DIV	NORTH CA SION OF A Application		Region: Mooresville Regional Office County: Catawba NC Facility ID: 1800206 Inspector's Name: Denise Hayes Date of Last Inspection: 02/08/2021					
Issue Date: xx					Compliance Code:	3 / Compliance - inspection		
	Facility	Data			Permit Applicability (this application only)			
Applicant (Facility's Nat Facility Address: Shurtape Technologies - H 1620 Highland Avenue, N Hickory, NC 28601 SIC: 2672 / Paper Coated NAICS: 322222 / Coated Facility Classification: B	ne): Shurtape Te lickory/Highland E And Laminated, and Laminated P efore: Title V A	SIP: 02Q .0516 NSPS: N/A NESHAP: N/A PSD: GHGs PAL I PSD Avoidance: N NC Toxics: N/A 112(r): N/A Other: N/A	Renewal V/A					
Fee Classification: Befor	<u>e: 11tte v After</u> Contact	Data			Ar	oplication Data		
Facility Contact Mark Hawes	Authorized Andy Bucklan	Technical Mark Hawes	Contact	Application Number: 1800206.21A Date Received: 07/14/2021 Application Type: Modification				
Director of EHS-C (828) 267-8428	Manufacturing	Manufacturing Manager Director of EHS			Application Sched	ule: TV-Significant		
P. O. Box 1530 Hickory, NC 28603-1530	P. O. Box 1530 Hickory, NC 2	(828) 322-2700 P. O. Box 1530 Hickory, NC 28603-1530 Hickory, NC 28603-1530 Hickory, NC 28603-15			P. O. Box 1530Existing Permit DataNC 28603-1530Hickory, NC 28603-1530Existing Permit Issue Date: 07/14/2Existing Permit Issue Date: 07/14/2Existing Permit Issue Date: 07/14/2		ting Permit Data umber: 02218/T37 sue Date: 07/14/2021 spiration Date: 12/31/2023	
Total Actual emissions	in TONS/YEAR	:			[
CY SO2	NOX	VOC	СО	PM10	Total HAP	Largest HAP		
2019 0.0600	10.66	338.55	8.95	3.59	219.73	215.70 [Toluene]		
2018 0.0700	11.26	334.99	9.46	3.97	227.36	222.53 [Toluene]		
2017 0.0700	10.93	283.12	9.19	3.45	192.85	188.52 [Toluene]		
2016 0.0600	10.72	258.77	9.00	3.37	180.24	176.21 [Toluene]		
2015 0.0600	10.83	281.77	9.11	4.51	206.53	202.51 [Toluene]		
Review Engineer: Rahu Review Engineer's Sign	Thaker	Date: October	Issue 02218 Permit Issu Permit Exp	Comments / Rec 3/T38 ne Date: xx biration Date: xx	ommendations:			

1. Purpose of Application

Shurtape Technologies – Hickory/Highland Plant ("Shurtape"), Hickory, Catawba County, North Carolina, submitted a permit application on July 14, 2021 to renew the current PAL (Actuals Plantwide Applicability Limitation) for GHGs (Greenhouse Gases) of 114,271 tons per year (TPY) CO_2e . The application was deemed a "significant modification" to its current Title V permit; thus, it will be processed in accordance with 15A NCAC 02Q .0516.

2. Facility Description

The facility makes both solvent and water-based pressure sensitive tapes. Adhesive resin is applied to a substrate, primarily paper, on coating lines using continuous rolls (web) of material. The coated web is dried via ovens. Additional coatings can be applied to the dried web if necessary. In the last step of production, the dried web is sent to finishing, where the material is sliced and rolled to customer specifications.

3. Application Chronology

7/14/21	DAQ received and deemed the application complete for processing.
7/22/21	DAQ discussed and hand-delivered the additional information request via a meeting at its office.
8/13/21	DAQ received the requested information.
8/19/21	DAQ discussed with the applicant, face-to-face, its September 13 th submittal and
	questioned the appropriateness of inclusion of comfort heating sources as part of the PAL.
	Requested clarifications and accurate information on its previous information request.
9/1/2021	DAQ received all requested information.

4. Statement of Compliance

Based on the compliance inspection of February 8, 2021, conducted by the Mooresville Regional Office, "this facility appeared to be in compliance with the applicable air quality regulations." In addition, the RO of the facility certified that the "facility is in compliance with all applicable requirements" through the completed Form E5 "Title V Compliance Certification".

5. Permit Modification/Changes

5.1 Renewal of Current PAL

The Permittee obtained an initial PAL of 114,271 tons/yr for GHGs for its Hickory/Highland facility on November 8, 2011 (02218T31), which is effective from January 1, 2012 to December 31, 2021¹. As stated above, the Permittee requested to renew this PAL on July 14, 2021. The DAQ will process the application in accordance with its SIP (State Implementation Plan)-approved PSD regulation in 15A NCAC 02D .0530 which incorporates the requirements in §51.166(w)(10) "Renewal of PAL" with one exception in 02D .0530(i). Each of the elements for PAL renewal are discussed below:

<u>§51.166(w)(10)(i)</u>

The reviewing authority shall follow the procedures specified in paragraph (w)(5) of this section in approving any request to renew a PAL for a major stationary source, and shall provide both the proposed PAL level and a written rationale for the proposed PAL level to the public for review and comment. During such public review, any person may propose a PAL level for the source for consideration by the reviewing authority.

¹ The DAQ had made a typographical error with respect to the expiration date of the initial PAL. Instead of the correct expiration date of December 31, 2021 for the initial GHGs PAL, the permit had included December 31, 2022 date. This error was corrected through the issuance of air quality permit 02218T37 (July 14, 2021).

Before finalizing the renewed GHGs PAL for the facility, the DAQ will propose the permit to the general public for seeking comments pursuant to \$51.166(w)(5) "public participation". Since the application is processed in accordance with the Title V procedures in 02Q .0500, the DAQ will ensure that the requirement in 02Q .0521 "public participation" is met as well.

§51.166(w)(10)(ii) Application Deadline

The plan shall require that a major stationary source owner or operator shall submit a timely application to the reviewing authority to request renewal of a PAL. A timely application is one that is submitted at least 6 months prior to, but not earlier than 18 months from, the date of permit expiration. This deadline for application submittal is to ensure that the permit will not expire before the permit is renewed. If the owner or operator of a major stationary source submits a complete application to renew the PAL within this time period, then the PAL shall continue to be effective until the revised permit with the renewed PAL is issued.

The Permittee submitted a PAL renewal application for GHGs on July 14, 2021, which does not meet the requirement to submit a timely application for renewal at least 6 months before its expiry. As stated above, the Permittee understood that the expiration date for the initial PAL was December 31, 2022 and not December 31, 2021. Because the DAQ had made an error with the initial PAL expiration date, which was not discovered and corrected until the current permit 02217T37 issuance on July 14, 2021. Thus, the applicant did not submit the application for GHGs PAL renewal in a timely fashion (i.e., at least 6 months prior to the December 31, 2021 expiration date). But, it should be emphasized that since the DAQ corrected the GHGs PAL expiration date on July 14, 2021, the applicant complied on the same day with the requirement to submit the renewal application in a timely manner (i.e., at least 6 months prior to the expiration deadline for this PAL), which was as expeditiously as possible, given the permit condition specified in the effective permit. In summary, the DAQ will attempt to complete the processing of this application, as expeditious as possible, so that the renewed PAL for GHGs can be issued prior to December 31, 2021.

§51.166(w)(10)(iii) Application Requirements

The application to renew a PAL permit shall contain the information required in paragraphs (w)(10)(iii)(a) through (d) of this section.

(a) The information required in paragraphs (w)(3)(i) through (iii) of this section.

§51.166(w)(3)(i)

A list of all emissions units at the source designated as small, significant or major based on their potential to emit. In addition, the owner or operator of the source shall indicate which, if any, Federal or State applicable requirements, emission limitations, or work practices apply to each unit.

The Table 5-1 below provides a complete list of emissions units at the facility, along with their classifications (small, significant, or major) based on the potential to emit, and the applicable requirements for each unit. It should be noted that there are no source-specific requirements (either state or federal) for GHGs emissions for any of these listed sources, except that all sources are currently subject to the GHGs PAL.

Source	Existing	Small,		Applicable Requirements										
	or	Significant,		40 CFR 60			40 CFR 63				15A NO	CAC 02D		
	New	or Major ²	Subpart Dc	Subpart RR	Subpart JJJJ	Subpart JJJJ	Subpart ZZZZ	Subpart DDDDD	.0503 (PM)	.0515 (PM)	.0516 (SO ₂)	.0521 (VE)	.0530 (VOCs, GHGs)	.1806 (Odors)
ES-33- BLR-B3	Existing	Small						Х	Х		Х	Х	Х	Х
ES-33-	Existing	Small						Х	Х		Х	Х	Х	Х

Table 5-1: Emissions Units, Types, and Applicable Requirements

 $^{^2}$ To determine "Small", "Significant", or "Major", a threshold of 75,000 TPY as CO₂e has been used in accordance with 40 CFR 51.166(b)(48)(iii). Any individual source with a PTE less than 75,000 TPY CO₂e has been listed as "Small". No individual source has a PTE equal to or greater than 75,000 TPY CO₂e.

Source	Existing	Small,		Applicable Requirements										
	or	Significant,		40 CFR 60			40 CFR 63				15A N	CAC 02D		
	New	or Major ²	Subpart Dc	Subpart RR	Subpart JJJJ	Subpart JJJJ	Subpart ZZZZ	Subpart DDDDD	.0503 (PM)	.0515 (PM)	.0516 (SO ₂)	.0521 (VE)	.0530 (VOCs, GHGs)	.1806 (Odors)
BLR-B4														
ES-33- BLR-B5	Existing	Small	Х					Х	Х		Х	Х	X	Х
ES-33- BLR- TEMP	Existing	Small	Х					X (if no longer "tempora ry"	Х		Х	Х	X	Х
ES- BLR-B1	Existing	Small	Х					Х	Х		Х	Х	Х	Х
ES-33-5- 01	Existing	Small		Х		Х				Х		Х	Х	Х
ES-33-6- 02	Existing	Small				Х				Х		Х	X	Х
ES-33- 07-02	Existing	Small				Х				Х		Х	X	Х
ES-33- 09-02	Existing	Small		Х		Х				Х		Х	Х	Х
ES-36- CL-1	Existing	Small				Х				Х		Х	X	Х
IES- R&D- Gen	Existing	Small			Х		X				Х	Х	Х	Х
IES- GEN1	Existing	Small			Х		Х				Х	Х	X	Х
IES- GEN2	Existing	Small			Х		Х				Х	Х	X	Х
CD-33- 56-RTO	Existing	Small				Х						Х	Х	Х
CD-36- RTO-1	Existing	Small				Х						Х	Х	Х
Heated Air Make-up Units and Heaters	Existing	Small											X	х

All of the above requirements are enforced upon by EPA, citizens as defined in Clean Air Act (CAA), and NCDAQ, except the odorous emissions control requirement (02D .1806), which is enforceable by the DAQ only. All of these requirements are adequately included in the current permit 02218T37.

\$51.166(w)(3)(ii)

Calculations of the baseline actual emissions (with supporting documentation). Baseline actual emissions are to include emissions associated not only with operation of the unit, but also emissions associated with startup, shutdown, and malfunction.

Tables 5-2 and 5-3 below provide the information on baseline actual emissions (BAEs) including the supporting basis. The BAE for each emission unit is determined based upon the actual emissions for 24 consecutive months from October 2017 through September 2019. All GHGs emissions are point source emissions; thus, no fugitive emissions are expected. The BAEs include emissions due to start-up, shut-down and malfunction. There are no units permanently shut-down after this selected baseline period which would otherwise require removal of the associated BAE for the unit from the PAL level. There is only one "new unit" which is coater 10 (ES-33-COAT10). This coater was constructed after the selected baseline period; hence as per the PAL provision, potential to emit (PTE) shall be added to the PAL level instead of the BAE.

As shown in Table 5-2, the BAEs for GHGs are 15,597 tons/yr CO_2e . The DAQ has verified the BAEs for the facility and found them to be accurate.

MONTH	GHGs from Natural	GHGs from	GHGs from	GHGs from	TOTAL	TOTAL 12-	TOTAL 24-Months
	Gas Burning	Propane	No. 2 Fuel Oil	Line 5 RTO	GHG	Months Rolling	Rolling GHGs
	(Tons CO2e / month)	Burning	Burning	(Tons	Emissions	GHGs	Emissions (Tons
		(Tons CO2e /	(Tons CO2e /	CO2e/month)	(Tons CO2e	Emissions (Tons	CO2e / 24 months)
		month)	month)		/month)	CO2e / 12	
						months)	
Oct-17	1,027.5	0.00	0.000	149.7	1,177.2	14,359	28,305
Nov-17	1,193.6	0.00	0.000	147.8	1,341.4	14,516	28,421
Dec-17	1,015.9	0.00	0.000	132.5	1,148.4	14,639	28,532
Jan-18	1,276.8	0.00	0.000	187.8	1,464.6	14,771	28,650
Feb-18	1,093.3	0.00	0.000	144.7	1,238.0	14,780	28,651
Mar-18	1,348.5	0.00	0.000	252.8	1,601.3	15,133	29,012
Apr-18	1,086.9	0.00	0.000	210.8	1,297.7	15,219	29,156
May-18	1,110.6	0.00	0.000	99.8	1,210.4	15,238	29,279
Jun-18	1,096.4	0.00	0.000	147.1	1,243.5	15,279	29,483
Jul-18	1,080.6	0.00	0.000	142.4	1,223.1	15,218	29,627
Aug-18	1,082.0	0.00	0.000	149.1	1,231.1	15,337	29,775
Sep-18	1,011.2	0.00	0.000	209.3	1,220.6	15,397	29,826
Oct-18	1,230.2	0.00	0.000	138.4	1,368.6	15,589	29,947
Nov-18	1,248.5	0.00	0.000	10.7	1,259.2	15,506	30,023
Dec-18	884.6	0.00	0.000	341.8	1,226.4	15,584	30,224
Jan-19	1,245.7	0.00	0.000	210.5	1,456.1	15,576	30,347
Feb-19	1,145.8	0.00	0.000	254.7	1,400.4	15,738	30,518
Mar-19	1,207.6	0.00	0.000	216.8	1,424.4	15,562	30,694
Apr-19	1,118.2	0.00	0.000	203.1	1,321.3	15,585	30,804
May-19	1,066.9	0.00	0.000	253.5	1,320.4	15,695	30,933
Jun-19	1,000.9	0.00	0.000	282.6	1,283.5	15,735	31,014
Jul-19	937.9	0.00	0.000	234.2	1,172.1	15,684	30,903
Aug-19	1,113.7	0.00	0.000	226.0	1,339.7	15,793	31,129
Sep-19	984.5	0.00	0.000	239.2	1,223.8	15,796	31,193
Baseline Actual Emissions							15 507
(tons/yr)							13,377

Table 5-2: BAEs

Table 5-3: BAEs Supporting Basis

	Monthly	Readings	Piedmont N The	atural Gas Invoices via eir Flow Meters		Monthly Readings	SAP (inventory data)	
Month	Plant 33 Generator Usage (hours/month)	R&D Generator Usage (hours/month)	Natural Gas Usage Plant 33 (ft ³)	Natural Gas Usage Plant 36 (ft ³)	Natural Gas for R&D (ft ³)	No. 2 Fuel Oil Plant 36 (gallons)	Propane Usage Plant 33 (gallons)	VOC to Plant 33 RTO (lb/month) (applied)
Oct-17	0.0	1.9	13,978,350	3,056,796	777	0	0	96,387
Nov-17	0.0	2.0	16,802,718	2,967,961	18,350	0	0	95,181
Dec-17	0.0	1.0	13,860,777	2,912,816	69,029	0	0	85,337
Jan-18	0.2	2.0	17,446,893	3,471,650	250,000	0	0	120,940
Feb-18	0.0	1.9	15,518,252	2,469,126	138,447	0	0	93,182
Mar-18	0.0	1.4	19,286,796	2,977,282	93,398	0	0	162,819
Apr-18	0.0	1.6	15,456,505	2,524,563	39,612	0	0	135,729
May-18	0.0	1.7	15,865,922	2,543,883	3,495	0	0	64,283

	Monthly	Readings	Piedmont N The	atural Gas In ar Flow Meter	voices via rs	Monthly Readings	SAP (inventory data)	
Month	Plant 33 Generator Usage (hours/month)	R&D Generator Usage (hours/month)	Natural Gas Usage Plant 33 (ft ³)	Natural Gas Usage Plant 36 (ft ³)	Natural Gas for R&D (ft ³)	No. 2 Fuel Oil Plant 36 (gallons)	Propane Usage Plant 33 (gallons)	VOC to Plant 33 RTO (lb/month) (applied)
Jun-18	0.0	0.4	15,779,903	2,397,087	388	0	0	94,749
Jul-18	0.0	2.5	15,477,087	2,438,932	485	0	0	91,738
Aug-18	0.0	1.6	15,266,214	2,672,427	485	0	0	96,022
Sep-18	0.0	1.4	14,271,748	2,493,495	388	0	0	134,808
Oct-18	0.2	1.5	17,672,427	2,723,204	485	0	0	89,123
Nov-18	0.0	1.8	17,640,971	2,996,408	62,039	0	0	6,899
Dec-18	0.0	1.3	11,462,136	2,978,738	225,631	0	0	220,113
Jan-19	0.0	1.7	17,114,757	3,316,408	221,748	0	0	135,536
Feb-19	0.0	2.0	16,198,252	2,659,612	138,447	0	0	164,002
Mar-19	0.4	1.3	16,961,942	2,797,282	262,136	0	0	139,631
Apr-19	1.8	1.5	15,733,301	2,659,806	145,437	0	0	130,807
May-19	1.4	2.1	14,941,553	2,735,146	12,621	0	0	163,247
Jun-19	0.7	1.6	13,922,427	2,671,262	680	0	0	181,988
Jul-19	0.0	1.4	12,881,650	2,667,184	485	0	0	150,832
Aug-19	0.0	1.6	15,540,194	2,923,786	680	0	0	145,521
Sep-19	0.0	1.7	13,688,252	2,633,786	680	0	0	154,080

§51.166(w)(3)(iii)

The calculation procedures that the major stationary source owner or operator proposes to use to convert the monitoring system data to monthly emissions and annual emissions based on a 12-month rolling total for each month as required by paragraph (w)(13)(i) of this section.

The applicant has proposed the same monitoring approach as included in the current PAL for GHGs, which is the use of emissions factors for estimating emissions for various emissions units. Refer to Section 2.4.i. and j. of the current permit.

(b) A proposed PAL level.

The applicant initially proposed to renew the PAL at the current PAL level of 114,271 tons as CO₂e per rolling 12 months. However, the PTE for GHGs is now estimated to be 106,205 tons CO₂e per year (Refer to paragraph (c) below). In brief, the PTE has reduced below the current PAL level. Since the PAL cannot be renewed higher than the facility's PTE, the applicant has amended its initial proposal and requested to renew the GHGs PAL at 106,205 tons CO₂e per rolling 12-month period.

(c) The sum of the potential to emit of all emissions units under the PAL (with supporting documentation).

As shown in the Table 5-4 below, facility's current potential to emit (PTE) is 106,275 TPY as CO_2e , which is a sum of the PTE for each of the emission units emitting greenhouse gases. The applicant has provided the PTE emissions calculations for each emissions unit and the DAQ has found them correctly determined.

Source	Heat Input Rate	GHGs PTE
	(Million Btu/Hour)	(Tons/Yr CO ₂ e)
Line 5	12.5	
Line 5 RTO	11.5	
Line 6	24.0	
Line 7	24.5	
Line 9	12.5	
Boiler 3	7.1	
Boiler 4	8.4	
Boiler 5	25.1	
Boiler 1	10.5	
P36 RTO	2.4	
P36Line1	17.2	
#5 Air Makeup Unit	7.7	
#6/7 Air Makeup Unit	2.0	
#8/9 Air Makeup Unit	7.7	
Mixing Air Makeup Unit	2.0	
Plant 36/27 Heaters	8.1	
Coater 10 Building Heater	0.9	
Total Fuel Burning, million Btu/Hour	184.18	
Subtotal, Natural Gas Usage, million ft ³ /year	1,566.4	
Emergency Generators (Assuming 500 hours/year operation) Natural Gas Usage, million ft ³ /yr	1.59	
Potential Natural Gas Usage, million ft ³ /year	1,568.0	
Potential GHGs Emissions (Natural Gas		94,574
Usage), tons/yr CO_2e		11.001
Potential GHGs Emissions (Toluene		11,631
from Original Application) tons/vr COre		
Total Potential GHGs Emissions, tons/yr CO ₂ e		106,205

Table 5-4: PTE Estimate

(d) Any other information the owner or operator wishes the reviewing authority to consider in determining the appropriate level for renewing the PAL.

Refer to the next section.

§51.166(w)(10)(iv) PAL Adjustment

In determining whether and how to adjust the PAL, the reviewing authority shall consider the options outlined in paragraphs (w)(10)(iv) (a) and (b) of this section. However, in no case may any such adjustment fail to comply with paragraph (w)(10)(iv)(c) of this section.

(a) If the emissions level calculated in accordance with paragraph (w)(6) of this section is equal to or greater than 80 percent of the PAL level, the reviewing authority may renew the PAL at the same level without considering the factors set forth in paragraph (w)(10)(iv)(b) of this section; or

(b) The reviewing authority may set the PAL at a level that it determines to be more representative of the source's baseline actual emissions, or that it determines to be appropriate considering air quality needs, advances in control technology, anticipated economic growth in the area, desire to reward or encourage the source's voluntary emissions reductions, or other factors as specifically identified by the reviewing authority in its written rationale.

(c) Notwithstanding paragraphs (w)(10)(iv)(a) and (b) of this section:

(1) If the potential to emit of the major stationary source is less than the PAL, the reviewing authority shall adjust the PAL to a level no greater than the potential to emit of the source; and

(2) The reviewing authority shall not approve a renewed PAL level higher than the current PAL, unless the major stationary source has complied with the provisions of paragraph (w)(11) of this section (increasing a PAL).

It should be noted that NC's SIP-approved PSD provision in 02D .0530(i) includes the following requirement:

(i) For the purposes of this Rule, 40 CFR 51.166(w)(10)(iv)(a) shall read: "If the emissions level calculated in accordance with Paragraph (w)(6) of this Section is equal to or greater than 80 percent of the PAL level, the Director shall renew the PAL at the same level." 40 CFR 51.166(w)(10)(iv)(b) is not incorporated by reference.

Because the provision \$51.166(w)(10)(iv)(b) is not incorporated into NC's PSD regulation and the provision in \$51.166(w)(10)(iv)(a) is replaced with 02D .0530(i), the facility request shall conform to the requirements both in 02D .0530(i) and \$51.166(w)(10)(iv)(c) for renewing the current PAL for GHGs.

The emission level at the time of renewal is determined by adding the significance level of GHGs to its BAEs. That is 15,597 TPY CO₂e + 75,000 CO₂e = 90,597 TPY CO₂e, which is 79.3% of the current PAL (114,271 TPY CO₂e). This level of emissions (90,597 TPY CO₂e) do not meet the criteria in 02D.0530(i) (i.e., at least 80% of the current PAL). Therefore, the DAQ cannot approve / renew the PAL at the current level of 114,271 TPY CO₂e without the rationale basis for a higher PAL. Based upon the DAQ request, the applicant has provided justifications for a higher PAL, which are discussed below:

First, the Permittee argues that the BAEs of 15,597 TPY CO_2e (Table 5-2 above) do not represent the facility's true baseline and they do not capture the underutilized capacity the facility is capable of producing and emitting at a higher level.

The PAL guidance³ on page 7 discussed situations where a facility may manufacture multiple products including those with lower emissions and those with higher emissions. Relevant passage is copied below:

"Similarly, your source might be designed to manufacture several different products, and your permit might allow you to switch from one product to another. During the initial term of the PAL, you might produce a product associated with low emissions, resulting in source-wide emissions that were consistently less than 80 percent of the PAL level. However, you might be planning to produce a product that would cause the source to emit at a higher level following PAL renewal. This is another example of a circumstance in which the reviewing authority could reasonably determine that a higher level was more representative of your source's baseline actual emissions."

³ "Guidance on Plantwide Applicability Limitation Provisions Under New Source Review Regulations", Anne L. Austin, Principal Deputy Assistant Administrator, EPA, August 4, 2020.

That guidance clarifies that in such cases, the emissions during the initial term of a PAL may not be representative of the facility' true baseline. It specifies that the reviewing authority may consider this, and other, relevant source-specific factors to determine that a higher level would be more representative of facility's baseline actual emissions.

The DAQ recently renewed the referenced facility's VOC PAL. During that renewal process, the state agency recognized the facility's actual emissions were not reflective of its BAEs based upon the relevant source-specific factors outlined in the above EPA memorandum. During that renewal, the Permittee had demonstrated that Coating Lines 5 and 8, which result in the majority of the VOC emissions at the facility, have the ability to operate 8760 hours per year to manufacture a wide range of products with varying VOC content. Factors such as equipment availability, workforce availability, raw material availability, and market demand, impact which coating lines, and thus, which coating technology (ex. solvent-based technology, water-based technology, hot melt technology) is utilized at any given time. The Permittee had demonstrated that both Coating Lines 5 and 8 could have VOC usage and emissions significantly above the actual values for the contemporaneous period (calendar years 2018 and 2019 were used as a baseline period for the VOC PAL renewal). The agency had concurred with the assessment, including the actual utilization of coatings, during the contemporaneous period, which, if used in greater quantities due to market demands or resource availability, would increase the facility's actual emissions.

The above 24-months baseline period for the VOC PAL renewal is approximately the same period used for this GHGs PAL renewal (October 2017 through September 2019). Since the DAQ previously concurred with the facility's assessment of these coatings and the reflective increase to actual emissions associated with greater utilization, the Permittee evaluated these same coatings with the increased utilization for estimating actual emissions from their combustion when controlled by the RTO.

Table 5-5 below displays the products manufactured for 2018 and 2019 on Coating Line 5 and the solvent application rates. As said earlier, any of the products included in this Table could be produced in significantly greater quantities than shown. Any of the products run on Coating Line 5 can be exhausted to the RTO. Exhausting to the RTO increases the actual emissions due to the oxidation of organic compounds to CO_2 . The Permittee has previously demonstrated, using a mass balance method, that with toluene as the solvent, approximately 3.35 lbs of CO_2 are produced for each pound of toluene destroyed by the RTO.

Tape Name	2018 Actual	2019 Actual	Solvent	Solvent
	Coater 5	Coater 5	Application	Application
	Production	Production	Rate	Rate
	(yd ²)	(yd ²)	(oz/yd ²)	(lbs/hr)
Tape 1	336,594	284,245	1.80	782
Tape 2	219,706	293,592	2.12	729
Tape 3	396,061	235,390	3.27	727
Tape 4	25,282	20,966	2.16	717
Tape 5	238,407	288,669	3.38	715
Tape 6	2,765,886	368,652	1.72	697
Tape 7	760,478	774,389	2.69	681
Tape 8	2,002,661	2,044,218	1.35	628
Tape 9	448,025	478,561	1.53	618
Tape 10	38,146	-	1.53	615
Tape 11	1,913,857	355,299	1.47	591
Tape 12	320,625	286,727	2.40	580
Tape 13	476,397	504,637	1.10	512
Tape 14	458,039	547,401	1.15	511
Tape 15	5,504,126	5,949,303	2.55	511
Tape 16	149,363	188,595	1.67	488
Tape 17	176,473	248,749	1.50	482
Tape 18	85,905	133,364	1.63	444
Tape 19	137,520	223,053	1.53	386

 Table 5-5: Coating Line 5 Actual Production Summary for 2018-2019

Tape Name	2018 Actual Coater 5 Production (yd ²)	2019 Actual Coater 5 Production (yd ²)	Solvent Application Rate (oz/yd ²)	Solvent Application Rate (lbs/hr)
Tape 20	33,872	1,553,418	3.61	372
Tape 21	144,213	-	1.78	352
Tape 22	2,675,267	3,078,417	1.73	343
Tape 23	102,777	107,920	1.32	334
Tape 24	588,970	512,658	0.45	205
Tape 25	40,805	5,761	0.65	181
Tape 26	254,103	243,733	0.65	181
Tape 27	90,917	72,032	1.43	112
Tape 28	29,461	18,434	1.43	112
Tape 29	-	5,437	1.17	92

Table 5-6 below shows the calculated additional GHGs emissions that would result due to manufacturing of any of the top 15 products (i.e., Tape 1 through Tape 15 in Table 5-5 above) on Coating Line 5 for 8760 hours and exhausting to the RTO. The additional GHGs emissions generated from manufacturing these top 15 products for 8760 hours per year range from 4,339 TPY to 8,663 TPY as CO₂e, above the levels in the baseline calculations. Thus, the revised baseline is estimated to be between 95,262 and 98,948 TPY as CO₂e, which is also charted in Figure 5-1 below. Thus, in accordance with the said EPA guidance, a more representative BAEs, reflective of realistic facility emissions from actual coatings utilized during the contemporaneous period, is above 80% of the current GHG PAL Level. More specifically, it ranges between 83.4% to 86.6% of the current PAL.

	Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY)	Significance Level (TPY)	Revised GHGs Baseline (TPY)	Proximity To Current PAL
Topo 1	10/01/2017 - 09/30/2018	15,397	8,663	24,060	23,941	75,000	98,941	86.6%
Tape 1	10/01/2018 - 09/30/2019	15,796	8,025	23,821				
	Baseline Period	Actual GHGs Emissions	Additional GHGs Emissions Due to	Actual Emissions After Accounting Emissions	Average	Significance	Revised GHGs	Proximity
	for GHGs PAL Renewal	(TPY)	Increased Product Demand (TPY)	Due to Increased Product Demand (TPY)	(TPY)	Level (TPV)	Baseline (TPV)	To Current PAL
<i>T</i> 0	10/01/2017 - 09/30/2018	15,397	7,942	23,339	23,220	75,000	98,220	86.0%
Tape 2	10/01/2018 - 09/30/2019	15,796	7,304	23,100				
	Baseline Period	Actual GHGs Emissions	Additional GHGs Emissions Due to	Actual Emissions After Accounting Emissions	Average	Significance	Revised GHGs	Proximity
	for GHGs PAL Renewal	(TPY)	Increased Product Demand (TPY)	Due to Increased Product Demand (TPY)	(TPY)	Level (TPV)	Baseline (TPV)	To Current PAL
Topo 3	10/01/2017 - 09/30/2018	15,397	7,915	23,312	23,193	75,000	98,193	85.9%
Tape 5	10/01/2018 - 09/30/2019	15,796	7,277	23,073				
	Baseline Period	Actual GHGs Emissions	Additional GHGs Emissions Due to	Actual Emissions After Accounting Emissions	Average	Significance	Revised GHGs	Proximity
	for GHGs PAL Renewal	(TPY)	Increased Product Demand (TPY) RTO	Due to Increased Product Demand (TPY)	(TPY)	Level (TPY)	Baseline (TPY)	To Current PAL
Tone 4	10/01/2017 - 09/30/2018	15,397	7,779	23,176	23,057	75,000	98,057	85.8%
Tupe 4	10/01/2018 - 09/30/2019	15,796	7,141	22,937				
	Baseline Period	Actual GHGs Emissions	Additional GHGs Emissions Due to	Actual Emissions After Accounting Emissions	Average	Significance	Revised GHGs	Proximity
	for GHGs PAL Renewal	(TPY)	Increased Product Demand (TPY) RTO	Due to Increased Product Demand (TPY)	(TPY)	Level (TPY)	Baseline (TPY)	To Current PAL
	10/01/2017 - 09/30/2018	15,397	7,752	23,149	23,029	75,000	98,029	85.8%
Tape 5	10/01/2018 - 09/30/2019	15,796	/,114	22,910				
	Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPV)	Additional GHGs Emissions Due to Increased Product Demand (TPV)	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPV)	Average (TPV)	Significance	Revised GHGs Baseline	Proximity To Current
	ior Giros FAL Reic war	(11)	RTO	Dat to increased Froduct Demand (IT F)	(111)	(TPY)	(TPY)	PAL
Tape 6	10/01/2017 - 09/30/2018	15,397	7,507	22,904	22,784	75,000	97,784	85.6%
	10/01/2018 - 09/30/2019	13,796	0,809	22,003				
	Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPV)	Additional GHGs Emissions Due to Increased Product Demand (TPV)	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPV)	Average (TPV)	Significance	Revised GHGs Baseline	Proximity To Current
		()	RTO		()	(TPY)	(TPY)	PAL
Tape 7	10/01/2017 - 09/30/2018	15,397	7,289	22,686	22,567	75,000	97,567	85.4%
	10/01/2018 - 09/30/2019	15,790	0,052	22,447				
	Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY)	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY)	Significance Level	Revised GHGs Baseline	Proximity To Current
	10/01/2017 00/20/2018	15 207	RTO	21.075	21.946	(TPY) 75.000	(TPY)	PAL
Tape 8	10/01/2017 - 09/30/2018	15,397	5,931	21,965	21,846	/5,000	96,846	84.8%
	Develine Devied	A stud CHCs Emissions	Additional OHC- Emissions Due to	4 - 4 1 E AA A	A	C!:#	Denie d CHC-	Description
	Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY)	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY)	Significance Level	Revised GHGs Baseline	Proximity To Current
	Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6432	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY)	Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96 710	Proximity To Current PAL
Tape 9	Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019	Actual GHGs Emissions (TPY) 15,397 15,796	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590	Average (TPY) 21,710	Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710	Proximity To Current PAL 84.6%
Tape 9	Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions	Average (TPY) 21,710	Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs	Proximity To Current PAL 84.6%
Tape 9	Baseline Period for GHGs PAL Rene wal 1001/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY)	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY) 21,710 Average (TPY)	Significance Level (TPY) 75,000 Significance Level	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline	Proximity To Current PAL 84.6% Proximity To Current
Tape 9	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789	Average (TPY) 21,710 Average (TPY) 21,669	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6%
Tape 9 Tape 10	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019	Actual GHGs Emissions (TPY) 15.397 15.796 Actual GHGs Emissions (TPY) 15.397 15.796	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550	Average (TPY) 21,710 Average (TPY) 21,669	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6%
Tape 9 Tape 10	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6;432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6;391 5,754 Additional GHGs Emissions Due to	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions	Average (TPY) 21,710 Average (TPY) 21,669 Average	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity
Tape 9 Tape 10	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Rene wal	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6;432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6;391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY)	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY)	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY)	Proximity To Curre nt PAL 84.6% Proximity To Curre nt PAL 84.6% Proximity To Curre nt PAL
Tape 9 Tape 10 Tape 11	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6:432 5.795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6:391 5.754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6:065	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3%
Tape 9 Tape 10 Tape 11	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,397	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,065 5,427	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343	Significance Level (TPY) 75.000 Significance Level (TPY) 75.000 Significance Level (TPY) 75.000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3%
Tape 9 Tape 10 Tape 11	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGS PAL Renewal	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,065 5,427 Additional GHGs Emissions Due to S,427	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increase Device United Emissions	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity RAL 84.3%
Tape 9 Tape 10 Tape 11	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average (TPY)	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343 Revised GHGs Baseline (TPY)	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3%
Tape 9 Tape 10 Tape 11	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019	Actual GHGs Emissions (TPY) 15.397 15.796 Actual GHGs Emissions (TPY) 15.397 15.796 Actual GHGs Emissions (TPY) 15.397 15.796 Actual GHGs Emissions (TPY) 15.397	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,065 5,427 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,915 5,915 5,915	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average (TPY) 21,343	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343 Revised GHGs Baseline (TPY) 96,193	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3%
Tape 9 Tape 10 Tape 11 Tape 12	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,747 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,759 5,915 5,278	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,312 21,312	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average (TPY) 21,343	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343 Revised GHGs Baseline (TPY) 96,193	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3% Proximity To Current PAL 84.2%
Tape 9 Tape 10 Tape 11 Tape 12	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2019 Baseline Period for CHGS PAL Renewal 10/01/2018 - 09/30/2019 Baseline Period 10/01/2018 - 09/30/2019	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,397 15,796 Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,065 5,427 Additional GHGs Emissions Due to Increased Product Demand (TPY) 5,915 5,278 Additional GHGs Emissions Due to Increased Product Demand (TPY) 5,915 5,278	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,312 21,074 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY)	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average (TPY) 21,193 Average (TPY)	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,343 Revised GHGs Baseline (TPY)	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3% Proximity To Current PAL 84.2%
Tape 9 Tape 10 Tape 11 Tape 12	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Renewal 10/01/2018 - 09/30/2019 Baseline Period 10/01/2018 - 09/30/2019 Baseline Period 10/01/2018 - 09/30/2019	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY)	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) 5,915 5,278 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,778 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,778 Additional GHGs Emissions Due to Increased Product Demand (TPY) 8,778	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,550 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,312 21,074 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,312 21,074	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average (TPY) 21,193 Average (TPY)	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,193 Revised GHGs Baseline (TPY)	Proximity To Current PAL 84.6% Proximity To Current PAL 84.3% Proximity To Current PAL 84.2%
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Tape 9 Tape 10 Tape 11 Tape 11 Tape 12 Tape 13	Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2017 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019 Baseline Period for GHGs PAL Rene wal 10/01/2017 - 09/30/2018 10/01/2018 - 09/30/2019	Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796 Actual GHGs Emissions (TPY) 15,397 15,796	Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,432 5,795 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,391 5,754 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 6,065 5,427 Additional GHGs Emissions Due to Increased Product Demand (TPY) 5,915 5,278 Additional GHGs Emissions Due to Increased Product Demand (TPY) RTO 4,990 4,353	Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,829 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,789 21,590 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,462 21,223 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,312 21,074 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 21,312 21,074 Actual Emissions After Accounting Emissions Due to Increased Product Demand (TPY) 20,388 20,149	Average (TPY) 21,710 Average (TPY) 21,669 Average (TPY) 21,343 Average (TPY) 21,193 Average (TPY) 20,268	Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000 Significance Level (TPY) 75,000	Revised GHGs Baseline (TPY) 96,710 Revised GHGs Baseline (TPY) 96,669 Revised GHGs Baseline (TPY) 96,193 Revised GHGs Baseline (TPY) 96,193	Proximity To Current PAL 84.6% Proximity To Current PAL 84.6% Proximity To Current PAL 84.3% Proximity To Current PAL 84.2%
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Table 5-6: Revised GHGs Baseline Using Top 15 Products Produced in Coating Line 5

Revised GHGs Baseline 100,000 Tons CO2e per year 99,000 98,000 97,000 96,000 95,000 94,000 93,000 92,000 91,000 15 6 00 14 13 12 Π 10 TAPE 1 TAPE : **TAPE** TAPE TAPE TAPE BAE (TPY)

Figure 5-1: Revised GHGs Baseline Using Top 15 Products Produced in Coating Line 5

Finally, the Permittee has specified other relevant source-specific factors below in Table 5-7 that could also result in a higher and more representative BAEs. Examples of these include:

Factor	Impact
Increased utilization of any Plant 33	Fuel burning to heat the oven(s) would increase. Also, please
Coating Line (Lines 5, 6, 7, 8, or 9)	note that increased utilization of Lines 5, 6, or 8, would result in a
	similar increase in utilization of Lines 7 and 9, which prepare
	substrates for use on the other lines.
Increased utilization of Coating Lines 5 or 8	Fuel burning in the boilers to make steam for the solvent-recovery
emitting to the solvent-recovery system	system
Increased utilization of Coating Line 5	Fuel burning to heat the RTO would increase
while emitting to the RTO	
Increased utilization of Coating Line 1 at	Fuel burning to heat the ovens would increase.
Plant 36	Additionally, fuel burning in Boiler 1 would increase to generate
	additional steam. Likewise, increased utilization of Coating Line
	1 would likely result in increased utilization of Lines 7 or 9,
	which prepare substrates for use on Coating Line 1.
Resin Blending System Unavailability	If the Plant 33 resin blending system were unavailable, the facility
	would revert to receipt of resin via rail car, which would
	necessitate increased utilization of boilers to produce sufficient
	steam to heat the rail cars to the point the materials are flowable
	and pumpable.

Table 5-7: Other Source-Specific Factors

The Permittee has not quantified effects of these other factors on the estimated BAEs; however, the Permittee has stated that they do reflect source-specific factors and conditions that would also be representative of the BAE within 80% of the current PAL.

Considering the totality of circumstance and the reasoned basis above, DAQ agrees that the facility's actual emissions for GHGs during the selected baseline period (October 2017 through September 2019) could be as high as 84-86% of the current PAL, when factored into source-specific factors as discussed above. Thus, they do meet the 02D .0530(i) criteria for renewing the GHGs PAL at the current PAL (114,271 TPY CO₂e). However, as discussed earlier and shown in Table 5-4 above, the facility's PTE has decreased below the current PAL to a level of 106,205

TPY CO₂e. Thus, in accordance with 15A NCAC 02D .0530(i) and \$51.166(w)(10)(iv)(c), the DAQ adjusts the current GHGs PAL and proposes to renew it at a level of 106,205 TPY CO₂e. The DAQ concludes that this renewed level is reasonably representative of facility's baseline actual emissions.

5.2 PAL Revalidation

In accordance with §51.166(w)(12)(ix), the PAL permit requires the Permittee to revalidate the emissions factors and any other data used in calculating GHGs emissions through performance test or other scientifically valid means once every five years. Refer the Section 2.4.e. of the current permit. The Permittee had submitted the last revalidation for GHGs PAL on November 14, 2016 which was supplemented on January 5, 2017; thus, the next revalidation request is due from the applicant by November 14, 2021. The Permittee has used this PAL renewal application processing opportunity to also submit its revalidation request as discussed below:

The Permittee has argued that the PAL monitoring for GHGs includes exclusively the use of EPA-approved emissions factors (40 CFR 98, Subpart C, Tables C-1 and C-2) and global warming potentials (GWP) for constituent gases (Part 98, Subpart A, Table A-1), and these emissions factors and the GWPs have not changed since the last revalidation request as above. Further, the emission factor for CO_2 for toluene destruction in the RTO (ID No. CD-33-56-RTO) of 3.35 lb CO_2 /lb toluene is the worst-case emission factor and remains valid. The Permittee has stated that the formulations of solvents utilized in the Coating Line No. 5 (discharging to this RTO) has not changed in a manner that would impact this emission factor.

In brief, the DAQ approves the applicant's revalidation request consisting of the use of emissions factors and GWPs, as discussed above.

6. NSPS, NESHAPS, PSD, Attainment Status, 112(r), and CAM

NSPS

The applicable NSPSs for the facility sources have been listed in in Section 5.1 above. This GHGs PAL renewal request does not change the status of the facility sources with respect to NSPSs.

NESHAP/MACT

The applicable NESHAPSs or MACTs for the facility sources have been listed in Section 5.1 above. The PAL renewal request does not change the status of the facility sources with respect to NESHAPs or MACTs.

<u>PSD</u>

The facility is a major stationary source for PSD and it has obtained PAL permits for both VOCs and GHGs. The GHGs PAL renewal request does not trigger any major source (or major modification) requirements for PSD.

Attainment Status

Catawba County is currently in attainment or unclassifiable/attainment for all NAAQSs.

<u>112(r)</u>

This facility is not subject to Section 112(r) of the Clean Air Act.

CAM

Not applicable. The applicability to CAM is generally required to be addressed during processing of renewal or significant modification applications. This application is not a renewal of the Title V permit. It is a significant modification application solely to renew the existing GHGs PAL. Thus, CAM applicability does not need to be addressed with this permit revision.

7. Facility Wide Air Toxics

The facility is currently not subject to NC's air toxics program requirements in 02Q .0700 and 02D .1100. As per the application review supporting the air permit 02218T36 (January 11, 2019), "the air toxics limits were removed from the permit under Air Permit No. 02218T32 issued on December 12, 2012" because it was "determined [that] the facility did not present an unacceptable risk to human health, pursuant to NCGS §143-215.107(a)(5)b. (i.e., Ratified Session Law 2012-91 and House Bill 952 on 6/28/2012)

8. Facility Emissions Review

Page 1 of this application review above includes actual emission for 2015 through 2019.

9. Public Notice/EPA and Affected State(s) Review

With respect to the Title V procedures for public participation, pursuant to 15A NCAC 02Q .0521, a notice of the DRAFT Title V Permit was placed on the NCDEQ website on xx with the comment period beginning on xx. The notice provided for a 30-day comment period with an opportunity for a public hearing. Copies of the public notice were sent to the persons on the Title V mailing list and EPA on xx. Pursuant to 15A NCAC 02Q .0522, a copy of the permit application and the proposed permit (in this case, the draft permit) were provided to EPA for their 45-day review on xx. Also pursuant to 02Q .0522, a notice of the DRAFT Title V Permit was provided to each affected State at or before the time notice provided to the public under 02Q .0521 above. A copy of the final permit will also be provided to the EPA upon issuance as per 02Q .0522.

It should be noted here that the above Title V procedure for public participation in 02Q .0521 conforms to the public participation requirement for PAL renewals in \$5.166(w)(5) (i.e., 30-days period for submittal for public comments). Additionally, pursuant to this PAL provision and the significant modification procedure in \$70.7(h)(6), the DAQ will respond in writing to all public comments, whether received during the public comment period or raised during public hearing (if any) before taking a final action on the submitted PAL renewal application.

10. Stipulation Review

The following Table 10-1 lists the changes to the Shurtape Technologies LLC – Hickory/Highland Plant's Air Quality Permit No. 02218T37:

Old Page	Old Section	New Page	New Section	Description of Change(s)
Air Quality Permit No. 02218T37	Air Quality Permit No. 02218T37	Air Quality Permit No. 02218T38	Air Quality Permit No. 02218T38	
Cover letter & first page of permit				Amended the permit numbers and dates. Included Mr. Paul Scott as responsible official per the submitted application (in addition to Mr. Andy Buckland).
-	-	-	-	Revised the insignificant activity list (attachment to the cover letter) to add natural gas-fired air makeup units and heaters (ID Nos. IES-33-5-MA, IES-33-6,7-MA, IES-33-8,9-MA, IES-33- Mix-MA, IES-36-H, IES-33-C10-H).
43	Section 2.4.a. Table and Note Below	43, 44	Section 2.4.a. Table and Note Below	Revised the Actuals PAL to state 106,205 tons per consecutive 12- months period as CO ₂ e. Included air makeup units and heaters (ID Nos. IES-33-5-MA, IES-33-6,7-MA, IES-33-8,9-MA, IES- 33-Mix-MA, IES-36-H, IES-33-C10-H) as PAL emissions units.
44	Section 2.4.f.	44	Section 2.4.f.	Included air makeup units and heaters and emergency generators.
44	Section 2.4.i., and	44, 45	Section 2.4.i., and Equation Legends A	Included air makeup units and heaters. For legend A, included air makeup units and heaters and

 Table 10-1 Summary of Changes to Current Permit

Old Page Air Quality Permit No. 02218T37	Old Section Air Quality Permit No. 02218T37	New Page Air Quality Permit No. 02218T38	New Section Air Quality Permit No. 02218T38	Description of Change(s)
	Equation Legends A and B		and B	emergency generators. For legend B, included air makeup units and heaters and emergency generators, as applicable.
45	Section 2.4.j.	45	Section 2.4.j.	Included a stipulation for allowing the use of the same emission factor of 3.35 lb CO ₂ /lb toluene destructed in an RTO for similar sources combusting organic materials (if found to be representative), or allowing to develop an alternate (different) emission factor. If a different emission factor is to be developed by the Permittee, it shall be first reviewed and approved by the DAQ, and the permit needed to be revised before the Permittee can use it for monitoring requirement.

11. Conclusions, Comments, and Recommendations

- The application does not involve any air pollution control device on a new or modified source at the facility, requiring review of a design or determination of its performance by a professional engineer licensed in NC. Thus, the requirement in 02Q .0112 "Applications Requiring Professional Engineer Seal" does not apply.
- The submitted PAL renewal application does not entail expansion of the existing facility; thus, the zoning consistency requirement in 02Q .0507(d)(1) does not apply.
- The draft permit was emailed to the Permittee for review on September 21, 2021. Mr. Jerry Eplin of Shurtape Technologies emailed on September 27, 2021 with a few typographical errors on page 3 of the application review. The DAQ will take care of those minor comments and no discussion is required here. In addition, on the same page of the application review, the applicant commented that the DAQ should state that it did submit the renewal application for GHGs PAL, as expeditiously as was possible, on the same day (July 14, 2021) the DAQ corrected the issue with the expiration date from December 31, 20212 to December 31, 2021. The DAQ agrees with the applicant and will amend the page 3 of application review to state the above.
- The draft permit was emailed to the Mooresville Regional Office (MRO) for review on September 21, 2021. Denise Hayes of the MRO emailed on October 1, 2021 indicating that she had no comments on the draft permit.
- This engineer recommends renewal of the GHGs PAL after the completion of both the public comment and EPA review periods.