STATEMENT OF BASIS

For the issuance of Air Permit # 2111-AOP-R6 AFIN: 16-00222

1. PERMITTING AUTHORITY:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT:

Crane Composites, Inc. 8500 CW Post Road Jonesboro, Arkansas 72401

3. PERMIT WRITER:

Jimmy Do

4. NAICS DESCRIPTION AND CODE:

NAICS Description:All Other Plastics Product ManufacturingNAICS Code:326199

5. ALL SUBMITTALS:

The following is a list of ALL permit applications included in this permit revision.

Date of Application	Type of Application	Short Description of Any Changes
	(New, Renewal, Modification,	That Would Be Considered New or
	Deminimis/Minor Mod, or	Modified Emissions
	Administrative Amendment)	
2/27/2023	Minor Mod	Allow core resin to be stored at SN-08
		and the tank will be renamed as Tank 8.

6. **REVIEWER'S NOTES**:

This permit's minor mod will allow the use of the Gel Coat tank SN-08, which originally held gel resin, to be used to hold core resin. Due to this change the Gel Coat tank will be renamed as Tank 8. Permitted emissions for VOC increased by 0.1 tpy, Methyl Methacrylate by 0.05 tpy, and Vinyl Acetate by 0.04. Permitted emissions for Styrene decreased by 0.18 lbs/hr.

7. COMPLIANCE STATUS:

The following summarizes the current compliance of the facility including active/pending enforcement actions and recent compliance activities and issues.

The last inspection was conducted January 9, 2023. No areas of concern were identified. A review of ECHO revealed no additional CAA violations in the last twelve quarters.

8. PSD/GHG APPLICABILITY:

a) Did the facility undergo PSD review in this permit (i.e., BACT, Modeling, etc.)? No. If yes, were GHG emission increases significant? N/A.

- b) Is the facility categorized as a major source for PSD? No.
- Single pollutant \geq 100 tpy and on the list of 28 or single pollutant \geq 250 tpy and not on list

If yes for 8(b), explain why this permit modification is not PSD. N/A

9. SOURCE AND POLLUTANT SPECIFIC REGULATORY APPLICABILITY:

Source	Pollutant	Regulation (NSPS, NESHAP or PSD)
SN-01	VOC/HAP	40 C.F.R. Part 63, Subpart SS
SN-09	НАР	40 C.F.R. Part 63, Subpart ZZZZ
Facility	CO/NO _X	40 C.F.R. Part 60, Subpart JJJJ
	VOC/HAP	40 C.F.R. Part 63, Subpart WWWW
	VOC/HAP	40 C.F.R. Part 63, Subpart EEEE

10. UNCONSTRUCTED SOURCES:

Unconstructed	Permit	Extension	Extension	If Greater than 18 Months without
	Approval	Requested	Approval	Approval, List Reason for Continued
Source	Date	Date	Date	Inclusion in Permit
			None	

11. PERMIT SHIELD – TITLE V PERMITS ONLY:

Did the facility request a permit shield in this application? No (Note - permit shields are not allowed to be added, but existing ones can remain, for minor modification applications or any Regulation 18 requirement.)

If yes, are applicable requirements included and specifically identified in the permit?N/A If not, explain why. N/A.

12. COMPLIANCE ASSURANCE MONITORING (CAM) – TITLE V PERMITS ONLY:

List sources potentially subject to CAM because they use a control device to achieve compliance and have pre-control emissions of at least 100 percent of the major source level. List the pollutant of concern and a brief summary of the CAM plan (temperature monitoring, CEMs, opacity monitoring, etc.) and frequency requirements of § 64.

Source	Pollutant Controlled	Cite Exemption or CAM Plan Monitoring and Frequency
SN-01	VOC	 Per 40 C.F.R. 64.2(b)(1)(i), CAM requirements do not apply to emission limitations or standards proposed by the Administrator after November 15, 1990 pursuant to section 111 or 112 of the Act. SN-01 is subject to 40 C.F.R. Part 63, Subpart WWW.

13. EMISSION CHANGES AND FEE CALCULATION:

See emission change and fee calculation spreadsheet in Appendix A.

14. AMBIENT AIR EVALUATIONS:

The following are results for ambient air evaluations or modeling.

a) NAAQS

A NAAQS evaluation is not required under the Arkansas State Implementation Plan, National Ambient Air Quality Standards, Infrastructure SIPs and NAAQS SIP per Ark. Code Ann. § 8-4-318, dated March 2017 and the DEQ Air Permit Screening Modeling Instructions.

b) Non-Criteria Pollutants:

The non-criteria pollutants listed below were evaluated. Based on Division of Environmental Quality procedures for review of non-criteria pollutants, emissions of all other non-criteria pollutants are below thresholds of concern.

1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Division of Environmental Quality has deemed the PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (ACGIH).

Permit #: 2111-AOP-R6 AFIN: 16-00222 Page 4 of 9

Pollutant	TLV (mg/m ³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Acenaphthene	0.2	0.022	3.71E-08	Yes
Acenaphthylene	0.2	0.022	3.71E-08	Yes
Anthracene	0.2	0.022	4.94E-08	Yes
Arsenic Compounds	0.01	0.0011	4.12E-06	Yes
Benz(a)anthracene	0.2	0.022	3.71E-08	Yes
Benzo(a)pyrene	0.2	0.022	2.47E-08	Yes
Benzo(b)fluoranthene	0.2	0.022	3.71E-08	Yes
Benzo(g,h,i)perylene	0.2	0.022	2.47E-08	Yes
Benzo(k)fluoranthene	0.2	0.022	3.71E-08	Yes
Beryllium Compounds	0.00005	0.0000055	2.47E-07	Yes
Cadmium Compounds	0.01	0.0011	2.26E-05	Yes
Chromium Compounds	0.01	0.0011	2.88E-05	Yes
Chrysene	0.2	0.022	3.71E-08	Yes
Cobalt Compounds	0.02	0.0022	1.73E-06	Yes
Dibenzo(a,h)anthracene	0.2	0.022	2.47E-08	Yes
7,12- Dimethylbenz(a)anthracene	0.2	0.022	3.29E-07	Yes
Fluoranthene	0.2	0.022	6.18E-08	Yes
Fluorene	0.2	0.022	5.76E-08	Yes
Indeno(1,2,3-c,d)pyrene	0.2	0.022	3.71E-08	Yes
Lead	0.05	0.0055	1.03E-05	Yes
Manganese Compounds	0.2	0.022	7.82E-06	Yes
Mercury Compounds	0.025	0.00275	5.35E-06	Yes
3-Methylchloranthrene	0.2	0.022	3.71E-08	Yes
2-Methylnaphthalene	0.2	0.022	4.94E-07	Yes
Phenanthrene	0.2	0.022	3.5E-07	Yes
2-Phenoxyethanol	96.66*	10.63	0.009169	Yes

Permit #: 2111-AOP-R6 AFIN: 16-00222 Page 5 of 9

Pollutant	TLV (mg/m ³)	PAER (lb/hr) = 0.11 × TLV	Proposed lb/hr	Pass?
Pyrene	0.2	0.022	1.03E-07	Yes
Selenium Compounds	0.2	0.022	4.94E-07	Yes
Styrene	85.2	9.372	18.37	No

* This value is currently used as a surrogate threshold for glycol ethers with no established limit.

2nd Tier Screening (PAIL)

AERMOD air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound has been deemed by the Division of Environmental Quality to be one onehundredth of the Threshold Limit Value as listed by the ACGIH.

Pollutant	PAIL $(\mu g/m^3) = 1/100$ of Threshold Limit Value	Modeled Concentration $(\mu g/m^3)$	Pass?
Styrene*	852	68.24259	Yes

*Results are from R5, where a larger value was initially modeled.

c) H₂S Modeling:

A.C.A. §8-3-103 requires hydrogen sulfide emissions to meet specific ambient standards. Many sources are exempt from this regulation, refer to the Arkansas Code for details.

Is the facility exempt from the H₂S Standards Y If exempt, explain: No H₂S release

15. CALCULATIONS:

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
01	Natural Gas $PM_{10}=7.6 \text{ lb}/10^6 \text{ scf}$ Combustion $SO_2=0.6 \text{ lb}/10^6 \text{ scf}$				
01	Panels Mass Balance	Two (2) Lines- Max usage rates	RTO	95%	100% Capture 95%

Permit #: 2111-AOP-R6 AFIN: 16-00222 Page 6 of 9

SN	Emission Factor Source (AP-42, testing, etc.)	Emission Factor (lb/ton, lb/hr, etc.)	Control Equipment	Control Equipment Efficiency	Comments
		Core resin= 100 lb/min = 6,000 lb/hr Gel coat= 18 lb/min = 1,080 lb/hr <u>Total Annual Resin Usage</u> <u>Limit</u> Core resin= 83,044,800 lb/yr Gel coat= 14,948,064 lb/yr <u>Total VOC's emitted from</u> <u>raw materials</u> 0.0219 lb VOC/lb core resin 0.0849 lb VOC/lb gel coat resin <u>VOC's emitted in these</u> <u>proportions</u> Wet End= 91% Ovens= 9%			Destruction
02	Mass Balance AP-42 Section 11.13	3.0 lb PM/ton	Fabric Filter	99.9%	
07	Mass Balance AP-42 Section 11.13	3.0 lb PM/ton	Fabric Filter	99.9%	
08	Tanks 4.0	15.3 lb VOC/hr			Uncontrolled
09	AP-42 Table 3.2-3	PM/PM ₁₀ —1.941E-02 lb/MMBtu SO ₂ —5.88E-04 lb/MMBtu VOC—0.03 lb/MMBtu CO—3.72 lb/MMBtu NO _X —2.21 lb/MMBtu			500 hr/yr

16. TESTING REQUIREMENTS:

The permit requires testing of the following sources.

SN	Pollutants	Test Method	Test Interval	Justification
01	VOC	25A	5 yr	Required By 40 C.F.R. Part 63 Subpart

SN	Pollutants	Test Method	Test Interval	Justification
				WWWW

17. MONITORING OR CEMS:

The permittee must monitor the following parameters with CEMS or other monitoring equipment (temperature, pressure differential, etc.)

SN	Parameter or Pollutant to be Monitored	Method (CEM, Pressure Gauge, etc.)	Frequency	Report (Y/N)
01	Combustion Chamber Temperature	Thermocouple	Continuously	Y
	Inspection of PTE for leaks	N/A	Annual	Ν

18. RECORDKEEPING REQUIREMENTS:

The following are items (such as throughput, fuel usage, VOC content, etc.) that must be tracked and recorded.

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)	
	Core Resin Throughput	N/A	Daily	Y	
	Gel Coat Resin Throughput	N/A	Daily		
	Combustion Chamber Temperature	1400 °F (minimum)	Continuously		
	Inspection of PTE for leaks	N/A	Annual	Ν	
01	Documentation that each transfer rack is not required to be controlled	N/A	N/A	Ν	
	HAP Content	Core Resins 45% VOC 45% Styrene 5% Methyl Methacrylate 1% Vinyl Acetate	N/A	Y	
		Gel Coats			

SN	Recorded Item	Permit Limit	Frequency	Report (Y/N)	
		42% VOC			
		41% Styrene			
		0.2% Xylene			
		0.1%			
		Ethylbenzene			
	Amount of filler	2,100 tons per			
02 & 07	received	consecutive 12-	Monthly	Y	
	leceiveu	month period			
	Amount of	504,000 gallons			
08		per consecutive	Monthly	Y	
	styrene received	12-month period			
	Hours of	500 hr/yr	Monthly	Y	
	operation	500 m/yi	Monuny	1	
09	40 C.F.R. Part 60				
	Subpart JJJJ	N/A	As required	Ν	
	records				

19. OPACITY:

SN	Opacity	Justification for limit	Compliance Mechanism
01, 02, 07	0%	Department Guidance	Weekly Inspection
09	5%	Department Guidance	Use of Natural Gas Only

20. DELETED CONDITIONS:

Former SC	Justification for removal		
None			

21. GROUP A INSIGNIFICANT ACTIVITIES:

The following is a list of Insignificant Activities including revisions by this permit.

Source Name	Crown A	Emissions (tpy)							
	Group A Category	PM/PM10	SO ₂	VOC	СО	NOx	HAPs		
							Single	Total	
Diesel Storage Tank	A-3			0.01			0.01	0.01	
(300 gallon)	A-3			0.01			0.01	0.01	
R&D Lab Hood	A-5			0.01			0.01	0.01	
Color Lab Hood	A-5			0.01			0.01	0.01	

22. VOIDED, SUPERSEDED, OR SUBSUMED PERMITS:

The following is a list of all active permits voided/superseded/subsumed by the issuance of this permit.

Permit #
2111-AOP-R5

APPENDIX A – EMISSION CHANGES AND FEE CALCULATION

Fee Calculation for Major Source

Facility Name: Crane Composites, Inc. Permit Number: 2111-AOP-R6 AFIN: 16-00222

\$/ton factor Permit Type	25.13 Minor Mod	Annual Chargeable Emissions (tpy) Permit Fee \$	<u> </u>
Minor Modification Fee \$ Minimum Modification Fee \$ Renewal with Minor Modification \$	500 1000 500		
Check if Facility Holds an Active Minor Source or Mino Source General Permit If Hold Active Permit, Amt of Last Annual Air Permit Invoice \$ Total Permit Fee Chargeable Emissions (tpy) Initial Title V Permit Fee Chargeable Emissions (tpy)	or 🔽 0 0.1		

HAPs not included in VOC or PM:

Chlorine, Hydrazine, HCl, HF, Methyl Chloroform, Methylene Chloride, Phosphine, Tetrachloroethylene, Titanium Tetrachloride

Air Contaminants:

All air contaminants are chargeable unless they are included in other totals (e.g., H2SO4 in condensible PM, H2S in TRS, etc.)

Revised 03-11-16

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
PM		1	1	0		
PM_{10}		1	1	0	0	1
PM _{2.5}		0	0	0		
SO ₂		0.2	0.2	0	0	0.2
VOC		36.1	36.2	0.1	0.1	36.2
со		8.2	8.2	0		
NO _X		9.5	9.5	0	0	9.5
Styrene		34.33	34.33	0		

Pollutant (tpy)	Check if Chargeable Emission	Old Permit	New Permit	Change in Emissions	Permit Fee Chargeable Emissions	Annual Chargeable Emissions
Methyl Methacrylate		2.77	2.82	0.05		
Vinyl Acetate		0.77	0.81	0.04		
Xylene		0.09	0.09	0		
Ethylbenzene		0.06	0.06	0		
2-Phenoxyethanol		0.04	0.04	0		
Other HAPs**		0.18	0.18	0		