

909 Wright's Summit Pkwy, Ste 230, Covington, KY 41011 / P 859.341.8100 / F 859.341.1021 / trinityconsultants.com

December 31, 2024

Michael Kennedy Director Kentucky Division for Air Quality 300 Sower Blvd Frankfort, KY 40601 michael.kennedy@ky.gov

RE: Significant Permit Revision Application for Title V Permit No. V-16-052 R1
Request for Reclassification as Conditional Major Source
Daramic, LLC – Owensboro, Kentucky Facility (AI: 894; Source ID: 021-059-00006)

Dear Michael:

Trinity Consultants (Trinity) is submitting the following significant permit revision application for Daramic, LLC's (Daramic's) Owensboro, Kentucky facility. The facility is currently operating under Title V Permit No. V-16-052 R1, which was originally issued by the Kentucky Division for Air Quality (KDAQ) on May 31, 2017, and revised on December 22, 2021. Daramic submitted a timely renewal application as required for this permit.

The current Title V permit covers equipment associated with the full-scale commercial manufacturing of polyethylene battery separators through five main processes: receiving and handling of bulk materials, mixing of bulk materials, extrusion of the mixture, extraction of oil from the polyethylene web, and finishing by application of fiberglass mat to the polyethylene web and/or slitting/chopping. Section C of the permit identifies Insignificant Activities (IAs), including a Research and Development (R&D) scale battery separator production process as well as a wastewater treatment system. Section D of the permit limits the facility's hexane/n-hexane emissions to 529.98 tons per year (tpy).

According to the Permit Application Summary Form associated with the current permit, the facility's potential-to-emit (PTE) of volatile organic compounds (VOC) exceeds the associated Title V permitting threshold of 100 tpy, while the PTEs of hexane and combined Hazardous Air Pollutants (HAPs) exceed the associated Title V and major HAP source thresholds of 10 tpy and 25 tpy, respectively.

SCOPE OF FUTURE OPERATIONS

Due to changing market demands, Daramic has shut down most of the equipment identified in Section B of the current air permit and will continue to operate only R&D equipment and support facilities. The R&D equipment will only be used to produce non-saleable product. Based on worst-case annual emissions from the R&D extraction process, the post-shutdown facility could potentially exceed the HAP major source threshold; however, Daramic does not anticipate this level of hexane usage. Accordingly, this significant permit revision application requests (1) a voluntary limit on hexane/n-hexane emissions and (2) that the source be reclassified as a conditional major source subject to the requirements of 401 KAR 52:030, federally-enforceable permits for non-major sources, and as an area source of HAP emissions. Attachment A provides the requisite application forms.

The DEP7007DD form included in Attachment A identifies IAs that will remain operational. Apart from these IAs, the following equipment will continue to operate:

- ▶ Cleaver Brooks 900 HP Boiler This unit is identified in Section B, Group 01 of the current permit and is referred to as emission point (EP) 77. It is rated at 37.8 MMBtu/hr and will only combust natural gas fuel. Therefore, Daramic requests that the revised permit eliminate the identification of distillate fuel oil as a backup fuel.
- ► Cummins Diesel-fired Emergency Fire Pump Engine This unit is identified in Section B of the current permit and is referred to as EP228. It is rated at 235 hp.
- ▶ R&D Pilot Lab Extractor This unit is currently identified as an IA in Section C of the permit and is referred to as EP67, 68; however, due to a revised estimate of worst-case hexane usage in this equipment, its potential VOC and HAP emissions exceed the IA thresholds. Therefore, Daramic requests that KDAQ redesignate the R&D extractor as a significant emission point and include this equipment in Section B of the updated permit. Vents from the extractor are routed to the R&D Pilot Lab Carbon Beds (2). A DEP7007B form for the extractor is included in Attachment A.

AIR EMISSIONS

To estimate the PTE of the equipment that will remain operational, Daramic used the following methodologies:

- ▶ Cleaver Brooks 900 HP Boiler (EP77) The PTE for this unit is based on the combustion of natural gas only using the emission factors and maximum operating rate found in the Kentucky Emissions Inventory System (KYEIS). As DEP7007-series forms have previously been submitted for this existing boiler, the application forms in Attachment A do not account for this boiler.
- ► Cummins Diesel-fired Emergency Fire Pump Engine (EP228) The PTE for this unit is based on the emission factors and maximum operating rate found in the KYEIS. As DEP7007-series forms have previously been submitted for this existing engine, the application forms in Attachment A do not account for this engine.
- ▶ R&D Pilot Lab Extractor (EP67, 68) Daramic is requesting a voluntary limit of 9 tpy for hexane emissions from this extractor. This voluntary limit is documented by the DEP7007V forms provided in Attachment A. While vents from the extractor are routed through pilot-scale carbon beds, Daramic will not account for the control provided by these carbon beds when estimating emissions. Rather, Daramic will demonstrate compliance with this voluntary limit using the quantity of solvent consumed by the extractor system, which will be calculated based on solvent purchase records for the year discounted by the quantity of hexane contained in the waste shipped off-site for the same time period. Revised emission estimates for this equipment are documented by the DEP7007N form provided in Attachment A.
- ▶ IAs Daramic has provided estimates for emissions from these insignificant operations in the DEP7007DD form provided in Attachment A. Emissions from these IAs have been rolled into the sitewide total for the post-shutdown operations.

The following table presents the estimated total PTE for the boiler, emergency engine, R&D extractor process, and IAs:

Table 1. Revised Site-wide PTE

	Total PTE
Pollutant	(tpy)
CO	14.30
NOx	18.37
PT	4.39
PM ₁₀	4.39
PM _{2.5}	4.39
SO ₂	0.22
VOC	15.05
CO ₂ e	19,935
Hexane	9.30

The site-wide PTE for hexane accounts for the 9 tpy voluntary limit proposed by this application for the extractor (EP67, 68) as well as the worst-case estimate of hexane emissions from the boiler (EP77). Other equipment that will remain operational following the facility shutdown does not contribute to hexane emissions from the site. While the boiler and engine will emit additional HAPs, these contributions do not approach the 25 tpy major source threshold for combined HAPs.

REGULATORY REVIEW

The following subsections discuss the applicability of regulatory requirements for this revision.

401 KAR 52:020 vs. 401 KAR 52:030

With respect to the Title V program, the term *major source* is defined as a stationary source or a group of stationary sources that emits or has a potential to emit a pollutant that is subject to regulation at or above a major source threshold. Based on the facility's location in Daviess County, Kentucky, which is designated as in attainment/unclassifiable for all pollutants, the following major source thresholds are applicable to Daramic:

- 10 tpy of a single HAP;
- ▶ 25 tpy or more of combined HAPs; or
- ▶ 100 tpy or more for regulated air pollutants other than HAPs

Based on the voluntary limit on hexane emissions requested by this application, Daramic will not be considered a major source and therefore will not be subject to the Title V permitting requirements of 401 KAR 52:020. Instead, Daramic will be subject to permitting requirements for conditional major sources. Specifically, 401 KAR 52:030 establishes federally-enforceable permitting requirements for nonmajor sources that accept permit conditions that are legally and practically enforceable to limit their PTE below the major source thresholds that would make them subject to 401 KAR 52:020. Although the permit content is largely similar, permits for conditional major sources and associated reports are not subject to EPA review.

NESHAP Subpart DDDDD vs. NESHAP Subpart JJJJJJ

Pursuant to 40 CFR 63.7485, National Emission Standard for Hazardous Air Pollutants Subpart DDDDD (Boiler MACT) applies to industrial, commercial, or institutional boilers or process heaters, as defined in 40 CFR 63.7575 that are located at, or are part of, a major source of HAP, except as specified in 40 CFR

Michael Kennedy - Page 4 December 31, 2024

63.7491. Following the requested permit revision, Daramic will represent an area source of HAP emissions. Accordingly, Boiler MACT will not apply to the remaining operational boiler at the site.

Pursuant to 40 CFR 63.11193, National Emission Standard for Hazardous Air Pollutants Subpart JJJJJJ (Boiler NESHAP) applies to industrial, commercial, or institutional boilers, as defined in 40 CFR 63.11237 that are located at, or are part of, an area source of HAP, except as specified in 40 CFR 63.11195. 40 CFR 63.11195(e) establishes an exemption for gas-fired boilers, where 40 CFR 63.11237 defines a *gas-fired boiler* as a boiler that burns gaseous fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or for periodic testing, maintenance, or operator training on liquid fuel. Based on Daramic's request to remove distillate oil as a backup fuel option, the boiler (EP77) will not be subject to Boiler NESHAP requirements.

401 KAR 59:015 - New Indirect Heat Exchangers

By revising the existing permit language to remove NESHAP Subpart DDDDD requirements for the boiler (EP77), the requirement to track boiler startups and shutdowns will also be removed. Accordingly, the startup and shutdown requirements of 401 KAR 59:015, Section 7 are identified in the DEP7007V forms in Attachment A.

CERTIFICATION STATEMENT

The required certification statement is affirmed by the responsible official via the signature on the DEP7007AI from in Attachment A. Through this letter and application, Daramic requests the significant permit revision in accordance with 401 KAR 52:030, Section 16.

 \sim

If you have any questions or comments about the information presented in this significant revision application, please do not hesitate to call me at (859) 341-8100 ext. 1804.

Sincerely,

Maren Seibold Managing Consultant

Maran Sci Ber

Attachments

cc: Michael Galbraith, Daramic Maggie Fox, Daramic Elisabeth Martin, Trinity Consultants

ATTACHMENT A

DEP7007 Forms (AI, B, N, V, and DD)

Division for Air Quality		nality	I	DEP7	007AI		Ad	Iditional Docume	ntation
		adiity	Admini	strativ	e Information				
300 Sower Boulevard			Sectio	n AI.1:	Source Information		_ Addition	nal Documentation att	ached
Frankf	ort, KY 4060)1	Sectio	n AI.2:	Applicant Information				
(502	2) 564-3999		Sectio	n AI.3:	Owner Information				
			Sectio	n AI.4:	Type of Application				
			Sectio	n AI.5:	Other Required Inform	ation			
			Section	n AI.6:	Signature Block				
			Section	n AI.7:	Notes, Comments, and	Explanation	ons		
Source Name:		Daramic, LLC	•						
KY EIS (AFS) #:		21-059-00006							
Permit #:		V-16-052 R1							
Agency Interest (AI)	ID:	894							
Date:		Tuesday, Dec	rember 31, 2024						_
Section AI.1: Se	ource Inf	ormation							
Physical Location	Street:	5525 Hwy 2830							
Address:	City:	Owensboro		County:	Daviess		Zip Code:	42303	
Mailing Address:	Street or P.O. Box:	5525 Hwy 2830	1						
g	City:	Owensboro		State:	KY		Zip Code:	42303	
Standard Coordinates for Source Physical Location									
Longitude:		-87.0505	_(decimal degrees)		Latitude:	37.8106	;	(decimal degrees)	
Primary (NAICS) Ca	tegory:	Unlaminated	Plastics Film and Sheet		Primary NAICS #:		3.	26113	

Classification (SIC) Ca	tegory:	Unsupported Plastic	s Film and Sheets	Primary SIC #:	3081		
Briefly discuss the type conducted at this site:	of business	processes: mixing of bulk m	aterials, extrusion of the r	ors through its Research and Dev nixture, extraction of oil from the olves auxiliary operations includ	polyethylene web using	hexane, and finishing b	y application of
Description of Area Surrounding Source:	X Rural Area Urban Area	Industrial Park X_ Industrial Area	Residential Area Commercial Area	Is any part of the source located on federal land?	Yes _ X _ No	Number of Employees:	21
Approximate distance to nearest residence or commercial property:	o nearest residence or		Property Area: 66.2	11 acres	Is this source portab	le?Yes _ <u>X</u> No	
	What othe	r environmental permit	s or registrations does	this source currently hold	or need to obtain in	Kentucky?	
NPDES/KPDES:	X Currently Ho	old Need	N/A				
Solid Waste:	Currently Ho	ld Need	<u>X</u> N/A				
RCRA:	X Currently Ho	old Need	N/A				
UST:	Currently Ho	old Need	<u>X</u> N/A				
Type of Regulated	Mixed Waste	e Generator	X Generator	Recycler	Other:		
Waste Activity:	U.S. Importe	r of Hazardous Waste	Transporter	Treatment/Storage/Disposal	Facility	_ N/A	

Section AI.2: Ap	plicant Inforn	nation				
Applicant Name:	Daramic, LL	С				
Title: (if individual)	N/A					
Mailing Address:	Street or P.O. Bo)X:		5525 Hwy 28	330	
Wiaming Address.	City:	Owensboro	State:	KY	Zip Code:	42303
Email: (if individual)	N/A					
Phone:	(270) 683-1561	,				
Technical Contact						
Name:	Maggie Fox					
Title:	Corporate E.	SH Manager, Management Sys	tems			
Mailing Address:	Street or P.O. Bo			5525 Highway	2830	
riaming riddi ess.	City:	Owensboro	State:	KY	Zip Code:	42303
Email:	Maggie.Fox	@polypore.net				
Phone:	(812) 725-36	82				
Air Permit Contact for	Source					
Name:	Maggie Fox					
Title:	Corporate E.	SH Manager, Management Sys	tems			
Mailing Address:	Street or P.O. Bo	ox:		5525 Highway	2830	
Maning Audi Cos.	City:	Owensboro	State:	KY	Zip Code:	42303
Email:	Maggie.Fox	@polypore.net				
Phone:	(812) 725-36	82				

Section AI.3: Ov	vner Information				
X Owner sam	ne as applicant				
Name:					
Title:					
Mailing Address:	Street or P.O. Box:				
Waning Address.	City:		State:	Zip Code:	
Email:					
Phone:					
List names of owners a	nd officers of the company who have a	n interest in the cor	npany of 5% or more.		
	Name			Position	
	Daramic, LLC				

Section AI.4: Type of Application									
Current Status:	X Title V Conditi	onal Major	State-Origin		General Permit	Registra	ation None		
	Name Change	Initial Re		X Significan			strative Permit Amendment		
Requested Action: (check all that apply)	Renewal Permit 502(b)(10) Change	Revised R Extension		Minor Rev	of New Facility		ource-wide OperatingPermit Plant Relocation Notice		
1127	Revision Ownership Change	Off Permi	t Change	Landfill A	Iternate Compliance Submittal	Modific	ation of Existing Facilities		
Requested Status:	Title V X Conditi	onal Major	State-Origin	PSI	NSRNSR	Other	::		
Is the source requesting a limitation of potential emissions? X Yes No									
Pollutant:		Requested L	imit:		Pollutant:		Requested Limit:		
Particulate Matter				_	X Single HAP		9.3 tons per year		
Volatile Organic Co	ompounds (VOC)			_	Combined HAPs				
Carbon Monoxide				Air Toxics (40 CFR 68, Subpart F)		bpart F)			
Nitrogen Oxides				Carbon Dioxide					
Sulfur Dioxide Lead				-	Greenhouse Gases (GHG) Other				
For New Construction	n:								
Proposed Start Date of Construction: (MM/YYYY) N/A			N/A	Proposed -	Operation Start-Up Date: (M	IM/YYYY)	N/A		
For Modifications:									
Proposed Start Date of Modification: (MM/YYYY)			N/A	Proposed Operation Start-Up Date: (MM/YYY		MM/YYYY)	N/A		
Applicant is seeking coverage under a permit shield. X Yes Identify any non-applicable requirements for which permit shield is sought on a separate attachment to the application.									

Section AI.5 Other Required Information	
Indicate the documen	ts attached as part of this application:
DEP7007A Indirect Heat Exchangers and Turbines	DEP7007CC Compliance Certification
X DEP7007B Manufacturing or Processing Operations	X DEP7007DD Insignificant Activities
DEP7007C Incinerators and Waste Burners	DEP7007EE Internal Combustion Engines
DEP7007F Episode Standby Plan	DEP7007FF Secondary Aluminum Processing
DEP7007J Volatile Liquid Storage	DEP7007GG Control Equipment
DEP7007K Surface Coating or Printing Operations	DEP7007HH Haul Roads
DEP7007L Mineral Processes	Confidentiality Claim
DEP7007M Metal Cleaning Degreasers	Ownership Change Form
X DEP7007N Source Emissions Profile	Secretary of State Certificate
DEP7007P Perchloroethylene Dry Cleaning Systems	Flowcharts or diagrams depicting process
DEP7007R Emission Offset Credit	Digital Line Graphs (DLG) files of buldings, roads, etc.
DEP7007S Service Stations	Site Map
DEP7007T Metal Plating and Surface Treatment Operations	Map or drawing depicting location of facility
X DEP7007V Applicable Requirements and Compliance Activities	Safety Data Sheet (SDS)
DEP7007Y Good Engineering Practice and Stack Height Determination	Emergency Response Plan
DEP7007AA Compliance Schedule for Non-complying Emission Units	Other:
DEP7007BB Certified Progress Report	
Continue AT Co Ciamatana Diagla	
Section AI.6: Signature Block	
the information submitted in this document and all its attachments	responsible official*, and that I have personally examined, and am familiar with, . Based on my inquiry of those individuals with primary responsibility for obtaining belief, true, accurate, and complete. I am aware that there are significant penalties bility of fine or imprisonment.
Eric Miller	Plant Manager
Type or Printed Name of Signatory *Responsible official as defined by 401 KAR 52:001.	Title of Signatory

Section AI.7: Notes, Comments, and Explanations
The Owensboro facility is shutting down its full-scale battery separator manufacturing processes and will only be operating the R&D equipment and necessary support facilities moving forward. The R&D equipment will not be used to produce saleable product.
Due to the worst-case usage of hexane solvent to extract the oil from the polyethylene web, the R&D operations have the potential to emit more than 10 tons per year of hexane. Therefore, Daramic is requesting a voluntary limit to avoid triggering Title V permitting requirements.
The emergency fire pump engine represented in the current air permit is owned by Daramic but will be operated by Milliken & Company Owensboro Specialty Polymers.

DEP7007B Additional Documentation Division for Air Quality Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG. Manufacturing or Processing Operations 300 Sower Boulevard Attach a flow diagram Frankfort, KY 40601 Section B.1: Process Information Attach SDS Section B.2: Materials and Fuel Information (502) 564-3999 Section B.3: Notes, Comments, and Explanations Daramic, LLC **Source Name:** 21-059-00006 KY EIS (AFS) #: V-16-052 R1 Permit #: 894 **Agency Interest (AI) ID:** 12/31/2024 Date: **Section B.1: Process Information** Date of Number of Construction Is the Process Batches per Hours per Emission **Emission** Describe Manufacture Commencement Continuous or 24 Hours Batch Unit# **Unit Name Emission Unit Process ID Process Name** Model No. (MM/YYYYY)Batch? (if applicable) (if applicable) **R&D Pilot Lab Extractor** 67, 68 Solvent Consumed Existing Batch Variable Variable

Section B.2: Materials and Fuel Information

*Maximum yearly fuel usage rate only applies if applicant request operating restrictions through federally enforceable limitations.

		Name of Raw	Maximum Quantity of Each Raw Material Input	Total Process Weight Rate for Emission	Name of	Maximum Quantity of Each Finished Material Output			m Hourly age Rate	Yearl	mum y Fuel e Rate	Sulfur	Ash
Emission	Emission Unit	Materials	(Specify	Unit	Finished	(Specify	Fuel		(Specify		(Specify	Content	Content
Unit #	Name	Input	Units/hr)	(tons/hr)	Materials	Units/hr)	Type		Units)		Units)	(%)	(%)
67, 68	R&D Pilot Lab Extractor	Solvent	6 lb/hr	N/A	Battery Separator	6 m ² web/hr	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Section B.3: Notes, Comments, and Explanations

The maximum operating rate of the R&D Pilot Lab Extractor is estimated based on recent actual operations scaled to a worst-case basis.

Division for Air Quality	
300 Sower Roulevard	

Frankfort, KY 40601 (502) 564-3999

Source	Em	iss	ions	Prof	ĭle

Section N.1: Emission SummarySection N.2: Stack Information

__ Section N.3: Fugitive Information

__ Section N.4: Notes, Comments, and Explanations

Additional	Documentation

__ Complete DEP7007AI

	NT
ource	Name:

KY EIS (AFS) #:

Permit #:

Agency Interest (AI) ID:

Date:

Daramic, LLC

V-16-052 R1

894

21- *059-00006*

December 31, 2024

N.1: Emission Summary

					Control		Maximum Design Capacity		Uncontrolled	Emission Factor Source		Control	Hourly E		Annual Er Uncontrolled	
Emission Unit #	Emission Unit Name	Process ID	Process Name	Device Name	Device ID	Stack ID	(SCC Units/hour)	Pollutant	Emission Factor		Capture	Efficiency	Potential (lb/hr)	Potential (lb/hr)	Potential (tons/yr)	Potential (tons/yr)
67, 68	R&D Pilot Lab Extractor	1	Solvent Consumed	N/A	N/A	N/A	0.003	VOC	2,000	Mass Balance	N/A	N/A	5.7	N/A	9.0	N/A
							0.003	Hexane	2,000	Mass Balance	N/A	N/A	5.7	N/A	9.0	N/A

Section N	Section N.2: Stack Information								
UTM Zon	UTM Zone:								
Stock ID	Identify all Emission Units (with Process ID) and	Sta	ack Physical Da	nta	Stack UTM	Coordinates	Sta	ack Gas Stream D	ata
Stack ID	Control Devices that Feed to Stack	Equivalent Diameter (ft)	Height (ft)	Base Elevation (ft)	Northing (m)	Easting (m)	Flowrate (acfm)	Temperature (°F)	Exit Velocity (ft/sec)
			No	Changes to Sta	ack Information				

Section N.3: I	Section N.3: Fugitive Information								
UTM Zone: 1	6								
Emission Unit #	Emission Huit Name	Due coss ID	Area Physic	cal Data	Area UTM	Coordinates	Area Rele	ase Data	
Emission Unit #	Emission Unit Name	Process ID	Length of the X Side (ft)	Length of the Y Side (ft)	Northing (m)	Easting (m)	Release Temperature (°F)	Release Height	
		No Change	to Fugitive Emission	s Associated With	n This Application	า			

Section N.4: Notes, Comments, and Explanations

As accurate DEP7007N forms have previously been submitted for the Cleaver Brooks Boiler (EP77) and the Cummins Emergency Engine (EP228), this updated form only reflects the revised PTE for the R&D Pilot Lab Extractor (EP67, 68). While vents from the extractor are routed through pilot-scale carbon beds, Daramic is not proposing to account for the control provided by these carbon beds when estimating actual emissions. Rather, the annual operating rate for the extractor will be based on the quantity of solvent consumed, which will be calculated using solvent purchase records for the year discounted by the quantity of hexane contained in the waste shipped off-site for the same time period.

Division for Air Quality

300 Sower Boulevard Frankfort, KY 40601 (502) 564-3999

Source Name:

Permit #:

Date:

KY EIS (AFS) #:

Agency Interest (AI) ID:

DEP7007V

Applicable Requirements and Compliance Activities

___ Complete DEP7007AI

Additional Documentation

Section V.1: Emission and Operating Limitation(s)
Section V.2: Monitoring Requirement
Section V.3: Recordkeeping Requiren
Section V.4: Reporting Requirements
Section V.5: Testing Requirements
Section V.6: Notes, Comments, and Explanations

Section V.1: Emission and Operating Limitation(s)

894

Daramic, LLC

21-059-00006

V-16-052 R1

12/31/2024

Emission Unit #	Emission Unit Description Natural Gas Boiler	Applicable Regulation or Requirement 401 KAR 59:015, Section 7	Pollutant N/A	Emission Limit (if applicable) N/A	Voluntary Emission Limit or Exemption (if applicable) N/A	during startup and shutdown.	Method of Determining Compliance with the Emission and Operating Requirement(s) Daramic will keep records of the manufacturer's recommended procedures for startup and shutdown, any instance in which the recommended procedures were not followed, and any corrective actions taken.
67, 68	R&D Pilot Lab Extractor	N/A	Hexane	N/A		and major source HAP requirements, the EP67, 68 shall not emit more than 9.0 tons per year of hexane.	Daramic will demonstrate compliance with this voluntary limit using the quantity of solvent consumed by the extractor system, which will be calculated based on solvent purchase records for the year discounted by the quantity of hexane contained in the waste shipped off-site for the same time period.
N/A	Site-Wide	N/A	Hexane	N/A		1 11 3 1 9	Daramic will demonstrate compliance with this voluntary limit by tracking hexane emissions from the extractor (EP67, 68) and the boiler (EP77).

Section V	Section V.2: Monitoring Requirements								
Emission	Emission Unit		Applicable Regulation or	Parameter					
Unit #	Unit # Description Pollutant Requirement Monitored Description of Monitoring								
	Not applicable for this application								

Section V	Section V.3: Recordkeeping Requirements								
Emission Unit #									
	Not applicable for this application								

Section V	Section V.4: Reporting Requirements								
Emission	Emission Unit		Applicable Regulation	Parameter					
Unit #	Unit # Description Pollutant or Requirement Reported Description of Reporting								
	Not applicable for this application								

Section V	Section V.5: Testing Requirements								
Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing				
	Not applicable for this application								

Section V.6: Notes, Comments, and Explanations

11/2018 DEP7007DD

Division for Air Quality 300 Sower Boulevard Frankfort, KY 40601 (502) 564-3999

DEP7007DD

Insignificant Activities

Section DD.1: Table of Insignificant Activities

___ Section DD.2: Signature Block

___ Section DD.3: Notes, Comments, and Explanations

Source Name: Daramic, LLC

KY EIS (AFS) #: 21-059-00006

Permit #: *V-16-052 R1*

Agency Interest (AI) ID: 894

Date: 12/31/2024

Section DD.1: Table of Insignificant Activities

*Identify each activity with a unique Insignificant Activity number (IA #); for example: 1, 2, 3... etc.

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions
1.	Conditioning Line (Unwind, Slitter, Chopper, Rewind)		401 KAR 59:010	<1 tpy PM
2.	Reinspection Line			Negligible
3.	R&D Pilot Lab Web Coater			<1 tpy VOC
4.	UV Lamps (2) and Conveyor Systems			<i>Negligible</i>
5.	R&D Pilot Lab Extruder		401 KAR 59:010	<1 tpy PM, < 1 tpy VOC
6.	R&D Pilot Lab Mix Room		401 KAR 59:010	<1 tpy PM, < 1 tpy VOC
7.	R&D Pilot Lab Web Coater (DGRF)			<1 tpy VOC
8.	Battery Lab Hoods (2) and Downdraft Table			<1 tpy VOC
9.	Analytical Lab Hoods (8)			Negligible
10.	Water Discharge Lagoon			Negligible
11.	Maintenance Welding			Negligible
12.	Maintenance Painting			Negligible

Section DD.2: Signature Block			
I, THE UNDERSIGNED, HEREBY CERTIFY UNDER PENALTY OF LAW, THAT I AM A RESPONSIBLE OFFICIAL, AND THAT I HAVE PERSONALLY EXAMINED, AND AM FAMILIAR WITH, THE INFORMATION SUBMITTED IN THIS DOCUMENT AND ALL ITS ATTACHMENTS. BASED ON MY INQUIRY OF THOSE INDIVIDUALS WITH PRIMARY RESPONSIBILITY FOR OBTAINING THE INFORMATION, I CERTIFY THAT THE INFORMATION IS ON KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE OR INCOMPLETE INFORMATION, INCLUDING THE POSSIBILITY OF FINE OR IMPRISONMENT.			
	Colo	12/30/3	1024
	Authorized Signature	Date	
By:	Eric Miller	Plant Mana	ger
,	Type/Print Name of Signatory	Title of Sign	atory

11/2018 DEP7007DD

Section DD.3: Notes, Comments, and Explanations

The DEP7007DD form submitted with this application represents the full list of Insignificant Activities associated with the R&D operations following the shutdown of full-scale production equipment.

The R&D Pilot Lab Extractor and associated carbon beds are being reclassified significant activities in Section B of the permit based on their potential VOC/hexane emissions.