Murakami Manufacturing U.S.A., Inc
575 Water Tower Bypass, Campbellsville, KY 42718
Phone: 270-469-3939
Fax: 270-469-4772

April 15, 2024

KY Dept. for Environmental Protection
Division for Air Quality
300 Sower Blvd, Second Floor
Frankfort, KY 40601

Re: Title V Renewal Application
Murakami Manufacturing USA, Inc.
Source ID#21-217-00039
Permit V-19-006

Enclosed you will find a Title V renewal application for Murakami Manufacturing USA, Inc. (Facility ID 21-217-00039). Murakami currently operates under permit number V-19-006.

This application has been submitted in the e-Forms portal and one hardcopy has also been submitted.

All required information should be included in this application. However, as questions may arise concerning this facility, please direct technical questions to me at (270) 469-3939, extension 263, or lbishop@murakami-usa.com.

Sincerely,

MURAKAMI MANUFACTURING USA, INC.

Lee Bishop
Environmental Health & Safety Manager

Enclosure

MUR02.G24013

TITLE V AIR PERMIT RENEWAL APPLICATION

FOR

Murakami Manufacturing USA, Inc.

575 Water Tower Bypass
Campbellsville, KY 42718

April 2024

Prepared for:

Murakami Manufacturing USA, Inc.
575 Water Tower Bypass
Campbellsville, KY 42718

Prepared by:

EHS TECHNOLOGY GROUP, LLC
2912 Springboro Road West, Suite 101
Dayton, OH 45439

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1.0 EXECUTIVE SUMMARY

EHS Technology Group, LLC (EHS) has prepared the following Title V renewal application for Murakami Manufacturing USA, Inc. (Murakami). Murakami manufactures plastic assemblies and housings for the automotive industry. Some of the plastic products are coated with primer and finishing coatings to color match the products to customer requirements.

Murakami is located at 575 Water Tower Bypass in Campbellsville (Taylor County). This facility is identified with Kentucky Division for Air Quality as Source ID 21-217-00039 and currently operates under Title V Permit V-19-006.

The current permit limits the facility to 225 tons per year (TPY) of VOC, 9.5 TPY of single HAP, and 23.75 TPY of total HAP. There have been changes at the facility that have decreased the facility's potential to emit, but Murakami continues to request a synthetic limit on VOC to avoid PSD rules and on HAP emissions to avoid applicability to the Plastic Parts Surface Coating MACT rule (40 CFR 63, PPPP). Updated potential to emit calculations are included with this application in Section 2.0 and reflect current operations.

Below is a list of changes to the facility since the last permit renewal:

1. One new plastic molding machine has been added to the facility to bring the total to 16 machines. These are listed as insignificant. Potential emissions have been updated and this activity remains insignificant.
2. One solvent recovery unit is being added to the facility. Potential emissions from this new activity have been calculated and it will qualify as insignificant. It has been added to the DEP7007DD form and emission calculations are included in this application for verification.

2.0 EMISSION CALCULATIONS

Murakami Manufacturing USA, Inc.
Title V Renewal Application
Updated 4/15/24

Summary of Facility-Wide Potential to Emit

Emission Point ID	Emission Unit ID	Process ID	Process Description	NOx	CO	SO2	PM	VOC	Lead	MIBK	Toluene	Ethyl benzene	Xylene	Methanol	Trichloro ethylene	Total HAP
				TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY	TPY
18	B1	MP10	Boiler #1 (Backup to #2)	3.45	2.90	0.02	0.26	0.19	1.72E-05	-	-	-	-	-	-	0.06
15	PC3	MP1	Primer Line 3	-	-	-	0.34	55.34	-	17.81	6.73	0.00	0.00	0.00	-	24.54
		MP2	Cleanup	-	-	-	0.00	12.37	-	0.03	0.02	0.00	0.01	0.43	-	0.49
16	BC3	MP3	Basecoat Line 3	-	-	-	0.57	59.92	-	0.00	3.22	0.08	0.30	0.03	-	3.63
		MP4	Cleanup	-	-	-	0.00	30.93	-	0.08	0.05	0.00	0.02	1.07	-	1.22
17	CC3	MP5	Clearcoat Line 3	-	-	-	0.78	50.93	-	0.00	0.00	0.03	0.15	0.00	-	0.18
		MP6	Cleanup	-	-	-	0.00	30.93	-	0.08	0.05	0.00	0.02	1.07	-	1.22
20	CO3	PL3/MP7	Curing Oven Line 3	0.06	0.05	3.65E-04	4.62E-03	3.34E-03	3.04E-07	-	-	-	-	-	-	1.14E-03
	CO4	PL3/MP8	Curing Oven Line 3	0.06	0.05	3.65E-04	4.62E-03	3.34E-03	3.04E-07	-	-	-	-	-	-	1.14E-03
22	CO5	PL3/MP9	Curing Oven Line 3	0.06	0.05	3.65E-04	4.62E-03	3.34E-03	3.04E-07	-	-	-	-	-	-	1.14E-03
	CO6	PL3/MP10	Curing Oven Line 3	0.06	0.05	3.65E-04	4.62E-03	3.34E-03	3.04E-07	-	-	-	-	-	-	1.14E-03
19	B2	PL3/MP11	Boiler #2	2.59	2.17	0.02	0.20	0.14	1.29E-05	-	-	-	-	-	-	0.05
05	Fire Pump	Fire Pump	Diesel Fire Pump Engine	0.93	0.20	0.06	0.07	0.08	-	-	-	-	-	-	-	-
Insignificant			Plastic Molding Machines	-	-	-	-	0.73	-	-	-	-	-	-	-	0.01
Insignificant			Mold Release	-	-	-	-	0.01	-	-	-	-	-	-	-	-
24	MC	MC	Mold Cleaner	-	-	-	-	1.17	-	-	-	-	-	-	1.02	1.02
Insignificant			Mold Lubricant	-	-	-	-	0.07	-	-	-	-	-	-	0.05	0.05
Insignificant			Mold Rust Preventive	-	-	-	-	0.06	-	-	-	-	-	-	0.04	0.04
Insignificant			Injection Molding Parts Wiping	-	-	-	-	0.16	-	-	-	-	-	-	-	-
Insignificant			Burn Off Oven	0.35	0.29	0.00	1.87	0.02	-	-	-	-	-	-	-	-
Insignificant			Solvent Recovery	-	-	-	-	0.34	-	-	-	-	-	-	-	-
Total				**7.56**	**5.77**	**0.10**	**4.11**	**243.40**	**3.14E-05**	**18.01**	**10.06**	**0.11**	**0.51**	**2.59**	**1.11**	**32.51**
Current Limit in Title V Permit				**-**	**-**	**-**	**-**	**225.00**	**-**	**9.50**	**9.50**	**9.50**	**9.50**	**9.50**	**9.50**	**23.75**

Murakami Manufacturing USA, Inc.
Title V Renewal Application
Updated 2-12-19

Line 3 Painting Operations

				Maximum Production		Maximum Throughput				Coating Data								
Emission Point ID	Emission Unit ID	Process ID	Process Description	Application Rate (gal/part)	Parts/Hr	Hourly (gal/hr)	Daily (gal/day)	Transfer Efficiency	Particulate Control Efficiency	Coating Density (lb/gal)	VOC Content (lb/gal)	Solids Content (% by wt)	MIBK (% by wt)	Toluene (% by wt)	Ethyl benzene (% by wt)	Xylene (% by wt)	Methanol (% by wt)	Total HAP Content (% by wt)
15	PC3	MP1	Grey Conductive Primer	0.00676	300	2.03	48.67	70%	90%	7.52	6.23	17.00%	26.67%	10.07%				36.74%
		MP2	Cleanup/Gun Purge (Superior)	-	-		10.00			6.80	6.78	0.00%	0.26%	0.15%		0.07%	3.44%	3.92%
16	BC3	MP3	Toyota Lt. Brown Metallic	0.0075	300	2.25	54.00	70%	90%	8.06	6.08	24.00%		4.05%	0.10%	0.38%	0.04%	4.57%
		MP4	Cleanup/Gun Purge (Superior)	-	-		25.00			6.80	6.78	0.00%	0.26%	0.15%		0.07%	3.44%	3.92%
17	CC3	MP5	Clearcoat 062	0.0073	300	2.19	52.56	70%	90%	7.98	5.31	34.00%			0.04%	0.20%		0.24%
		MP6	Cleanup/Gun Purge (Superior)	-	-		25.00			6.80	6.78	0.00%	0.26%	0.15%		0.07%	3.44%	3.92%

				Potential Emissions																	
Emission Point ID	Emission Unit ID	Process ID	Process Description	VOC (lb/hr)	VOC (lb/day)	VOC (TPY)	PM (lb/hr)	PM (TPY)	MIBK (lb/hr)	MIBK (TPY)	Toluene (lb/hr)	Toluene (TPY)	Ethyl benzene (lb/hr)	Ethyl benzene (TPY)	Xylene (lb/hr)	Xylene (TPY)	Methanol (lb/hr)	Methanol (TPY)	Total HAP (lb/hr)	Total HAP (lb/day)	Total HAP (TPY)
15	PC3	MP1	Grey Conductive Primer	12.63	303.23	55.34	0.08	0.34	4.07	17.81	1.54	6.73	0.00	0.00	0.00	0.00	0.00	0.00	5.60	134.47	24.54
		MP2	Cleanup/Gun Purge (Superior)	-	67.80	12.37	0.00	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.43	-	2.67	0.49
16	BC3	MP3	Toyota Lt. Brown Metallic	13.68	328.32	59.92	0.13	0.57	0.00	0.00	0.73	3.22	0.02	0.08	0.07	0.30	0.01	0.03	0.83	19.89	3.63
		MP4	Cleanup/Gun Purge (Superior)	-	169.50	30.93	0.00	0.00	0.00	0.08	0.00	0.05	0.00	0.00	0.00	0.02	0.00	1.07	-	6.66	1.22
17	CC3	MP5	Clearcoat 062	11.63	279.09	50.93	0.18	0.78	0.00	0.00	0.00	0.00	0.01	0.03	0.03	0.15	0.00	0.00	0.04	1.01	0.18
		MP6	Cleanup/Gun Purge (Superior)	-	169.50	30.93	0.00	0.00	0.00	0.08	0.00	0.05	0.00	0.00	0.00	0.02	0.00	1.07	-	6.66	1.22
			Total	**37.94**	**1317.44**	**240.43**	**0.39**	**1.69**	**4.07**	**18.01**	**2.27**	**10.06**	**0.03**	**0.11**	**0.10**	**0.51**	**0.01**	**2.59**	**6.47**	**171.36**	**31.27**

Murakami Manufacturing USA, Inc.
Title V Renewal Application
Updated 2-12-19

Natural Gas Combustion Activities
Emission Factors from AP-42 1.4
Fuel Type: Natural Gas
Heat Content: 1000 BTU/ft3
Maximum Operating Schedule: 8760 hrs/yr

Criteria Pollutant Emissions

				Rating		NOx Emission Factor		CO Emission Factor		SOx Emission Factor		PM Emission Factor		VOC Emission Factor		Lead Emission Factor		Firing Type	Applicable Regulation
Emission Point ID	Emission Unit ID	Process ID	Process Description	**MMBTU/hr**	**MMCF/hr**	100	lb/MMCF	84	lb/MMCF	0.6	lb/MMCF	7.6	lb/MMCF	5.5	lb/MMCF	0.0005	lb/MMCF		
						lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY		
18	B1	MP10	Boiler #1 (Backup to Boiler #2)	7.88	0.008	0.79	3.45	0.66	2.90	0.00	0.02	0.06	0.26	0.04	0.19	3.94E-06	1.72E-05	Indirect	59:015
20	CO3	PL3/MP7	Curing Oven Line 3	0.14	0.0001	0.01	0.06	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	6.94E-08	3.04E-07	Indirect	59:015
	CO4	PL3/MP8	Curing Oven Line 3	0.14	0.0001	0.01	0.06	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	6.94E-08	3.04E-07	Indirect	59:015
22	CO5	PL3/MP9	Curing Oven Line 3	0.14	0.0001	0.01	0.06	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	6.94E-08	3.04E-07	Indirect	59:015
	CO6	PL3/MP10	Curing Oven Line 3	0.14	0.0001	0.01	0.06	0.01	0.05	0.00	0.00	0.00	0.00	0.00	0.00	6.94E-08	3.04E-07	Indirect	59:015
19	B2	PL3/MP11	Boiler #2	5.91	0.006	0.59	2.59	0.50	2.17	0.00	0.02	0.04	0.20	0.03	0.14	2.95E-06	1.29E-05	Indirect	59:015
Total						**1.43**	**6.28**	**1.20**	**5.28**	**0.01**	**0.04**	**0.11**	**0.48**	**0.08**	**0.35**	**7.17E-06**	**3.14E-05**		

HAP Emissions

				Rating		Benzene Emission Factor		Dichlorobenzene Emission Factor		Formaldehyde Emission Factor		Hexane Emission Factor		Naphthalene Emission Factor		Toluene Emission Factor		Total HAP	
Emission Point ID	Emission Unit ID	Process ID	Process Description	**MMBTU/hr**	**MMCF/hr**	0.0021	lb/MMCF	0.0012	lb/MMCF	0.075	lb/MMCF	1.8	lb/MMCF	0.0006	lb/MMCF	0.0034	lb/MMCF		
						lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY	lb/hr	TPY
18	B1	MP10	Boiler #1 (Backup to Boiler #2)	7.88	0.008	1.65E-05	7.24E-05	9.45E-06	4.14E-05	5.91E-04	2.59E-03	1.42E-02	6.21E-02	4.73E-06	2.07E-05	2.68E-05	1.17E-04	1.48E-02	6.49E-02
20	CO3	PL3/MP7	Curing Oven Line 3	0.14	0.0001	2.92E-07	1.28E-06	1.67E-07	7.30E-07	1.04E-05	4.56E-05	2.50E-04	1.09E-03	8.33E-08	3.65E-07	4.72E-07	2.07E-06	2.61E-04	1.14E-03
	CO4	PL3/MP8	Curing Oven Line 3	0.14	0.0001	2.92E-07	1.28E-06	1.67E-07	7.30E-07	1.04E-05	4.56E-05	2.50E-04	1.09E-03	8.33E-08	3.65E-07	4.72E-07	2.07E-06	2.61E-04	1.14E-03
22	CO5	PL3/MP9	Curing Oven Line 3	0.14	0.0001	2.92E-07	1.28E-06	1.67E-07	7.30E-07	1.04E-05	4.56E-05	2.50E-04	1.09E-03	8.33E-08	3.65E-07	4.72E-07	2.07E-06	2.61E-04	1.14E-03
	CO6	PL3/MP10	Curing Oven Line 3	0.14	0.0001	2.92E-07	1.28E-06	1.67E-07	7.30E-07	1.04E-05	4.56E-05	2.50E-04	1.09E-03	8.33E-08	3.65E-07	4.72E-07	2.07E-06	2.61E-04	1.14E-03
19	B2	PL3/MP11	Boiler #2	5.91	0.006	1.24E-05	5.43E-05	7.09E-06	3.11E-05	4.43E-04	1.94E-03	1.06E-02	4.66E-02	3.54E-06	1.55E-05	2.01E-05	8.80E-05	1.11E-02	4.87E-02
Total						**3.01E-05**	**1.32E-04**	**1.72E-05**	**7.54E-05**	**1.08E-03**	**4.71E-03**	**2.58E-02**	**1.13E-01**	**8.60E-06**	**3.77E-05**	**4.88E-05**	**2.14E-04**	**2.70E-02**	**1.18E-01**

Murakami Manufacturing USA, Inc.
Title V Renewal Application
Updated 4-15-24

Mold Release

Material Used:	Pure Eze	
VOC Content:	60%	
HAP Content:	0%	
Usage:	0.002	lb/hr
VOC Emission:	0.0012	lb/hr
	0.005	TPY

Mold Lubricant

Material Used:	Super Grease	
VOC Content:	77%	
HAP Content:	60%	trichloroethylene
Usage:	0.0205	lb/hr
VOC Emission:	0.0158	lb/hr
	0.07	TPY
HAP Emission:	0.01	lb/hr
	0.05	TPY

Injection Molding Parts Wiping

Material Used:	T300 (Isopropyl Alcohol)	
VOC Content:	100%	
HAP Content:	0%	
Usage:	0.0359	lb/hr
VOC Emission:	0.0359	lb/hr
	0.16	TPY

Mold Rust Preventive

Material Used:	Slide Mold Shield	
VOC Content:	91%	
HAP Content:	60%	trichloroethylene
Usage:	0.0144	lb/hr
VOC Emission:	0.0131	lb/hr
	0.06	TPY
HAP Emission:	0.0086	lb/hr
	0.04	TPY

Murakami Manufacturing USA, Inc.

Plastic Injection Molding

Updated 4-2-24

Process Throughput (lb/hr)	100
Process Throughput (1000 lb/hr)	0.1

	Factor	One Injection Molding Machine			16 Mold Injection Machines Combined		
Potential Emissions	(lb/million lb)*	(lb/hr)	lb/day	(TPY)	(lb/hr)	(lb/day)	(TPY)
VOC (Process)	104	0.01	0.25	0.05	0.17	3.99	0.73
Formaldehyde	0.74	0.00	0.00	0.00	1.18E-03	2.84E-02	5.19E-03
Acrolein	0.01	0.00	0.00	0.00	1.60E-05	3.84E-04	7.01E-05
Acetaldehyde	0.46	0.00	0.00	0.00	7.36E-04	1.77E-02	3.22E-03
Propionaldehyde	0.05	0.00	0.00	0.00	8.00E-05	1.92E-03	3.50E-04
Acrylic Acid	0.08	0.00	0.00	0.00	1.28E-04	3.07E-03	5.61E-04

*Emission factors are from Air & Waste Management Association Journal, Volume 49, Jan 1999, "Development of Emission Factors for Polypropylene Processing", Table 5 for extrusion of controlled rheology homopolymer at melt temp of 400°F.

Murakami Manufacturing USA, Inc.
Title V Renewal Application

Mold Cleaner (non-insignificant based on HAP > 0.5 TPY)

Material Used:	Slide Mold Cleaner 3	
VOC Content:	100%	
HAP Content:	87%	trichloroethylene
Usage:	195.00	lb/mo
VOC Emission:	195.00	lb/mo
	1.17	TPY
HAP Emission:	169.46	lb/mo
	1.02	TPY

Murakami Manufacturing USA, Inc.
Title V Renewal Application
Fire Pump Emission Calculations

Reciprocating Internal Combustion Engines - Diesel Fuel
This diesel-fired engine is for emergency use only and is compliant with 40 CFR Part 63, Subpart ZZZZ

Emissions calculated based on output rating (hp)

Output Horsepower Rating (hp)	120.0
Maximum Hours Operated per Year	500
Potential Throughput (hp-hr/yr)	60,000

	Pollutant						
	PM*	PM10*	direct PM2.5*	SO2	NOx	VOC	CO
Emission Factor in lb/hp-hr	0.0022	0.0022	0.0022	0.0021	0.0310	0.0025	0.0067
Potential Emission in tons/yr	0.07	0.07	0.07	0.06	0.93	0.08	0.20

Methodology
Emission Factors are from AP42 (Supplement B 10/96), Tables 3.3-1 and 3.3-2
*PM and $PM_{2.5}$ emission factors are assumed to be equivalent to PM_{10} emission factors. No information was given regarding which method was used to
Potential Throughput (hp-hr/yr) = [Output Horsepower Rating (hp)] * [Maximum Hours Operated per Year]
Potential Emission (tons/yr) = [Potential Throughput (hp-hr/yr)] * [Emission Factor (lb/hp-hr)] / [2,000 lb/ton]

Murakami Manufacturing
Emissions - Burn-Off Oven

Process Emissions

Equipment ID:	Burn-Off Oven	
Maximum Batch Load:	374	lbs/batch
Batch Time:	4	hour
Maximum Operating Schedule:	1	batch/day
	1460	hrs/yr

Pollutant	Emission Factor (lbs PE/ lb material charged)	Maximum Emissions (each) lbs/hr	TPY	Emission Factor Basis
PM/PM10	0.027	2.52	1.84	Study from Manufacturer

Fuel Burning Emissions

Equipment ID:	Burn-Off Oven	
Fuel Type:	Natural Gas	
Heat Content:	1000	
Rated Capacity:	0.8	MMBTU/hr
Maximum Operating Schedule:	8760	hrs/yr
Max Hourly Operating Rate:	800	ft^3/hr
Max Annual Operating Rate:	7,008,000	ft^3/yr

Pollutant	Emission Factor ($lbs/10^6$ scf)	Maximum Emissions (each) lbs/hr	TPY	Emission Factor Basis
NOx	100	0.08	0.35	USEPA AP-42 Section 1.4 (7/98)
CO	84	0.07	0.29	USEPA AP-42 Section 1.4 (7/98)
SOx	0.6	0.000	0.002	USEPA AP-42 Section 1.4 (7/98)
PM/PM10	7.6	0.01	0.03	USEPA AP-42 Section 1.4 (7/98)
OC	5.5	0.00	0.02	USEPA AP-42 Section 1.4 (7/98)

Total Emissions

Hourly:

	Burn-Off Oven (lb/hr)
PM10	
Process	2.52
Fuel Combustion	0.01
TOTAL	**2.53**
NOx	**0.08**
CO	**0.07**
OC	**0.00**

Annual:

	Burn-Off Oven (TPY)
PM10	
Process	1.84
Fuel Combustion	0.03
TOTAL	**1.87**
NOx	**0.35**
CO	**0.29**
OC	**0.02**

The heat in the oven thermally decomposes the organic residues in the coating to smoke and volatile gases. The smoke and gases are drawn into the secondary chamber where they are completely burned such that the discharge is primarily water vapor and carbon dioxide as the products of combustion. Inorganic materials from the paint remain in the burnoff oven as ash.

The above emission factor assumes that all residue burned off becomes air emission since the ratio of ash to air emission is unknown.

The oven is for cleaning of facility equipment (paint jigs) only, not for production. There is not a need for cleaning any jigs more than one batch per day so there is an inherent physical limitation of one batch per day.

Murakami Manufacturing USA, Inc.
Title V Renewal Application
Addition of Solvent Recovery Operation

Process Information

20	liters/hr	60	l/batch - batch is 3 hr minimum
3.785	l/gal	40	m3/min exhaust
5.284016	gal/hr	80-90%	recovery rate
7.34	lb/gal - typical density of solvent		
38.78468	lb/hr		

Emissions Calculation

AP-42 4.7 Waste Solvent Reclamation

	lb/ton	
Storage tank vent	0.02	
Condenser vent	3.3	
Fugitive emissions - loading	0.72	
Total emissions	4.04	lb/ton emission factor

VOC Emissions:	0.08	lb/hr
	0.34	TPY

3.0 DEP 7007AI ADMINISTRATIVE INFORMATION

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007AI

Administrative Information

___ Section AI.1: Source Information

___ Section AI.2: Applicant Information

___ Section AI.3: Owner Information

___ Section AI.4: Type of Application

___ Section AI.5: Other Required Information

___ Section AI.6: Signature Block

___ Section AI.7: Notes, Comments, and Explanations

Additional Documentation

___ Additional Documentation attached

Source Name: **Murakami Manufacturing USA, Inc.**

KY EIS (AFS) #: **21- 217-00039**

Permit #: **V-19-006**

Agency Interest (AI) ID: **4303**

Date: **4/15/2024**

Section AI.1: Source Information

Physical Location Address:	**Street:**	575 Water Tower Bypass				
	City:	Campbellsville	**County:**	Taylor	**Zip Code:**	42718
Mailing Address:	**Street or P.O. Box:**	(same)				
	City:		**State:**		**Zip Code:**	

Standard Coordinates for Source Physical Location

Longitude: 37.341111 (decimal degrees) **Latitude:** -85.322778 (decimal degrees)

Primary (NAICS) Category: Other Motor Vehicle Parts Manufacturing **Primary NAICS #:** 336390

#

Classification (SIC) Category: Motor Vehicle Parts & Accessories **Primary SIC #:** 3714

Briefly discuss the type of business conducted at this site: Injecting molding, painting, and assembly of automotive plastic parts.

Description of Area Surrounding Source: ☐ Rural Area ☑ Industrial Park ☐ Residential Area ☐ Urban Area ☐ Industrial Area ☐ Commercial Area

Is any part of the source located on federal land? ☐ Yes ☑ No

Number of Employees: 300

Approximate distance to nearest residence or commercial property: *430 ft to residence*

Property Area: **20 acres**

Is this source portable? ☐ Yes ☑ No

What other environmental permits or registrations does this source currently hold or need to obtain in Kentucky?

NPDES/KPDES:	☑ Currently Hold	☐ Need	☐ N/A
Solid Waste:	☐ Currently Hold	☐ Need	☑ N/A
RCRA:	☑ Currently Hold	☐ Need	☐ N/A
UST:	☐ Currently Hold	☐ Need	☑ N/A

Type of Regulated Waste Activity:

☐ Mixed Waste Generator ☑ Generator ☑ Recycler ☐ Other: _____

☐ U.S. Importer of Hazardous Waste ☐ Transporter ☐ Treatment/Storage/Disposal Facility ☐ N/A

Section AI.2: Applicant Information

Applicant Name: Murakami Manufacturing USA, Inc.

Title: (if individual)

Mailing Address: **Street or P.O. Box:** 575 Water Tower Bypass
City: Campbellsville **State:** Kentucky **Zip Code:** 42718

Email: (if individual)

Phone: (270) 469-3939

Technical Contact

Name: Lee Bishop

Title: Environmental, Health, & Safety Manager

Mailing Address: **Street or P.O. Box:** 575 Water Tower Bypass
City: Campbellsville **State:** KY **Zip Code:** 42718

Email: lbishop@muramami-usa.com

Phone: (270) 469-3939 x263

Air Permit Contact for Source

Name: same as technical contact

Title:

Mailing Address: **Street or P.O. Box:**
City: **State:** **Zip Code:**

Email:

Phone:

Section AI.3: Owner Information

☑ **Owner same as applicant**

Name: _____

Title: _____

Mailing Address: **Street or P.O. Box:** _____

City: _____ **State:** _____ **Zip Code:** _____

Email: _____

Phone: _____

List names of owners and officers of the company who have an interest in the company of 5% or more.

Name	Position

Section AI.4: Type of Application

Current Status: ☑ Title V ☐ Conditional Major ☐ State-Origin ☐ General Permit ☐ Registration ☐ None

Requested Action: *(check all that apply)*

☐ Name Change	☐ Initial Registration	☐ Significant Revision	☐ Administrative Permit Amendment
☑ Renewal Permit	☐ Revised Registration	☑ Minor Revision	☐ Initial Source-wide OperatingPermit
☐ 502(b)(10)Change	☐ Extension Request	☐ Addition of New Facility	☐ Portable Plant Relocation Notice
☐ Revision	☐ Off Permit Change	☐ Landfill Alternate Compliance Submittal	☐ Modification of Existing Facilities
☐ Ownership Change	☐ Closure		

Requested Status: ☑ Title V ☐ Conditional Major ☐ State-Origin ☐ PSD ☐ NSR ☐ Other: _____

Is the source requesting a limitation of potential emissions? ☑ Yes ☐ No

Pollutant:	Requested Limit:	Pollutant:	Requested Limit:
☐ Particulate Matter		☑ Single HAP	9.5 TPY
☑ Volatile Organic Compounds (VOC)	225 TPY	☑ Combined HAPs	23.75 TPY
☐ Carbon Monoxide		☐ Air Toxics (40 CFR 68, Subpart F)	
☐ Nitrogen Oxides		☐ Carbon Dioxide	
☐ Sulfur Dioxide		☐ Greenhouse Gases (GHG)	
☐ Lead		☐ Other	

For New Construction:

Proposed Start Date of Construction: *(MM/YYYY)* _____

Proposed Operation Start-Up Date: *(MM/YYYY)* _____

For Modifications:

Proposed Start Date of Modification: *(MM/YYYY)* _____

Proposed Operation Start-Up Date: *(MM/YYYY)* _____

Applicant is seeking coverage under a permit shield. ☑ **Yes** ☐ **No**

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 documents attached as part of this application:

- ☐ DEP7007A Indirect Heat Exchangers and Turbines
- ☐ DEP7007B Manufacturing or Processing Operations
- ☐ DEP7007C Incinerators and Waste Burners
- ☐ DEP7007F Episode Standby Plan
- ☐ DEP7007J Volatile Liquid Storage
- ☑ DEP7007K Surface Coating or Printing Operations
- ☐ DEP7007L Mineral Processes
- ☐ DEP7007M Metal Cleaning Degreasers
- ☑ DEP7007N Source Emissions Profile
- ☐ DEP7007P Perchloroethylene Dry Cleaning Systems
- ☐ DEP7007R Emission Offset Credit
- ☐ DEP7007S Service Stations
- ☐ DEP7007T Metal Plating and Surface Treatment Operations
- ☑ DEP7007V Applicable Requirements and Compliance Activities
- ☐ DEP7007Y Good Engineering Practice and Stack Height Determination
- ☐ DEP7007AA Compliance Schedule for Non-complying Emission Units
- ☐ DEP7007BB Certified Progress Report
- ☐ DEP7007CC Compliance Certification
- ☑ DEP7007DD Insignificant Activities
- ☐ DEP7007EE Internal Combustion Engines
- ☐ DEP7007FF Secondary Aluminum Processing
- ☐ DEP7007GG Control Equipment
- ☐ DEP7007HH Haul Roads
- ☐ Confidentiality Claim
- ☐ Ownership Change Form
- ☐ Secretary of State Certificate
- ☐ Flowcharts or diagrams depicting process
- ☐ Digital Line Graphs (DLG) files of buldings, roads, etc.
- ☐ Site Map
- ☐ Map or drawing depicting location of facility
- ☐ Safety Data Sheet (SDS)
- ☐ Emergency Response Plan
- ☐ Other: _____

Section AI.6: 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.

Angie Miller
Authorized Signature

4-15-2024
Date

Angie Miller
Type or Printed Name of Signatory

General Manager of Administration
Title of Signatory

*Responsible official as defined by 401 KAR 52:001.

Section AI.7: Notes, Comments, and Explanations

4.0 DEP 7007V APPLICABLE REQUIREMENTS AND COMPLIANCE ACTIVITIES

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

DEP7007V

Applicable Requirements and Compliance Activities

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

___ Section V.2: Monitoring Requirements

___ Section V.3: Recordkeeping Requirements

___ Section V.4: Reporting Requirements

___ Section V.5: Testing Requirements

___ Section V.6: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI

Source Name: **Murakami Manufacturing USA, Inc.**

KY EIS (AFS) #: **21-** **217-00039**

Permit #: **V-19-006**

Agency Interest (AI) II **4303**

Date: **4/15/2024**

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

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
Facility Wide	Facility Wide	401 KAR 52:020	VOC Single HAP Total HAP	225 TPY 9.5 TPY 23.75 TPY	voluntary	NA	Records of monthly throughput and calculations using appropriate VOC or HAP content
Facility Wide	Facility Wide	401 KAR 59:010	opacity	<20% opacity all stacks	NA	NA	visible emissions observed weekly
03	Paint Line 3 (PL3)	401 KAR 50:012 401 KAR 59:010 401 KAR 59:015 401 KAR 63:020	PM	2.34 lb/hr	NA	- particulate matter control overspray - usage of materials not to exceed emission limits	- monthly fuel usage (natural gas only) - weekly visible emissions - monthly usage of materials and emissions

Emission Unit #	Emission Unit Description	Applicable Regulation or Requirement	Pollutant	Emission Limit (if applicable)	Voluntary Emission Limit or Exemption (if applicable)	Operating Requirement or Limitation (if applicable)	Method of Determining Compliance with the Emission and Operating Requirement(s)
04	Mold Cleaner	401 KAR 50:012 401 KAR 63:020	same as facility-wide	same as facility-wide	NA	- usage of materials not to exceed emission limits	- monthly usage of materials and emissions
05	Fire Pump	401 KAR 63:002 Section 2(4)(eeee) 40 CFR Part 63 Subpart ZZZZ	HAP	NA	NA	-applicable work practice standards	- records of hours of operation and work practice as required in standard

Section V.2: Monitoring Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Monitored	Description of Monitoring
Facility Wide			Nothing in addition to the parameters already shown in V.1		
Facility Wide			Nothing in addition to the parameters already shown in V.1		
03			Nothing in addition to the parameters already shown in V.1		
04			Nothing in addition to the parameters already shown in V.1		
05			Nothing in addition to the parameters already shown in V.1		

Section V.3: Recordkeeping Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Recorded	Description of Recordkeeping
	Nothing in addition to the parameters already shown in V.1 monitoring				

Section V.4: Reporting Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Reported	Description of Reporting
Facility Wide	Facility Wide	VOC Single HAP Total HAP	401 KAR 52:020	VOC and HAP emissions	semi-annual summary of rolling 12-months
Facility Wide	Facility Wide	opacity	401 KAR 59:010	deviations	semi-annual report
03	Paint Line 3 (PL3)	PM	401 KAR 50:012 401 KAR 59:010 401 KAR 59:015 401 KAR 63:020	NA for PM VOC and HAP emissions deviations	semi-annual summary of rolling 12-months
04	Mold Cleaner	same as facility-wide	401 KAR 50:012 401 KAR 63:020	deviations	semi-annual report
05	Fire Pump	HAP	401 KAR 63:002 Section 2(4)(eeee) 40 CFR Part 63 Subpart ZZZZ	deviations	semi-annual report

Section V.5: Testing Requirements

Emission Unit #	Emission Unit Description	Pollutant	Applicable Regulation or Requirement	Parameter Tested	Description of Testing
	No testing requirements to be listed				

Section V.6: Notes, Comments, and Explanations

5.0 DEP7007K SURFACE COATING

DEP7007K

Surface Coating or Printing Operations

Division for Air Quality

300 Sower Boulevard

Frankfort, KY 40601

(502) 564-3999

__ Section K.1: Process Information

__ Section K.2: Coating Operations

__ Section K.3: Other Operations

__ Section K.4: Coatings/Printing Materials as Applied

__ Section K.5: HAP-containing Coatings/Printing Materials

__ Section K.6: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.

___ Attach SDS or Technical Sheets for all Coating/Printing Materials

___ Attach a flow diagram

Source Name: **Murakami Manaufacturing USA, Inc.**

KY EIS (AFS) #: **21- 217-00039**

Permit #: **V-19-006**

Agency Interest (AI) ID: **4303**

Date: **4/15/2024**

Section K.1: Process Information

Emission Unit #: PL3

Emission Unit Name: Emission Point #3 (PL3)

Coating/Printing Line Name: Paint Line #3

Proposed/Actual Date of Construction: *(MM/YYYY)* 3/1/2008

List Applicable Regulations: 401 KAR 50:012, 401 KAR 59:010, 401 KAR 59:015, 401 KAR 63:020

Describe Overall Process: Painting of plastic automotive parts in 3 paint booths

Describe Coatings/Printing Materials: Primer, Basecoat, Clearcoat, Cleaning Solvents

Identify the Material that is Coated/Printed: ☐ Metal ☐ Vinyl ☑ Plastics ☐ Wood ☐ Foil ☐ Paper ☐ Other Substrate

Provide detailed description of material coated/printed: plastic automotive assemblies and housings

Provide approximate dimensions and range of sizes of parts being coated or printed: varies

Identify the Type of Operation: ☑ Continuous ☐ Batch ☐ Other:

Describe Surface Preparation/Pretreatment Steps:

For Coating Operations: ☑ Spray ☐ Flow ☐ Dip tank ☐ Electrodeposition ☐ Brush ☐ Powder ☐ Roller Coat ☐ Other:

For Printing Operations: *(Select all that apply)* ☐ Web ☐ Rotogravure ☐ Heatset ☐ Lithographic ☐ Sheetfed ☑ Letterpress ☐ Non-heatset ☐ Flexographic ☐ Other:

Describe Final Product: painted automotive plastic parts

Check the category that most closely describes this unit:

☐ Large Appliance Coating ☐ Auto or Light-Duty Truck Coating ☐ Metal Furniture Coating ☐ Metal Coil Coating

☐ Beverage Can Coating ☐ Miscellaneious Metal Parts Coating ☐ Magnet Wire Insulation Coating ☐ Flat Wood Panel Coating

☐ Fabric, Vinyl, or Paper Coating ☐ Boat Manufacturing/ Ship Repair ☐ Pressure Sensitive Tape and Label Coating ☐ Magnet Tape Coating

☐ Publication Rotogravure Printing ☐ Coating of Plastic Parts for Business Machines ☐ Flexible Vinyl and Urethane Coating and Printing

☐ Graphic Arts using Rotogravure and Flexographic Printing ☐ Other: _____

Section K.2: Coating Operations

K.2A: For Spray Coating

Gun/Booth ID	Describe Function	Type	Mode	Maximum Design Application Rate *(gal/hr or lb/hr)*		Describe how maximum rate was determined
PC3	Primer (air atomization)	☐ Conventional Air Gun ☐ Airless ☐ HVLP ☐ Electrostatic ☐ LVLP ☐ Aerosol Spray Can ☑ Other	☐ Manual ☑ Automatic	2.03	gal/hr	☐ Testing ☐ Equipment Specification Sheet ☑ Estimation
BC3	Basecoat (air atomization)	☐ Conventional Air Gun ☐ Airless ☐ HVLP ☐ Electrostatic ☐ LVLP ☐ Aerosol Spray Can ☑ Other	☐ Manual ☑ Automatic	2.25	gal/hr	☐ Testing ☐ Equipment Specification Sheet ☑ Estimation
CC3	Clearcoat (air atomization)	☐ Conventional Air Gun ☐ Airless ☐ HVLP ☐ Electrostatic ☐ LVLP ☐ Aerosol Spray Can ☑ Other	☐ Manual ☑ Automatic	2.19	gal/hr	☐ Testing ☐ Equipment Specification Sheet ☑ Estimation

If spray guns are used simultaneously, describe:	All booths can be used simultaneously, 4 automatic guns per booth, manual touch up

K.2B: For Brush Coating

Describe Function:	
Maximum Coating Application Rate: *(gal/hr)*	

K.2C: For Roller Coating

Roller Coat ID	Describe Function	Maximum Coating Application Rate *(gal/hr)*	Describe how maximum rate was determined
			☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
			☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
			☐ Testing ☐ Estimation ☐ Equipment Specification Sheet

K.2D: For Powder Coating

Powder Coat ID	Describe Function	Maximum Coating Application Rate *(gal/hr or lb/hr)*		Describe how maximum rate was determined
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet

If powder coating material is recycled, describe:	

K.2E: For Flow Coating

Flow Coat ID	Describe Function	Maximum Coating Application Rate *(gal/hr or lb/hr)*		Describe how maximum rate was determined
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet

K.2F: For Dip Tank/Electrodeposition Coating

Tank ID	Describe Function	Maximum Make-up Rate *(gal/hr or lb/hr)*		Describe how maximum rate was determined
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet
				☐ Testing ☐ Estimation ☐ Equipment Specification Sheet

Section K.3: Other Operations

K.3A: For Finishing

Describe Finishing Processes: *Complete Form DEP7007B as applicable*	

K.3B: For Curing/Drying

Describe Curing/Drying Processes:	Description	Rated Capacity *(MMBtu/hr)*	Fuel	Control Device/Stack ID
Curing Ovens #1-#4	natural gas fired curing ovens	0.14 MMBTU/hr each	natural gas	Stacks 20, 21,

K.3C: For Purge

Type: gun purge

Daily Usage: 10 (PC3), 25 (BC3), 25 (CC3) (includes cleanup below) gal/day

K.3D: For Clean-up

Type: ☐ Manual ☐ Automatic

Daily Usage: see above hrs/day

Operating Hours:

K.3E: For Other Equipment

Describe Processes:	

Section K.4: Coatings/Printing Materials As Applied

Include SDS or Technical Sheets for all coating/printing materials used.

Trade Name of Material	Description *(Identify as coating, ink, fountain solution, blanket wash, cleaning solvent, thinning solvent, auto wash, manual wash, etc.)*	Emission Unit/Coating ID where material is used	SCC Code	SCC Code Units	Density *(lb/gal)*	Solid Content *(lb/gal)*	VOC Content *(lb/gal)*	Emission Factor for PM* *(lb/SCC)*	Transfer Efficiency *(%)*	Emission Factor for VOC *(lb/SCC)*	Capture Efficiency *(%)*	Control Device/ Stack ID
see emissions calculations												

**Emission factor for particulate matter (PM) should not include transfer efficiency.*

Section K.5: Hazardous Air Pollutant-containing Coatings/Printing Materials

List each individual hazardous air pollutant (HAP) contained in each material.

Trade Name of Material	HAP Name	HAP CAS #	Identify Solid (*S*) or Volatile (*V*)	HAP % by weight	HAP Emission Factor *(lb/SCC)*	Control Device/ Stack ID
see emissions calculations						

Section K.6: Notes, Comments, and Explanations

6.0 DEP 7007B MANUFACTURING OR PROCESSING OPERATIONS

Division for Air Quality

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

DEP7007B

Manufacturing or Processing Operations

___ Section B.1: Process Information
___ Section B.2: Materials and Fuel Information
___ Section B.3: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI, DEP7007N, DEP7007V, and DEP7007GG.
___ Attach a flow diagram
___ Attach SDS

Source Name: **Murakami Manufacturing USA, Inc.**
KY EIS (AFS) #: **21- 217-00039**
Permit #: **V-19-006**
Agency Interest (AI) ID: **4303**
Date: **4/15/2024**

Section B.1: Process Information

Emission Unit #	Emission Unit Name	Describe Emission Unit	Process ID	Process Name	Manufacturer	Model No.	Proposed/Actual Date of Construction Commencement *(MM/YYYY)*	Is the Process Continuous or Batch?	Number of Batches per 24 Hours *(if applicable)*	Hours per Batch *(if applicable)*
04	Mold Cleaner						05/2004	batch cleaning		
05	Fire Pump Engine	Diesel					01/2001			

Emission Unit #	Emission Unit Name	Describe Emission Unit	Process ID	Process Name	Manufacturer	Model No.	Proposed/Actual Date of Construction Commencement *(MM/YYYY)*	Is the Process Continuous or Batch?	Number of Batches per 24 Hours *(if applicable)*	Hours per Batch *(if applicable)*

Section B.2: Materials and Fuel Information

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

Emission Unit #	Emission Unit Name	Name of Raw Materials Input	Maximum Quantity of Each Raw Material Input		Total Process Weight Rate for Emission Unit *(tons/hr)*	Name of Finished Materials	Maximum Quantity of Each Finished Material Output		Fuel Type	Maximum Hourly Fuel Usage Rate		Maximum Yearly Fuel Usage Rate		Sulfur Content *(%)*	Ash Content *(%)*
				(Specify Units/hr)				*(Specify Units/hr)*			*(Specify Units)*		*(Specify Units)*		
04	Mold Cleaner	Mold Cleaner	0.2671	gal/hr											
05	Fire Pump Engine	diesel	120	bhp											

Emission Unit #	Emission Unit Name	Name of Raw Materials Input	Maximum Quantity of Each Raw Material Input		Total Process Weight Rate for Emission Unit *(tons/hr)*	Name of Finished Materials	Maximum Quantity of Each Finished Material Output		Fuel Type	Maximum Hourly Fuel Usage Rate		Maximum Yearly Fuel Usage Rate		Sulfur Content *(%)*	Ash Content *(%)*
				(Specify Units/hr)				*(Specify Units/hr)*			*(Specify Units)*		*(Specify Units)*		

Section B.3: Notes, Comments, and Explanations

7.0 DEP7007N SOURCE EMISSIONS PROFILE

Division for Air Quality

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

DEP7007N

Source Emissions Profile

__ Section N.1: Emission Summary
__ Section N.2: Stack Information
__ Section N.3: Fugitive Information
__ Section N.4: Notes, Comments, and Explanations

Additional Documentation

___ Complete DEP7007AI

Source Name: Murakami Manufacturing USA, Inc.
KY EIS (AFS) #: 21- 217-00039
Permit #: V-19-006
Agency Interest (AI) ID: 4303
Date: 4/15/2024

N.1: Emission Summary

Emission Unit #	Emission Unit Name	Process ID	Process Name	Control Device Name	Control Device ID	Stack ID	Maximum Design Capacity *(SCC Units/hour)*	Pollutant	Uncontrolled Emission Factor *(lb/SCC Units)*	Emission Factor Source (e.g. AP-42, Stack Test, Mass Balance)	Capture Efficiency *(%)*	Control Efficiency *(%)*	Hourly Emissions		Annual Emissions	
													Uncontrolled Potential *(lb/hr)*	Controlled Potential *(lb/hr)*	Uncontrolled Potential *(tons/yr)*	Controlled Potential *(tons/yr)*
PL3	Paint Line 3	MP1 MP2 (PC3)	Coating /Cleaning	Water Wall		15	2.03 gal/hr paint	VOC/HAP		mass balance		90.00%	see calcs			
PL3	Paint Line 3	MP3 MP4 (BC3)	Coating /Cleaning	Water Wall		16	2.25 gal/hr paint	VOC/HAP		mass balance		90.00%	see calcs			
PL3	Paint Line 3	MP5 MP6 (CC3)	Coating /Cleaning	Water Wall		17	2.19 gal/hr paint	VOC/HAP		mass balance		90.00%	see calcs			
PL3	Paint Line 3	MP7 MP8	Curing Ovens			20	0.14 MMBTU/hr x 2	prod of comb		AP-42			see calcs			
PL4	Paint Line 3	MP9 MP10	Curing Ovens			22	0.14 MMBTU/hr x 2	prod of comb		AP-42			see calcs			
PL3	Paint Line 3	MP11	Boiler #2				5.91 MMBTU/hr	prod of comb		AP-42			see calcs			
PL3	Paint Line 3	MP12	Boiler #1				7.88 MMBTU/hr	prod of comb		AP-42			see calcs			
04	Mold Cleaner						0.2055 lb/hr	VOC/HAP		mass balance			see calcs			
05	Fire Pump						120 bhp	prod of comb		AP-42			see calcs			

Section N.2: Stack Information

UTM Zone:

Stack ID	Identify all Emission Units (with Process ID) and Control Devices that Feed to Stack	Stack Physical Data			Stack UTM Coordinates		Stack Gas Stream Data		
		Equivalent Diameter *(ft)*	Height *(ft)*	Base Elevation *(ft)*	Northing *(m)*	Easting *(m)*	Flowrate *(acfm)*	Temperature *(° F)*	Exit Velocity *(ft/sec)*
15	PL3 Primer	2	35	870			9200	72	48.83
16	PL3 Basecoat	2	35	870			9200	72	48.83
17	PL3 Clearcoat	2	35	870			9200	72	48.83
20	Curing Oven L3	0.5	35	870			350	176	29.72
24	Curing Oven L3	0.5	35	870			350	176	29.72

Section N.3: Fugitive Information

UTM Zone:

Emission Unit #	Emission Unit Name	Process ID	Area Physical Data		Area UTM Coordinates		Area Release Data	
			Length of the X Side *(ft)*	Length of the Y Side *(ft)*	Northing *(m)*	Easting *(m)*	Release Temperature *(°F)*	Release Height *(ft)*

Section N.4: Notes, Comments, and Explanations

8.0 DEP7007DD INSIGNIFICANT ACTIVITIES

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: **Murakami Manufacturing USA, Inc.**

KY EIS (AFS) #: **21- 217-00039**

Permit #: **V-19-006**

Agency Interest (AI) ID: **4303**

Date: **4/15/2024**

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	Mold Release (0.002 lb/hr)		-	see attached emissions calculations
2	Mold Lubricant (0.0205 lb/hr)		-	see attached emissions calculations
3	Mold Rust Preventive (0.0144 lb/hr)		-	see attached emissions calculations
4	Injection Molding Parts Wiping (0.0359 lb/hr)		-	see attached emissions calculations
5	16 Plastic Molding Machines		-	see attached emissions calculations

Insignificant Activity #	Description of Activity including Rated Capacity	Serial Number or Other Unique Identifier	Applicable Regulation(s)	Calculated Emissions
6	Burn Off Oven (0.8 MMBTU/hr)		401 KAR 50:010	see attached emissions calculations
7	Solvent Recovery (20 liters/hr)		-	see attached emissions calculations

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.

Angie Miller
Authorized Signature

4-15-2024
Date

By:

Angie Miller
Type/Print Name of Siguatory

General Manager of Administration
Title of Siguatory

Section DD.3: Notes, Comments, and Explanations