQTC. For the performance testing, the following conditions apply: **[Sec. 3D-0614 and Section 3D-2600]**
 - (i) Obligation – The permittee shall perform any required test at his own expense. **[Sec. 3D-2602(a)]**
 - (ii) Means to allow sampling and measurement – The permittee shall provide sampling ports, pipes, lines, or appurtenances for the collection of samples and data required by the test procedure; scaffolding and safe access to the sample and data collection locations; and light, electricity, and other utilities required for sample and data collection. **[Sec. 3D-2602(e)]**

- (iii) Test methods – Testing shall be conducted in accordance with FCAQTC Section 3D-2600 except as may be otherwise required in FCAQTC Sec. 3D-0524, 0912, 1110, 1111, 1415 or a permit condition specific to the emissions source. Requests to use an alternative test method or procedure must be made in writing at least 45 days prior to the test and approved by this Office. Alternatives to test methods or procedures specified for emissions sources subject to test requirements under 40 CFR 60, 40 CFR 61 or 40 CFR 63, may require approval by the U.S. EPA. **[Sec. 3D-2601, 3D-2602(i) and 3Q-0308(a)(1)]**
 - (iv) Process rate – The owner or operator of the source shall ensure that the equipment or process being tested is operated at the production rate that best fulfills the purpose of the test. **[Sec. 3D-2602(g)]**
 - (v) Protocol – The permittee shall arrange for air emission testing protocols to be provided to the Director prior to air pollution testing. Testing protocols are not required to be pre-approved prior to air pollution testing. Emission testing protocols must be submitted at least 45 days before conducting the test for pre-approval prior to testing if requested by the permittee. **[Sec. 3D-2602(c)]**
 - (vi) Notification – The permittee shall notify this Office at least 15 days before beginning the test so that a representative of this Office may be present to observe the test. **[Sec. 3D-2602(d)]**
 - (vii) Emissions test report – The final air emission test report shall be submitted to this Office not later than 30 days after sample collection. The permittee may request an extension to submit the final test report if the extension request is a result of actions beyond the control of the permittee. Unless otherwise specified in the applicable permit or during the course of the protocol review, the results of the tests shall be expressed in the same units as the emission limits given in the rule for which compliance is being determined. **[Sec. 3D-2602(f) & (h)]**
4. **Monitoring-Visual Stack Observations** - In order to demonstrate compliance with the CAM plan for control devices identified in condition 1.1, the permittee shall perform visual stack observations. As a minimum, the visual stack observation program shall include the following:

- (a) With respect to the CAM plan visual stack observations, an "operational day" begins at 8:00:00 AM and ends at 7:59:59 AM the following calendar day. Visible emissions from each stack shall be monitored for the presence of visible emissions, once per operational day for each plant operational day. The visible emissions observation data for each stack must be available for at least 90 percent of the facility's operating days during the six-month reporting period to ensure compliance with this requirement. If an emission source is not operating, a record of this fact along with the corresponding date and time shall substitute for the daily check.
 - (b) The presence of any visible emissions shall trigger an investigation to determine the cause and, if applicable, corrective action. The investigation and corrective action shall be conducted as expeditiously as practicable in accordance with good air pollution control practice for minimizing emissions. The visual observation shall be repeated as soon as practicable after the investigation and completion of any corrective action to verify that the visual emissions are no longer present. If the visible emissions are present after the investigation and corrective action has been taken, the emissions shall be considered an excursion.
 - (c) Observers shall receive on-the-job training pertaining to visual observations and what constitutes an excursion.
5. **Recordkeeping** - Records of the monitoring required under conditions 3.6(B)(1) through (5) shall be maintained on-site, made available to Office personnel, that include the following:
- (a) Maintenance of fabric filters - dates of inspections and maintenance activities; results of investigations and corrective actions taken; names of persons conducting activities; records of employee on-the-job training for inspection and maintenance.
 - (b) Maintenance of fume incinerator- the cause of any excursion; results of the investigation and any corrective action taken; the date of any investigation; the inspectors name; any corrective actions performed as a result of the investigation.
 - (c) Maintenance of thermal incinerator- the cause of any excursion; results of the investigation and any corrective action taken; the date of any investigation; the inspectors name; any corrective actions performed as a result of the investigation.
 - (d) Visual observations - date/time of each observation; person performing observation; results of observation (visible emissions present or absent); results of investigation and corrective action if visible emissions are present; records of employee on-the-job training for visual observations.

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

6. **Reporting requirement** - The permittee shall submit a summary report of all monitoring requirements in this section to this Office by January 30th and July 30th for each preceding six-month period.

3.7 Work Practices for Sources of Volatile Organic Compounds [Sec. 3D-0958]

ES-18-851-1, ES-19-851-1, F-13-851-1, and F-16-851-1

- A. **Work practice standards [Sec. 3D-0958(c) and 3Q-0508(i)(16)]** - For these emission sources, the permittee shall:
1. store all material, including waste material, containing volatile organic compounds in containers covered with a tightly fitting lid that is free of cracks, holes, or other defects, when not in use,
 2. clean up spills as soon as possible following proper safety procedures,
 3. store wipe rags in closed containers,
 4. not clean sponges, fabric, wood, paper products, and other absorbent materials, unless volatile organic compound emissions are captured and controlled,
 5. drain solvents used to clean supply lines and other coating equipment into containers designed for closure, and close containers immediately after each use,
 6. clean mixing, blending, and manufacturing vats and containers by adding cleaning solvent, closing the vat or container before agitating the cleaning solvent. The spent cleaning solvent shall then be poured into a closed container.
- B. **Monitoring and Recordkeeping requirements [Sec. 3Q-0508(f)]** - To ensure compliance with the work practice standards specified in condition 3.7(A) the permittee shall perform weekly inspections at each affected emissions source to verify compliance with the work practices and identify any deviations. The results of the inspections and any deviations shall be recorded in a log (written or electronic form), maintained on site and made readily available upon request by a representative of this Office. The log shall contain the following:
1. the date and time of each inspection;
 2. the results of each inspection; and
 3. all deviations from required work practice standards and the corrective actions taken.
- C. **Alternative VOC work practice monitoring and recordkeeping requirements [Sec. 3D-0958(c), 3Q-0508(f), and 3Q-0508(i)(16)]** - The permittee may perform documented annual employee training as an alternative monitoring/recordkeeping compliance method for the work practice requirements specified in condition 3.7(A). To ensure compliance with this requirement the permittee shall:
1. train all personnel involved in operation of the above equipment, at least annually, in accordance with the reasons, procedures and importance of VOC work practice methods. All personnel shall be trained prior to being involved in the operation; and
 2. maintain records on site demonstrating that the annual training program is in place. These records shall be made available for inspection upon request by this Office and shall include, but not be limited to:

- (a) an up-to-date list of personnel involved in operation of the above equipment and documentation of successful completion of both initial and annual training including dates of the training sessions; and
 - (b) an outline of the subjects covered in the initial and annual training for each group of personnel.
- D. **Reporting requirements [Sec.3D-0508(f)(2)]** - The permittee shall submit a summary report of the monitoring requirements specified in conditions 3.7(B) and (C) to this Office by January 30th and July 30th for each preceding six-month period. This report shall contain the total number of weeks in which the work practice standards weekly inspection was not made during the reporting period. The report shall also include which monitoring/recordkeeping method was selected during the reporting period to demonstrate compliance with condition 3.7(A) and the date of a switch being made from one compliance method to the other.

3.8 National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines (40 CFR 63, Subpart ZZZZ)

Specific emission source permit conditions for ES-4-854-8:

Emergency Generator, 3,210 HP, *Diesel-fired, 19.92 mmBtu/hr

*The diesel fuel shall be No. 2 fuel oil with a sulfur content no greater than 0.5 weight percent sulfur unless the requirement to use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel has been triggered in accordance with condition 3.8(C).

FCAQTC Sec. 3D-1111 "National Emission Standards for Hazardous Air Pollutants"-

For ES-4-854-8, the permittee shall comply with all applicable provisions, including the maintenance and recordkeeping requirements contained in FCAQTC Sec. 3D-1111, as promulgated in 40 CFR 63, Subpart ZZZZ, "National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Reciprocating Internal Combustion Engines (RICE)", including Subpart A "General Provisions." The permittee shall comply with the definition of emergency stationary RICE in 40 CFR 63.6675 and the following stationary RICE provisions.

<40 CFR Part 63, Subpart ZZZZ> [Sec. 3D-1111]

A. **Maintenance and Work Practices** – Pursuant to 40 CFR 63.6603(a), 63.6625(e), (f), and (h) and 63.6640(f) the permittee shall comply with the following:

1. Change the oil and filter every 500 hours of operation or annually, whichever comes first. The permittee has the option to utilize an oil analysis program as provided in 40 CFR 63.6625(i) in order to extend the specified oil change requirement.
2. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary.
3. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
4. Operate and maintain the engine and control device (if any) according to the manufacturer's emission related written instructions or maintenance plan developed by the permittee that minimizes emissions from the engine to the extent practicable.
5. Install a non-resettable hour meter if one is not already installed.
6. Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.

7. If the engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements on the schedules required in conditions 3.8(A)(1) through (3), or if performing the management practice on the required schedules would otherwise pose an unacceptable risk under federal, state or local law, the management practices can be delayed until the emergency is over or the unacceptable risk under federal, state, or local law has abated. The management practice shall be performed as soon as possible after the emergency has ended or the unacceptable risk has abated. The Permittee shall report any failure to perform the management practice on the schedule required and the federal, state, or local law under which the risk was deemed unacceptable.
 8. At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to this Office which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- B. **Operation** – The permittee shall operate the emergency generator in accordance with 40 CFR 63. 6640(f), and the following conditions. If the permittee fails to operate the emergency generator according to these requirements, the emergency generator will not be considered an emergency engine and must meet all requirements for non-emergency engines.
1. There is no time limit on the use of the emergency generator in emergency situations.
 2. The permittee may operate the engine for any combination of the purposes specified in conditions 3.8(B)(2)(a) through (c) for a maximum of 100 hours per calendar year.
 - a. The engine may be operated for maintenance checks and readiness testing, provided that the tests are recommended by federal, state or local government, the manufacturer, the vendor, the regional transmission authority or equivalent balancing authority and transmission operator, or the insurance company associated with the engine. The permittee may petition the Director for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the permittee maintains records indicating that federal, state, or local standards require maintenance and testing of the engine beyond 100 hours per calendar year.

- b. The engine may operate for emergency demand response for periods in which the Reliability Coordinator under the North American Electric Reliability Corporation (NERC) Reliability Standard EOP-002-3, Capacity and Energy Emergency or other authorized entity as determined by the Reliability Coordinator has declared an Energy Emergency Alert Level 2 as defined in the NERC Reliability Standard EOP- 002-3.
 - c. The engine may be operated for periods where there is a deviation of voltage or frequency of 5 percent or greater below standard voltage or frequency.
 3. Pursuant to 40 CFR 63.6640(f)(4), the engine may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in condition 3.8(B)(2). Except as provided in conditions 3.8(B)(3)(a) and (b), the 50 hours per year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for the facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity.
 - a. Prior to May 3, 2014, the 50 hours per year for non-emergency situations can be used for peak shaving or non-emergency demand response to generate income for the facility, or to otherwise supply power as part of a financial arrangement with another entity if the engine is operated as part of a peak shaving (load management program) with the local distribution system operator and the power is provided only to the facility itself or to support the local distribution system.
 - b. The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if ALL of the following conditions are met:
 - i. The engine is dispatched by the local balancing authority or local transmission or distribution system operator.
 - ii. The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.
 - iii. The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.
 - iv. The power is provided only to the facility itself or to support the local transmission and distribution system.

- v. The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.
4. At all times the permittee shall operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to this Office which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
- C. **Fuel Requirements** – Pursuant to 40 CFR 63.6604(b), beginning January 1, 2015, an emergency engine that operates for the purposes specified in condition 3.8(B)(3)(b) or operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in condition 3.8(B)(2)(b) or (c) shall use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. Any existing diesel fuel purchased prior to January 1, 2015 may be used until depleted. The diesel fuel requirements of 40 CFR 80.510(b) are shown below:

Sulfur content	15 ppm maximum.
Cetane index or Aromatic content	A minimum cetane index of 40; or A maximum aromatic content of 35 volume percent.

- D. **Recordkeeping** – Pursuant to 40 CFR 63.6655(d), (e) and (f), the permittee shall keep records for at least five (5) years showing:
1. The engine was operated and maintained according to the manufacturer’s emission related operation and maintenance instructions or the permittee’s maintenance plan which must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
 2. If applicable, the parameters that are analyzed as part of the oil analysis program, the results of the analysis, and the oil changes for the engine.
 3. The hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation; including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engine is used for purposes specified in condition 3.8(B)(2)(b) or (c), or condition 3.8(B)(3)(b), then the permittee shall keep records of the notification of the emergency situation, and the date, start time and end time of the engine operation for these purposes.

- E. **Reporting** – Pursuant to 40 CFR 63.6650(h), if the engine operates for the purposes specified in condition 3.8(B)(3)(b), or operates or is contractually obligated to be available for more than 15 hours per calendar year for the purposes specified in condition 3.8(B)(2)(b) or (c), the permittee shall submit an annual report to this Office. The first annual report shall be submitted no later than March 31, 2016 and cover calendar year 2015. Subsequent annual reports shall be submitted by March 31 of each year and cover the previous calendar year.

The annual report must also be submitted electronically to EPA through the specific NESHAP Subpart ZZZZ reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX). However, if the reporting form specific to NESHAP Subpart ZZZZ is not available in CEDRI at the time that the report is due, the written report shall be submitted to EPA at the appropriate address listed in 40 CFR 63.13.

EPA Region IV
Director, Air, Pesticides and Toxics Management Division
Atlanta Federal Center
61 Forsyth Street
Atlanta, GA 30303-3104

The annual report shall contain the following information:

1. Company name and address where the engine is located.
2. Date of the report and beginning and ending dates of the reporting period.
3. Engine site rating and model year for each engine.
4. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
5. Hours operated for the purposes specified in 3.8(B)(2)(b) or (c), including the date, start time, and end time for engine operation.
6. Number of hours the engine is contractually obligated to be available for the purposes specified in condition 3.8(B)(2)(b) or (c).
7. Hours spent for operation for the purpose specified in condition 3.8(B)(3)(b) including the date, start time, and end time for engine operation. The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.
8. If there were no deviations from the fuel requirements in condition 3.8(C) that apply to the engine (if any), a statement that there were no deviations from the fuel requirements during the reporting period.
9. If there were deviations from the fuel requirements in condition 3.8(C) that apply to the engine (if any), information on the number, duration, and cause of deviations, and the corrective action taken.

3.9 Specific emission source permit condition for the following three boilers:

- ES-1-854-8: Tobaccoville Boiler #5
- ES-2-854-8: Tobaccoville Boiler #6
- ES-3-854-8: Tobaccoville Boiler #7

Limitation on the use of No. 2 fuel oil [Sec. 3Q-0308(a)(1) and 0317(5)] - Except as provided in condition 3.10, to avoid the applicability of Sec. 3D-1111, 40 CFR Part 63, Subpart JJJJJJ (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources), the permittee shall not combust No. 2 fuel oil except during periodic testing not to exceed 48 hours per calendar year per boiler, gas supply emergencies, or periods of gas curtailment pursuant to a contract with the natural gas supplier. For each boiler, the permittee shall maintain records of the dates No. 2 fuel oil was combusted, the amount of No. 2 fuel oil combusted on each date, the purpose for combusting No. 2 fuel oil on each date, and the number of hours per calendar year that No. 2 fuel oil was combusted during periodic testing of the boiler.

3.10 National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources (Subpart JJJJJJ)

Specific emission source permit conditions for the following three boilers:

- ES-1-854-8: Tobaccoville Boiler #5
- ES-2-854-8: Tobaccoville Boiler #6
- ES-3-854-8: Tobaccoville Boiler #7

Upon start-up of a boiler with No. 2 fuel oil usage beyond the limitations in condition 3.9, for that boiler the permittee shall comply with all applicable requirements of 40 CFR Part 63, Subpart JJJJJJ, National Emissions Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources, including the applicable requirements of 40 CFR Part 63, General Provisions as specified in Table 8 to Subpart JJJJJJ. **<40 CFR 63, Subpart JJJJJJ> [Sec. 3D-1111]**

- A. **Notification requirement** - Within 30 days after becoming subject to 40 CFR Part 63 Subpart JJJJJJ, the permittee shall notify this Office of the change. The notification must identify:
1. The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice.
 2. The date upon which the fuel switch, physical change, or permit limit occurred.
- The permittee shall demonstrate compliance with 40 CFR Part 63 Subpart JJJJJJ within 180 days after becoming subject to this rule.
- B. **Tune-up requirements** - As required under 40 CFR 63.11214(b), the permittee shall conduct an initial boiler tune-up according to the requirements in 40 CFR 63.11223(b) no later than March 21, 2014 or 180 days after becoming subject to 40 CFR Part 63 Subpart JJJJJJ, whichever is later. Subsequent biennial tune-ups shall be conducted no more than 25 months after the previous tune-up. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.
- C. **Energy assessment requirement** - As required under 40 CFR 63.11214(c), the permittee shall conduct a one-time energy assessment no later than March 21, 2014 or 180 days after becoming subject to 40 CFR Part 63 Subpart JJJJJJ, whichever is later. The energy assessment must be performed by a qualified energy assessor according to the requirements in Table 2 to Subpart JJJJJJ of Part 63. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this section satisfies the energy assessment requirement.
- D. **Biennial compliance certification report** - The permittee shall prepare a biennial compliance report as required under 40 CFR 63.11225(b). The first report shall be prepared March 1, 2015 or by March 1 of the year following the initial tune-up required in condition 3.10(B), whichever is later. Subsequent reports shall be prepared March 1st of every other year. The report shall include the following information:
1. Company name and address.

2. Statement by a responsible official, with the official's name, title, phone number, e-mail address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart.
3. If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.

The permittee shall submit the report to this Office if requested by this Office, or no later than March 15 of the reporting year if any deviations from the applicable requirements occurred during the reporting period.

E. Recordkeeping requirements - The permittee shall maintain the following records:

1. Copies of all required notifications and reports submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status as required under 40 CFR 63.10(b)(2)(xiv).
2. Records of tune-ups required in condition 3.10(B) and 40 CFR 63.11214(b) identifying each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned as required under 40 CFR 63.11225(c)(2)(i).
3. A copy of the energy assessment required in condition 3.10(C) and 40 CFR 63.11214(c).
4. Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment as required under 40 CFR 63.11225(c)(4).
5. Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a) as required under 40 CFR 63.1225(c)(5), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

Records must be in a form suitable and readily available for expeditious review, according to 40 CFR 63.10(b)(1). As specified in 40 CFR 63.10(b)(1), each record must be kept for 5 years following the date of each recorded action. Records must be kept onsite for at least 2 years after the date of each recorded action and may be kept off site for the remaining 3 years.

F. Reporting requirements - The permittee shall submit the following reports:

1. Initial Notification according to the requirements of 40 CFR 63.9(b) and 40 CFR 63.11225(a)(2) no later than January 20, 2014 or within 120 days after becoming subject to 40 CFR Part 63 Subpart JJJJJ, whichever is later.

2. Notification of Compliance Status according to the requirements of 40 CFR 63.9(h) and 40 CFR 63.11225(a)(4) for the initial tune-up required in condition 3.10(B) and 40 CFR 63.11214(b) no later than July 19, 2014 or 120 days after the applicable compliance date, whichever is later. The notification must also be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in 40 CFR 63.13 and to this Office.
3. Notification of Compliance Status according to the requirements of 40 CFR 63.9(h) and 40 CFR 63.11225(a)(2) for the energy assessment required in condition 3.10(C) and 40 CFR 63.11214(c) no later than July 19, 2014 or 120 days after the applicable compliance date, whichever is later.
4. The Biennial Compliance report required in condition 3.10(D) and 40 CFR 63.11225(b) if any deviations from the applicable requirements occurred during the reporting period no later than March 15 of the reporting year.

3.11 Source Specific Emission Limits

Prevention of Significant Deterioration (PSD) - Best Available Control Technology (BACT)

A. BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]

Conveyor Systems: Part of ES-1-851-1, ES-10-851-1, and ES-21-851-1

1. The permittee shall limit the uncontrolled VOC emission rate from the following conveyor systems to no more than:
 - (a) 0.60 lb/hr for the new conveyor system serving ES-1-851-1;
 - (b) 0.20 lb/hr for the new conveyor system serving ES-10-851-1; and
 - (c) 0.05 lb/hr for the new conveyor system serving ES-21-851-1.
2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**

Compliance with the three limits specified in condition 3.11(A)(1) shall be demonstrated by maintaining a list of the new conveyors (including conveyor identification numbers) installed for the manufacture of tobacco products with ethanol-based flavoring in each of the three emissions sources described above.

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

3. **Reporting - [Sec. 3Q-0508(f)]**

No reporting is required for the specific purpose of demonstrating compliance with the the limits specified in condition 3.11(A)(1) because the limits are derived from throughputs that exceed the maximum throughputs achievable based on the number of new conveyors installed in each of the emissions sources.

B. BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]

Manufacture of tobacco products with ethanol-based flavoring using ethanol-based top dressing materials in the top dressing drums and downstream conveyors (Part of ES-15-851-1)

1. The permittee shall limit the VOC emissions as follows:
 - (a) The permittee shall limit the VOC emission rate from this emission source to no more than 0.54 lb VOC per ton of wet tobacco.
 - (b) The permittee shall control the VOC emissions by means of a thermal incinerator (CD-RTO-851-1) operated with at least 98% destruction efficiency. Compliance with the destruction efficiency requirement for the thermal incinerator shall be based upon the 3-hour block average of the incinerator combustion chamber temperature.

2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**

Compliance with the limit specified in condition 3.11(B)(1) shall be demonstrated by the permittee performing the applicable thermal incinerator operational, monitoring and recordkeeping activities as stated in conditions 3.6(B)(3) and (5).

3. **Reporting - [Sec. 3Q-0508(f)]**

The permittee shall submit a semiannual report to this Office as described in condition 3.6(B)(6).

C. **BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]**

Cigarette Production Floor Fugitives (ES-18-851-1, ES-19-851-1, F-16-851-1, and Part of ES-15-851-1)

1. The permittee shall limit the combined uncontrolled VOC emission rate from these emission sources to no more than 271.81 tons per monthly rolling 12-month total.

2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**

Compliance with the limit specified in condition 3.11(C)(1) shall be demonstrated by the following:

(a) The permittee shall maintain monthly records of all product throughputs necessary to calculate uncontrolled VOC emissions using the following formula:

$$\{ [\text{EtOH} \times (100 - \text{CE}) / 100] + [(X + Y + Z) \times \text{CP}] \} / (2000 \text{ lb/ton}) = \text{uncontrolled VOC emissions (tons / month)}$$

where:

EtOH = Total ethanol applied in the ES-15-851-1 top dressing drums (lbs / month);

CP = ES-19-851-1 cigarette production (million cigarettes / month);

CE = The capture efficiency (%) of the thermal incinerator (CD-RTO-851-1);

X = ES-18-851-1 filter making VOC emission factor (lbs VOC / million cigarettes);

Y = ES-19-851-1 cigarette making VOC emission factor (lbs VOC / million cigarettes); and

Z = F-16-851-1 packing equipment VOC emission factor (lbs VOC / million cigarettes).

(b) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.

(c) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(C)(1).

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

3. **Reporting - [Sec. 3Q-0508(f)]**

- (a) The permittee shall submit a semiannual report to this Office which includes the total uncontrolled VOC emissions (tons) emitted each month and the total VOC emissions (tons) emitted each 12-month period.
- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

D. **BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]**

Part of ES-15-851-1 Casing Drums: Propylene Glycol-based Casing Materials

- 1. The permittee shall limit the uncontrolled VOC emission rate from the casing drums while manufacturing tobacco products with propylene glycol-based casing material to:
 - (a) no more than 13.35 lb/hr, and
 - (b) 3.7 tons per monthly rolling 12-month total.

2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**

No monitoring, recordkeeping, or reporting is required to demonstrate compliance with the limit specified in condition 3.11(D)(1)(a) because the 13.35 lb/hr limit is greater than the potential uncontrolled VOC emissions of the applicable installed equipment.

Compliance with the limit specified in condition 3.11(D)(1)(b) shall be demonstrated by the following:

- (a) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$\left[A \times \left(TE_{\text{PGBCM}} / 2000 \text{ lb/ton} \right) \right] / 2000 \text{ lb/ton} = \text{uncontrolled VOC emissions (tons / month)}$$

where:

A = VOC emission factor (lbs VOC / ton dry tobacco) for manufacturing tobacco products with propylene glycol-based casing material in the ES-15-851-1 casing drums; and

TE_{PGBCM} = Tobacco for manufacturing tobacco products with propylene glycol-based casing material entering the ES-15-851-1 casing drums (lbs of dry tobacco / month).

- (b) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.
- (c) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(D)(1)(b).

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

3. Reporting - [Sec. 3Q-0508(f)]

- (a) The permittee shall submit a semiannual report to this Office which includes the total uncontrolled VOC emissions (tons) emitted each month and the total VOC emissions (tons) emitted each 12-month period.
- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

E. BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]

Part of ES-15-851-1 Flotation Chambers, Dryers, and Separators: Propylene Glycol-based Casing Materials

1. The permittee shall limit the uncontrolled VOC emission rate from the flotation chambers, dryers, and separators to
 - (a) no more than 219.2 lb/hr, and
 - (b) 97.5 tons per monthly rolling 12-month total.
2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**

No monitoring, recordkeeping, or reporting is required to demonstrate compliance with the limit specified in condition 3.11(E)(1)(a) because the 219.2 lb/hr limit is greater than the potential uncontrolled VOC emissions of the applicable installed equipment.

Compliance with the limit specified in condition 3.11(E)(1)(b) shall be demonstrated by the following:

- (a) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$\{ [(TE_{PGBCM} \times B) + (TE_{NPGBCM} \times C)] / 2000 \text{ lb/ton} \} / 2000 \text{ lb/ton} = \text{uncontrolled VOC emissions (tons / month)}$$

where:

B = VOC emission factor (lbs VOC / ton dry tobacco) for manufacturing tobacco products with propylene glycol-based casing material in the ES-15-851-1 steam flotation chambers, dryers, and separators;

C = VOC emission factor (lbs VOC / ton dry tobacco) for manufacturing tobacco products without propylene glycol-based casing material in the ES-15-851-1 steam flotation chambers, dryers, and separators;

TE_{PGBCM} = Tobacco for manufacturing tobacco products with propylene glycol-based casing material entering the ES-15-851-1 casing drums (lbs of dry tobacco / month); and

TE_{NPGBCM} = Tobacco for manufacturing tobacco products without propylene glycol-based casing material entering the ES-15-851-1 casing drums (lbs of dry tobacco / month).

- (b) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.
- (c) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(E)(1)(b).

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

3. Reporting - [Sec. 3Q-0508(f)]

- (a) The permittee shall submit a semiannual report to this Office which includes the total uncontrolled VOC emissions (tons) emitted each month and the total VOC emissions (tons) emitted each 12-month period.
- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

F. BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]

Part of ES-14-851-1 Casing Drums: Ethanol-based Casing Materials

- 1. The permittee shall limit the uncontrolled VOC emission rate from the casing drums while using ethanol-based casing materials to manufacture tobacco products with ethanol-based flavoring to no more than 1.2 lb VOC per ton wet tobacco.
- 2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**

Compliance with the limit specified in condition 3.11(F)(1) shall be demonstrated by the following:

- (a) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$EtOH / [TE_{EBF} / (2000 \text{ lb/ton})] = \text{uncontrolled VOC emission rate (lb VOC / ton wet tobacco)}$$

where:

EtOH = Total ethanol applied in ES-14-851-1 casing drums (lbs / month); and

TE_{EBF} = Tobacco for manufacturing tobacco products with ethanol-based flavoring entering the ES-14-851-1 casing drums (lbs of wet tobacco / month).

- (b) Each month the permittee shall calculate the monthly uncontrolled VOC emission rate.

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

3. **Reporting - [Sec. 3Q-0508(f)]**

- (a) The permittee shall submit a semiannual report to this Office which includes, for each month, the uncontrolled VOC emission rate (lbs VOC per ton wet tobacco) from the casing drums while manufacturing tobacco products with ethanol-based flavoring.
- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

G. **BACT for Volatile Organic Compounds (VOCs) [Sec. 3D-0530]**
F-13-851-1 Casing Preparation Area: Mix Tanks and Day Tanks

1. The permittee shall limit the uncontrolled VOC emission rate from the casing preparation area mix tanks and day tanks as described below:
- (a) **Mix Tanks** - Propylene Glycol casing preparation area: No more than 0.0054 tons VOC per monthly rolling 12-month total.
- (b) **Day Tanks** - Propylene Glycol casing preparation area: No more than 0.0054 tons VOC per monthly rolling 12-month total.
- (c) **Mix Tanks** - Ethanol casing preparation area: No more than 0.0049 tons VOC per monthly rolling 12-month total.
- (d) **Day Tanks** - Ethanol casing preparation area: No more than 0.0049 tons VOC per monthly rolling 12-month total.
2. **Monitoring/Recordkeeping - [Sec. 3Q-0508(f) and 3D-0605]**
- (a) **Mix Tanks, VOC** - Compliance with the limit specified in condition 3.11(G)(1)(a) shall be demonstrated by the following:
- (i) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:
- $$TE_{PGBCM} \times (0.0054 / D) = \text{uncontrolled VOC emissions (tons / month)}$$
- where:

TE_{PGBCM} = Actual tobacco throughput, for manufacturing tobacco products with propylene glycol-based casing material, entering the ES-15-851-1 Casing and Cutting process (lbs dry tobacco / month);

0.0054 = Maximum VOC emissions, for manufacturing tobacco products with propylene glycol-based casing material (tons VOC / 12 months);
and

D = Maximum tobacco throughput, for manufacturing tobacco products with propylene glycol-based casing material, entering the ES-15-851-1 Casing and Cutting process (lbs dry tobacco / 12 months).

- (ii) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.
- (iii) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(G)(1)(a).

(b) **Day Tanks, VOC** - Compliance with the limit specified in condition 3.11(G)(1)(b) shall be demonstrated by the following:

- (i) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$TE_{PGBCM} \times (0.0054 / D) = \text{uncontrolled VOC emissions (tons / month)}$$

where:

TE_{PGBCM} = Actual Tobacco throughput, for manufacturing tobacco products with propylene glycol-based casing material, entering the ES-15-851-1 Casing and Cutting process (lbs dry tobacco / month);

0.0054 = Maximum VOC emissions, for manufacturing tobacco products with propylene glycol-based casing material (tons VOC / 12 months);
and

D = Maximum tobacco throughput, for manufacturing tobacco products with propylene glycol-based casing material, entering the ES-15-851-1 Casing and Cutting process (lbs dry tobacco / 12 months).

- (ii) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.
- (iii) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(G)(1)(b).

(c) **Mix Tanks, VOC** - Compliance with the limit specified in condition 3.11(G)(1)(c) shall be demonstrated by the following:

- (i) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$EtOH \times (0.0049 / E) = \text{uncontrolled VOC emissions (tons / month)}$$

where:

EtOH = Actual Ethanol usage, for manufacturing tobacco products with ethanol-based flavoring, entering the ES-14-851-1 Casing and Drying process (lbs ethanol / month);

0.0049 = Maximum VOC emissions, for manufacturing tobacco products with ethanol-based flavoring (tons VOC / 12 months); and

E = Maximum ethanol usage, for manufacturing tobacco products with ethanol-based flavoring, entering the ES-14-851-1 Casing and Drying process (lbs ethanol / month).

- (ii) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.
- (iii) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(G)(1)(c).

(d) **Day Tanks, VOC** - Compliance with the limit specified in condition 3.11(G)(1)(d) shall be demonstrated by the following:

- (i) The permittee shall maintain monthly records of all product throughputs necessary to calculate VOC emissions using the following formula:

$$\text{EtOH} \times (0.0049 / E) = \text{uncontrolled VOC emissions (tons / month)}$$

where:

EtOH = Actual Ethanol usage, for manufacturing tobacco products with ethanol-based flavoring, entering the ES-14-851-1 Casing and Drying process (lbs ethanol / month);

0.0049 = Maximum VOC emissions, for manufacturing tobacco products with ethanol-based flavoring (tons VOC / 12 months); and

E = Maximum ethanol usage, for manufacturing tobacco products with ethanol-based flavoring, entering the ES-14-851-1 Casing and Drying process (lbs ethanol / month).

- (ii) Each month the permittee shall calculate the monthly uncontrolled VOC emissions total and the 12-month VOC emissions total.
- (iii) Each 12-month uncontrolled VOC emissions total shall not exceed the limit specified in condition 3.11(G)(1)(d).

Copies of these records shall be retained by the permittee for a period of five years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

3. **Reporting - [Sec. 3Q-0508(f)]**

- (a) The permittee shall submit a semiannual report to this Office which includes the total uncontrolled VOC emissions (tons) emitted each month and the total VOC emissions (tons) emitted each 12-month period as described in conditions 3.11(G)(2)(a)(ii), 3.11(G)(2)(b)(ii), 3.11(G)(2)(c)(ii), and 3.11(G)(2)(d)(ii).

- (b) The report shall be received by this Office by July 30th for the previous months of January through June, and by January 30th for the previous months of July through December.

SECTION 4 CONTROL OF TOXIC AIR POLLUTANTS - LOCALLY ENFORCEABLE ONLY

The entire facility is subject to Section 3D-1100 of the FCAQTC for the toxic air pollutants listed. This section is locally enforceable only. All the emission sources and their associated air pollution control device(s) are subject to the following specific terms, conditions, and limitations, including the monitoring recordkeeping, and reporting requirements to which those requirements apply.

4.1. Facility-Wide Toxic Air Pollutant Conditions

A. Permit Requirements for Toxic Air Pollutants and Control of Toxic Air Pollutants [Section 3D-1100]

1. **Other and future air toxic requirements [Sections 3D-1100 and 3Q-0700]** - Specification of a listed toxic air pollutant (TAP) in this permit does not excuse the permittee from complying with the requirements of Sections 3D-1100 and 3Q-0700 of the FCAQTC with regard to any other listed TAP emitted from the regulated facility, nor does this permit exempt the permittee from compliance with any future air toxic regulations promulgated pursuant to the requirements of the Clean Air Act.
2. **De minimis limits [Section 3Q-0700]** - Total facility-wide emissions of the following pollutants shall not exceed their respective de minimis emissions limits as shown in Sec. 3Q-0711 unless a modeling demonstration is first approved by this Office which shows that the emissions of the subject TAPs from the facility will not adversely affect human health. This demonstration shall be in accordance with the requirements set forth in Sections 3D-1100 and 3Q-0700 of the FCAQTC. This demonstration must be made with an up-to-date version of a U.S. EPA approved computer model or, upon approval by this Office, calculated using the results of a previous modeling analysis showing compliance with the acceptable ambient levels for the pollutants listed below.

Pollutant (CAS Number)	De minimis level
acetaldehyde (75-07-0)	6.8 lb/hr
acrolein (107-02-8)	0.02 lb/hr
benzo(a)pyrene (50-32-8)	2.2 lb/yr
1,3-butadiene (106-99-0)	11 lb/yr
carbon disulfide (75-15-0)	3.9 lb/day
chloroform (67-66-3)	290 lb/yr
cresol (1319-77-3)	0.56 lb/hr
p-dichlorobenzene (106-46-7)	16.8 lb/hr
1,4-dioxane (123-91-1)	12 lb/day
n-hexane (110-54-3)	23 lb/day
manganese and compounds	0.63 lb/day
mercury, vapor (7439-97-6)	0.013 lb/day

methyl chloroform (71-55-6)	250 lb/day
nickel metal (7440-02-0)	0.13 lb/day
methyl ethyl ketone (78-93-3)	78 lb/day and 22.4 lb/hr
phenol (108-95-2)	0.24 lb/hr
soluble chromate compounds, as chromium (VI) equivalent	0.013 lb/day
styrene (100-42-5)	2.7 lb/hr
toluene (108-88-3)	98 lb/day and 14.4 lb/hr
trichlorofluoromethane (75-69-4)	140 lb/hr
xylene (1330-20-7)	57 lb/day and 16.4 lb/hr

3. **Dispersion modeling emission limits [Section 3D-1100]** - Combined emissions of the following TAPs from all sources not exempted by Sec. 3Q-0702(a) or (b) at this facility shall not exceed the emission rates listed below. Dispersion modeling, approved by this Office, demonstrated that the permitted emissions of the TAPs listed in the table below from this facility impacted the surrounding ambient air at levels below the acceptable ambient levels (AALs) specified in Sec. 3D-1104 of the FCAQTC. The emission rates listed below shall be used as a basis for certifying that any future modifications or changes in the methods of operation will result in ambient impacts below these AALs. In no case shall actual emissions resulting from changes or modifications exceed any of the following emission rates without first applying for and receiving a permit:

Pollutant (CAS Number)	Maximum facility-wide emission rate	AERMOD EPA version	Date of model output file
acetic acid (64-19-7)	438.30 lb/hour	16216r	04/23/2018
ammonia (7664-41-7)	349.31 lb/hour	16216r	04/23/2018
arsenic and inorganic arsenic compounds	73.47 lb/year	16216r	04/23/2018
benzene (71-43-2)	9,119 lb/year	16216r	04/23/2018
beryllium (7440-41-7)	142.3 lb/year	16216r	04/23/2018
cadmium (7440-43-9)	203.5 lb/year	16216r	04/23/2018
ethylene oxide (75-21-8)	1,029 lb/year	16216r	04/23/2018
fluorides	3.80 lb/hour and 91.15 lb/day	16216r	04/23/2018
formaldehyde (50-00-0)	20.81 lb/hour	16216r	04/23/2018
hydrogen chloride (7647-01-1)	236.71 lb/hour	16216r	04/23/2018

4. **Monitoring/recordkeeping/reporting requirement [Sec. 3D-0605 and 1105]** -The permittee shall maintain updated records of production rates, throughputs, material usage, and other process operational information as is necessary to determine compliance with the emission rates specified in permit conditions 4.1(A)(2) and (3). At a minimum these records shall include data sufficient to calculate monthly averaged emission rates (in pounds per hour of emission source operation) for TAPs with 1-hour or 24-hour emission limits and yearly emission rates (in pounds per calendar year) for TAPs with annual emission limits.

Copies of these records shall be retained by the permittee for a period of two years after the date on which the record was made.

If requested by an agent of this Office, the permittee shall readily supply copies of these records at the time of inspection. Likewise, the permittee shall submit copies of the records upon request by this Office.

PART II

AIR QUALITY CONSTRUCTION PERMIT

The permittee is hereby authorized to construct air emission source(s) and associated air pollution control device(s) listed in Part II, Section 1 of this permit, in accordance with the associated air quality permit application(s) received, including all plans, specifications, previous applications, and other supporting data, all of which are filed with this Office and are incorporated in Part II of this Air Quality Permit.

SECTION 1

PERMITTED EMISSION SOURCE(S) AND ASSOCIATED AIR POLLUTION CONTROL DEVICE(S)

A. ES-TEMP Temporary Boiler Project:

Emission Source ID #	Emission Source Description	Emission Point ID No.
ES-TEMP	One or two temporary boilers with low-NOx burners fired with diesel fuel with a sulfur content not to exceed 0.05% sulfur or with natural gas and with a combined maximum firing rate not to exceed 98 mmBtu/hr. Uncontrolled.	EP-T1 (plus EP-T2, if applicable)

B. Make and Pack Modernization Project

Emission Source ID #	Emission Source Description	Control Devices
Building 851-1		
ES-18-851-1	Filter Making	Four Fabric Filters: CD-(113-116)-851-1
ES-19-851-1	Cigarette Making	Twenty-Five Fabric Filters: CD-(1-12)-851-1, CD-(21-32)-851-1, and CD-131-851-1
F-16-851-1	Packing Equipment	Uncontrolled

C. New G7 Cutting Project

Emission Source ID #	Emission Source Description	Control Devices
Building 851-1		
ES-24-851-1	Box Filling	Fabric Filter: CD-19-851-1

D. Small Batch Project

Emission Source ID #	Emission Source Description	Control Devices
Building 851-1		
ES-25-851-1	Small Batch Receiving and Blending	Wet Scrubber: CD-132-851-1
ES-26-851-1	Small Batch Casing and Drying	Wet Scrubber: CD-132-851-1 Fabric Filter: CD-133-851-1
ES-27-851-1	Small Batch Casing and Cutting	Wet Scrubbers: CD-(122, 126)-851-1 Fabric Filters: CD-(75, 76)-851-1 Thermal Incineraor: CD-RTO-851-1

SECTION 2 GENERAL CONDITIONS

This section describes terms and conditions applicable to the construction of the air emission source(s) and associated air pollution control device(s) listed in Part II Section 1. Unless otherwise specified herein all references to the "permit" in this section apply only to Part II of the permit.

A. General Provisions

1. This permit is nontransferable by the permittee. Future owners and operators must obtain a new air quality permit from this Office.
2. This issuance of this permit in no way absolves the permittee of liability for any potential civil penalties which may be assessed for violations of State law which have occurred prior to the issuance date of this permit.
3. A violation of any term or condition of Part II of this permit shall subject the permittee to enforcement pursuant to Forsyth County Air Quality Control Ordinance and Technical Code, including assessment of civil and/or criminal penalties.

B. Submissions

(REPORTS, TEST DATA, MONITORING DATA, NOTIFICATIONS, AND REQUESTS FOR RENEWAL)

Unless otherwise approved by this Office, two copies of all documents, reports, test data, monitoring data, notifications, request for renewal, and any other information required by this permit shall be submitted to this Office.

C. Part II Renewal Request

The permittee shall request renewal of the emission source(s) and associated air pollution control device(s) listed in Part II Section 1 at the same time as specified in Part I, condition 2.26, of this permit.

D. Annual Fee Payment

The permittee shall pay all fees in accordance with FCAQTC Section 3Q-0200 and in conjunction with Part I, condition 2.12, of this permit.

E. Reporting Requirements

Any of the following that would result in new or increased emissions from the emission source(s) listed in Part II Section 1 must be reported to the Director:

1. changes in the information submitted in the application;
2. changes that modify equipment or processes; or
3. changes in the quantity or quality of materials processed.

If appropriate, modifications to the permit may then be made by this Office to reflect any necessary changes in the permit conditions. In no case are any new or increased emissions allowed that will cause a violation of the emission limitations specified herein.

F. Termination, Modification, and Revocation of the Permit

The Director may terminate, modify, or revoke and reissue this permit if:

1. the information contained in the application or presented in support thereof is determined to be incorrect;
2. the conditions under which the permit or permit renewal was granted have changed;
3. violations of conditions contained in the permit have occurred; or
4. the Director finds that termination, modification, or revocation and reissuance of the permit is necessary to carry out the purpose of Forsyth County Air Quality Control Ordinance and Technical Code.

G. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, the permittee shall allow this Office, or an authorized representative to perform the following:

1. enter the permittee's premises where the permitted facility is located or emissions related activity is conducted, or where records are kept under the conditions of the permit;
2. have access to and copy, at reasonable times, any records that are required to be kept under the conditions of the permit;
3. inspect at reasonable times and using reasonable safety practices any source, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. sample or monitor substances or parameters, using reasonable safety practices, for the purpose of assuring compliance with the permit or applicable requirements at reasonable times.

SECTION 3 SPECIFIC LIMITATIONS AND CONDITIONS

The air emission source(s) and associated air pollution control device(s) listed in Part II, Section 1, Condition A are subject to the following specific terms, conditions, and limitations, including the monitoring, record keeping, and reporting requirements as specified herein:

- A. Any air emission sources or control devices authorized to construct in Part II, Section 1, Condition A must be constructed and maintained in accordance with the provisions contained herein. The permittee shall comply with applicable Forsyth County Air Quality Control Ordinance and Technical Code Regulations.
- B. The permittee shall operate the air emission sources and control devices listed in Part II, Section 1, Condition A in accordance with provisions contained in Part I of this permit.
- C. **ES-TEMP Temporary Boiler Project:**

In the event that the Tobaccoville facility's steam supply (received from the Building 854-8 boilers) is interrupted, one or two temporary boilers will be installed and operated at the Tobaccoville facility.

One or two temporary boilers with low-NOx burners fired with diesel fuel with a sulfur content not to exceed 0.05% sulfur or with natural gas and with a combined maximum firing rate not to exceed 98 mmBtu/hr. Uncontrolled.

- 1. **Notification requirements - The permittee shall submit to this Office notification as follows:**
 - (a) A written notification, hard-copy or electronic, providing the date that each temporary boiler was ordered and the date and time that each temporary boiler began operation. The notification shall also include information describing make, model, firing rate (mmBtu/hr), and installation location of the boiler(s). This notification shall be submitted so that it is received no later than three business days after the date temporary boiler operation commences.
 - (b) A written notification, hard-copy or electronic, providing the date that each temporary boiler was removed from the facility and the date and time that each boiler last ceased operation prior to removal. This notification shall be submitted so that it is received no later than five business days after the date each boiler is removed from the facility.
- [Sec. 3-0103(a)(5) and 3Q-0308(a)]**
- 2. **Temporary boiler criteria: 40 CFR 63, Subpart JJJJJJ (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources)** - Each boiler must at all times meet the definition of a temporary boiler as stated in section 63.11237 of 40 CFR, Part 63, Subpart JJJJJJ.

"Temporary boiler" is defined in section 63.11237 as:

Temporary boiler means any gaseous or liquid fuel boiler that is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A boiler is not a temporary boiler if any one of the following conditions exists:

- (a) The equipment is attached to a foundation.

- (b) The boiler or a replacement remains at a location within the facility and performs the same or similar function for more than 12 consecutive months, unless the regulatory agency approves an extension. An extension may be granted by the regulating agency upon petition by the owner or operator of a unit specifying the basis for such a request. Any temporary boiler that replaces a temporary boiler at a location within the facility and performs the same or similar function will be included in calculating the consecutive time period unless there is a gap in operation of 12 months or more.
- (c) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
- (d) The equipment is moved from one location to another within the facility but continues to perform the same or similar function and serve the same electricity, steam, and/or hot water system in an attempt to circumvent the residence time requirements of this definition.

[Sec. 3D-1111, and 40 CFR 63.11237]

3. **Temporary boiler criteria: 40 CFR 60, Subpart Dc** - Each boiler must at all times meet the definition of a temporary boiler as stated in section 60.41c of 40 CFR, Part 60, Subpart Dc.

"Temporary boiler" is defined in section 60.41c as:

Temporary boiler means a steam generating unit that combusts natural gas or distillate oil with a potential SO₂ emissions rate no greater than 26 ng/J (0.060 lb/MMBtu), and the unit is designed to, and is capable of, being carried or moved from one location to another by means of, for example, wheels, skids, carrying handles, dollies, trailers, or platforms. A steam generating unit is not a temporary boiler if any one of the following conditions exists:

- (a) The equipment is attached to a foundation.
- (b) The steam generating unit or a replacement remains at a location for more than 180 consecutive days. Any temporary boiler that replaces a temporary boiler at a location and performs the same or similar function will be included in calculating the consecutive time period.
- (c) The equipment is located at a seasonal facility and operates during the full annual operating period of the seasonal facility, remains at the facility for at least 2 years, and operates at that facility for at least 3 months each year.
- (d) The equipment is moved from one location to another in an attempt to circumvent the residence time requirements of this definition.

[Sec. 3D-0524 and 40 CFR 60.41c]

SECTION 4 SPECIFIC LIMITATIONS AND CONDITIONS

The air emission source(s) and associated air pollution control device(s) listed in Part II, Section 1, Condition B are subject to the following specific terms, conditions, and limitations, including the monitoring, record keeping, and reporting requirements as specified herein:

- A. Any air emission sources or control devices authorized to construct in Part II, Section 1, Condition B must be constructed and maintained in accordance with the provisions contained herein. The permittee shall comply with applicable Forsyth County Air Quality Control Ordinance and Technical Code Regulations.
- B. The permittee shall operate the air emission sources and control devices listed in Part II, Section 1, Condition B in accordance with provisions contained in Part I of this permit.
- C. ***Make and Pack Modernization Project (as described in the application)***

ES-18-851-1: Removing existing filter makers and installing new replacement filter makers.

ES-19-851-1 and F-16-851-1: Removing existing cigarette making and packing complexes and installing new replacement cigarette making and packing complexes.

ES-18-851-1: Filter Making

Four Fabric Filter Control Devices (Roll Filters)

<i>Control Device ID</i> CD-()-851-1	Emission Point ID EP-()-851-1
113	29 or 29B
114	32 or 32B
115	30 or 30B
116	31 or 31B

ES-19-851-1: Cigarette making

Twenty-Five Fabric Filter Control Devices (Baghouses)

<i>Control Device ID</i> CD-()-851-1	Emission Point ID EP-()-851-1
1	29
2	29
3	32
4	32
5	31
6	31
7	31
8	30
9	30
10	31
11	30
12	30

21	29
22	29
23	32
24	32
25	31
26	31
27	31
28	30
29	30
30	31
31	30
32	30
131	31

F-16-851-1: Packing Equipment

Fugitive Emissions, Uncontrolled

1. **30-Day Notification From Start-up** - The permittee shall notify this Office of the actual start-up date of the completed project within 30 days after such date. This notification is to enable this Office to plan an inspection to verify compliance with any applicable standards. **[Sec. 3-0103(a)(5) and 3Q-0308(a)]**

2. **Commencement of Construction** - If construction/modification of this equipment has not commenced by April 30, 2019 (18 months after the effective date of permit 00745-TV-37), or construction activities lapse for a period of 18 months after construction has commenced, the permittee shall reapply to this Office and obtain a permit to construct before commencing or resuming construction. **[Sec. 3Q-0308(a)]**

SECTION 5 SPECIFIC LIMITATIONS AND CONDITIONS

The air emission source(s) and associated air pollution control device(s) listed in Part II, Section 1, Condition C are subject to the following specific terms, conditions, and limitations, including the monitoring, record keeping, and reporting requirements as specified herein:

- A. Any air emission sources or control devices authorized to construct in Part II, Section 1, Condition C must be constructed and maintained in accordance with the provisions contained herein. The permittee shall comply with applicable Forsyth County Air Quality Control Ordinance and Technical Code Regulations.
- B. The permittee shall operate the air emission sources and control devices listed in Part II, Section 1, Condition C in accordance with provisions contained in Part I of this permit.
- C. ***New G7 Cutting Project (as described in the application)***

ES-24-851-1: Box Filling

Emission Point (EP-32-851-1 or EP-32A-851-1)

Fabric Filter control device (CD-19-851-1)

The purpose of the project is to allow processing of new G7 tobacco and new G7 infeed materials for use at other R. J. Reynolds Tobacco Company facilities.

1. **30-Day Notification From Start-up** - The permittee shall notify this Office of the actual start-up date of the completed project within 30 days after such date. This notification is to enable this Office to plan an inspection to verify compliance with any applicable standards. **[Sec. 3-0103(a)(5) and 3Q-0308(a)]**
2. **Commencement of Construction** - If construction/modification of this equipment has not commenced by January 1, 2020 (18 months after the effective date of permit 00745-TV-39), or construction activities lapse for a period of 18 months after construction has commenced, the permittee shall reapply to this Office and obtain a permit to construct before commencing or resuming construction. **[Sec. 3Q-0308(a)]**

SECTION 6 SPECIFIC LIMITATIONS AND CONDITIONS

The air emission source(s) and associated air pollution control device(s) listed in Part II, Section 1, Condition D are subject to the following specific terms, conditions, and limitations, including the monitoring, record keeping, and reporting requirements as specified herein:

- A. Any air emission sources or control devices authorized to construct in Part II, Section 1, Condition D must be constructed and maintained in accordance with the provisions contained herein. The permittee shall comply with applicable Forsyth County Air Quality Control Ordinance and Technical Code Regulations.
- B. The permittee shall operate the air emission sources and control devices listed in Part II, Section 1, Condition D in accordance with provisions contained in Part I of this permit.
- C. ***Small Batch Project (as described in the application)***

ES-25-851-1: Small Batch Receiving and Blending

Emission Point (EP-62-851-1)

Wet Scrubber control device (CD-132-851-1)

ES-26-851-1: Small Batch Casing and Drying

Emission Point (EP-62-851-1)

Wet Scrubber control device (CD-132-851-1)

Emission Point (EP-63-851-1)

Fabric Filter control device (CD-133-851-1)

Emission Point (EP-64-851-1), Uncontrolled

Emission Point (EP-65-851-1), Uncontrolled

ES-27-851-1: Small Batch Casing and Cutting

Emission Point (EP-20-851-1)

Wet Scrubber control device (CD-122-851-1)

Emission Point (EP-23-851-1)

Wet Scrubber control device (CD-126-851-1)

Emission Point (EP-(24/24A/24B/24C/24D)-851-1)

Fabric Filter control device (CD-75-851-1)

Fabric Filter control device (CD-76-851-1)

Emission Point (EP-60-851-1)

Thermal Incinerator control device (CD-RTO-851-1)

Emission Point (EP-61-851-1), Uncontrolled

The purpose of the project is to allow efficient processing of many tobacco blends in small batches.

1. **30-Day Notification From Start-up** - The permittee shall notify this Office of the actual start-up date of the completed project within 30 days after such date. This notification is to enable this Office to plan an inspection to verify compliance with any applicable standards. **[Sec. 3-0103(a)(5) and 3Q-0308(a)]**
2. **Commencement of Construction** - If construction/modification of this equipment has not commenced by January 1, 2020 (18 months after the effective date of permit 00745-TV-39), or construction activities lapse for a period of 18 months after construction has commenced, the permittee shall reapply to this Office and obtain a permit to construct before commencing or resuming construction. **[Sec. 3Q-0308(a)]**

Attachment 1
Insignificant Activities List

As provided in Sec. 3Q-0503(7) and (8), certain air emission sources are considered insignificant activities and are not listed on the permit. However, insignificant activities because of size or production rate [Sec. 3Q-0503(8)] are required to be listed in the initial permit application and with each request for renewal. The following list summarizes the insignificant activities provided in the Title V permit application. Insignificant activities are not exempted from any applicable requirement or from demonstrating compliance with any applicable requirement.

Insignificant because of size or production rate [Sec. 3Q-0503(8)]	
Emission Source ID.	Emission Source Description
ES-45-851-1	Propane Vaporizer (for Fume Incinerator and RTO)
F-1-851-1	Adhesive Bulk Storage Tank (TK 13033)
F-2-851-1	Adhesive Bulk Storage Tank (TK 13032)
F-3-851-1	Plasticizer Bulk Storage Tank (TK 13031)
F-4-851-1	Plasticizer Bulk Storage Tank (TK 13029)
F-5-851-1	Plasticizer Bulk Storage Tank (TK 13030)
F-6-851-1	Plasticizer Bulk Storage Tank (TK 13028)
F-7-851-1	Liquid Casing Material Storage Tank (TK 13027)
F-8-851-1	Liquid Casing Material Storage Tank (TK 13025)
F-9-851-1	Liquid Casing Material Storage Tank (TK 13023)
F-10-851-1	Liquid Casing Material Storage Tank (TK 13026)
F-11-851-1	Liquid Casing Material Storage Tank (TK 13024)
F-12-851-1	Liquid Casing Material Storage Tank (TK 13022)
F-14-851-1	Top-Dressing Input System
F-15-851-1	Adhesive Input System
F-17-851-1	Case Labeling
ES-854-8-5	No. 2 Fuel Oil Storage Tank A
ES-854-8-6	No. 2 Fuel Oil Storage Tank B
851-4-IS-FP	237 HP fire pump (2015)
00745-IS-E bottle	E-liquid bottle fill and packaging
851-1-IS-VTEST	VUSE Cigarette testing
854-8-IS7	10,000 gallon day tank
IS-5-851-1	Menthol shorts silo fill 851-1
N/A	CFA Operation (Building 851-1)
851-1-IS-VCART	VUSE Cartridge Making/Packing
851-1 IS-VMIX	E-liquid mixing
N/A	VUSE Packaging Assembly
ES-3-851-1	Recovered Tobacco Input (Regular)
ES-4-851-1	Recovered Tobacco Silo Discharge (Regular)
ES-9-851-1	Processed Tobacco Conveying

List continued on next page.

Insignificant because of size or production rate [Sec. 3Q-0503(8)]	
Emission Source ID.	Emission Source Description
F-19-851-1	10,000 gal Ethanol Storage tank
F-20-851-1	10,000 gal Ethanol Storage tank
F-23-851-1	Ingredient Mixing and Storage (IMS) Area
TK-28031	1,200 gallon Propylene Glycol Day Tank
851-5-IS1	OTT KDF E60 (training filter maker)
851-5-IS2	OTT Protos 80 (training cigarette maker)
851-5-IS3	OTT Protos 80 (training cigarette maker)
851-5-IS4	OTT Protos 90 (training cigarette maker)
851-5-IS5	OTT Packer X500 (training packer)
851-5-IS6	OTT Packer X2 (training packer)

Insignificant because of category [Sec. 3Q-0503(7)]	
Emission Source ID.	Emission Source Description
N/A	Various maintenance activities