MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

July 14, 2022

PERMIT TO INSTALL 139-04E

ISSUED TO

Motus Integrated Technologies

LOCATED AT 88 East 48th Street Holland, Michigan 49423

IN THE COUNTY OF Allegan

STATE REGISTRATION NUMBER N5455

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environment, Great Lakes, and Energy. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

March 28, 2022	QUIRED BY RULE 203:
DATE PERMIT TO INSTALL APPROVED: July 14, 2022	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

COMMON ACRONYMS	
POLLUTANT / MEASUREMENT ABBREVIATIONS	3
GENERAL CONDITIONS	4
EMISSION UNIT SPECIAL CONDITIONS	6
EMISSION UNIT SUMMARY TABLE	6
EU-AUTOFORMINGLINE	8
EU-MARRIAGELINE2	11
EU-AUTOFORMINGLINE2	14
EU-AUTOFORMINGLINE4	16
FLEXIBLE GROUP SPECIAL CONDITIONS	
FLEXIBLE GROUP SUMMARY TABLE	
FG-EDGEFOLDS	19
FGFACILITY CONDITIONS	21

COMMON ACRONYMS

AQD Air Quality Division

BACT Best Available Control Technology

CAA Clean Air Act

CAM Compliance Assurance Monitoring
CEMS Continuous Emission Monitoring System

CFR Code of Federal Regulations

COMS Continuous Opacity Monitoring System

Department/department/EGLE Michigan Department of Environment, Great Lakes, and Energy

EU Emission Unit FG Flexible Group

GACS Gallons of Applied Coating Solids

GC General Condition
GHGs Greenhouse Gases

HVLP High Volume Low Pressure*

ID Identification

IRSLInitial Risk Screening LevelITSLInitial Threshold Screening LevelLAERLowest Achievable Emission RateMACTMaximum Achievable Control TechnologyMAERSMichigan Air Emissions Reporting System

MAP Malfunction Abatement Plan MSDS Material Safety Data Sheet

NA Not Applicable

NAAQS National Ambient Air Quality Standards

NESHAP National Emission Standard for Hazardous Air Pollutants

NSPS New Source Performance Standards

NSR New Source Review
PS Performance Specification

PSD Prevention of Significant Deterioration

PTE Permanent Total Enclosure

PTI Permit to Install

RACT Reasonable Available Control Technology

ROP Renewable Operating Permit

SC Special Condition

SCR Selective Catalytic Reduction
SNCR Selective Non-Catalytic Reduction

SRN State Registration Number

TBD To Be Determined

TEQ Toxicity Equivalence Quotient

USEPA/EPA United States Environmental Protection Agency

VE Visible Emissions

^{*}For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

POLLUTANT / MEASUREMENT ABBREVIATIONS

acfm Actual cubic feet per minute

BTU British Thermal Unit °C Degrees Celsius CO Carbon Monoxide

CO₂e Carbon Dioxide Equivalent dscf Dry standard cubic foot dscm Dry standard cubic meter pegrees Fahrenheit

gr Grains

HAP Hazardous Air Pollutant

Hg Mercury hr Hour

 $\begin{array}{ccc} \text{HP} & \text{Horsepower} \\ \text{H}_2 \text{S} & \text{Hydrogen Sulfide} \end{array}$

kW Kilowatt

lb Pound

m Meter

mg Milligram

mm Millimeter

MM Million

MW Megawatts

NMOC Non-Methane Organic Compounds

NO_x Oxides of Nitrogen

ng Nanogram

PM Particulate Matter

PM10 Particulate Matter equal to or less than 10 microns in diameter PM2.5 Particulate Matter equal to or less than 2.5 microns in diameter

pph Pounds per hour ppm Parts per million

ppmv Parts per million by volume ppmw Parts per million by weight

psia Pounds per square inch absolute psig Pounds per square inch gauge

scf Standard cubic feet

 $\begin{array}{ccc} \text{sec} & \text{Seconds} \\ \text{SO}_2 & \text{Sulfur Dioxide} \end{array}$

TAC Toxic Air Contaminant

Temp Temperature THC Total Hydrocarbons

tpy Tons per year

µg Microgram

µm Micrometer or Micron

VOC Volatile Organic Compounds

yr Year

GENERAL CONDITIONS

- 1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. (R 336.1201(1))
- 2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. (R 336.1201(4))
- 3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to Rule 210 (R 336.1210), operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. (R 336.1201(6)(b))
- 4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. (R 336.1201(8), Section 5510 of Act 451, PA 1994)
- 5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to Rule 219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of Rule 219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environment, Great Lakes, and Energy. (R 336.1219)
- 6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. (R 336.1901)
- 7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal condition or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). (R 336.1912)
- 8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
- 9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
- 10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

- 11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of Rule 301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with Rule 303 (R 336.1303). (R 336.1301)
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.
- 12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2). (R 336.1370)
- 13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001. (R 336.2001)

EMISSION UNIT SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

	Installation/		
	Emission Unit Description	Modification	Flexible Group
Emission Unit ID	(Including Process Equipment & Control Device(s))	Date	ID
EU- AUTOFORMINGLINE	The adhesive portion of a 2-part urethane adhesive is applied with rollers onto both surfaces of a sheet of semi-rigid polyurethane foam. The catalyst portion of the 2-part urethane adhesive is sprayed onto the substrate to activate the adhesive. The product is transferred to a lay-up station where fiberglass sheets and scrim are placed on each side of the foam to form a loose composite. This process is repeated with another polyurethane foam sheet. A mold release agent is applied to a heated tool as the foam composite enters the form press which sets the adhesive to the composite. This includes clean-up operations.	5/19/2004 / 4/17/2018	NA
EU-MARRIAGELINE2	A conveyor carries formed composites to the spray booth. A pre-mixed 2-part urethane adhesive is sprayed onto the part using robotic applicators. After an inspection step, the coated part is transferred to a curing operation. After the curing operation, the part is transferred to the marriage press where a sheet of material is married to the composite. This includes clean-up operations.	5/19/2004 / 4/17/2018	NA
EU- AUTOFORMINGLINE 2	The adhesive portion of a 2-part urethane adhesive is applied with rollers onto both surfaces of a sheet of semi-rigid polyurethane foam. The catalyst portion of the 2-part urethane adhesive is sprayed onto the substrate to activate the adhesive. The product is transferred to a lay-up station where fiberglass sheets and scrim are placed on each side of the foam to form a loose composite. This process is repeated with another polyurethane foam sheet. A mold release agent is applied to a heated tool as the foam composite enters the form press which sets the adhesive to the composite. This includes clean-up operations.	2019	NA
EU- AUTOFORMINGLINE 4	The adhesive portion of a 2-part urethane adhesive is applied with rollers onto both surfaces of a sheet of semi-rigid polyurethane foam. The catalyst portion of the 2-part urethane adhesive is sprayed onto the substrate to activate the adhesive. The product is transferred to a lay-up station where fiberglass sheets and scrim are placed on each side of the foam to form a loose composite. This process is repeated with another polyurethane foam sheet. A mold release agent is applied to a heated tool as the foam composite enters the form press which sets the adhesive to the composite. This includes clean-up operations.	TBD	NA

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation/ Modification Date	Flexible Group ID
EU-EDGEFOLD1	A heated folding press that presses the edges of headliners from EU-AUTOFORMINGLINE and EU-AUTOFORMINGLINE2.	2019	FG- EDGEFOLDS
EU-EDGEFOLD2	A heated folding press that presses the edges of headliners from EU-AUTOFORMINGLINE and EU-AUTOFORMINGLINE2.	2019	FG- EDGEFOLDS

Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1291.

EU-AUTOFORMINGLINE EMISSION UNIT CONDITIONS

DESCRIPTION

The adhesive portion of a 2-part urethane adhesive is applied with rollers onto both surfaces of a sheet of semirigid polyurethane foam. The catalyst portion of the 2-part urethane adhesive is sprayed onto the substrate to activate the adhesive. The product is transferred to a lay-up station where fiberglass sheets and scrim are placed on each side of the foam to form a loose composite. This process is repeated with another polyurethane foam sheet. A mold release agent is applied to a heated tool as the foam composite enters the form press which sets the adhesive to the composite. This includes clean-up operations.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. <u>EMISSION LIMIT(S)</u>

	Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1.	VOCs	18.7 tpy	12-month rolling time period as determined at the end of each calendar month	EU- AUTOFORMINGLINE (excluding clean-up operations)	SC VI.2, SC VI.3	R 336.1225, R 336.1702(a)
2.	VOCs	0.8 tpy	12-month rolling time period as determined at the end of each calendar month	Clean-up operations associated with EU-AUTOFORMINGLINE	SC VI.2, SC VI.4	R 336.1702(a)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	5.0 lb/gal (minus water) ^a as applied	Instantaneous	EU- AUTOFORMINGLINE	SC V.1, SCVI.2	R 336.1702(a)

The phrase "minus water" shall also include compounds which are used as organic solvents, and which are excluded from the definition of volatile organic compound. (R 336.1602(4))

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings, adhesives, and clean-up materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and adhesives in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1225, R 336.1702(a))

IV. DESIGN/EQUIPMENT PARAMETER(S)

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the VOC content, water content and density of any coating or adhesive, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1225, R 336.1702)

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating or adhesive, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a))
- 3. The permittee shall keep the following information on a monthly basis for EU-AUTOFORMINGLINE:
 - a) Gallons (with water) of each coating and adhesive used.
 - b) VOC content (minus water and with water) of each coating and adhesive as applied.
 - c) VOC emission calculations determining the as-applied VOC content of each coating and adhesive used.
 - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

- 4. The permittee shall keep the following information on a monthly basis for clean-up operations in EU-AUTOFORMINGLINE:
 - a) Gallons (with water) of clean-up materials used.
 - b) VOC content (with water) of clean-up materials used.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1702(a))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-PB2-AFL	24	48	R 336.1225,
			40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EU-MARRIAGELINE2 EMISSION UNIT CONDITIONS

DESCRIPTION

A conveyor carries formed composites to the spray booth. A pre-mixed 2-part urethane adhesive is sprayed onto the part using robotic applicators. After an inspection step, the coated part is transferred to a curing operation. After the curing operation, the part is transferred to the marriage press where a sheet of material is married to the composite. This includes clean-up operations.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

Dry Filters

I. <u>EMISSION LIMIT(S)</u>

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	8.6 tpy	12-month rolling time period as determined at the end of each calendar month		· ·	R 336.1702(a)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	5.2 lb/gal (minus water) ^a as applied	Instantaneous	Adhesives used in EU-MARRIAGELINE2	SC V.1	R 336.1702(a)
2. VOCs	1.56 lb/gal (minus water) ^a as applied	Instantaneous	Coatings used in EU-MARRIAGELINE2	SC V.1	R 336.1702(a)

The phrase "minus water" shall also include compounds which are used as organic solvents, and which are excluded from the definition of volatile organic compound. (R 336.1602(4))

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall capture all waste coatings, adhesives, and clean-up materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and adhesives in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1225, R 336.1702(a))
- 2. The permittee shall dispose of spent filters in a manner which minimizes the introduction of air contaminants to the outer air. (R 336.1370)

IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall not operate EU-MARRIAGELINE2 unless all respective exhaust filters are installed, maintained and operated in a satisfactory manner. (R 336.1301, R 336.331, R 336.1910)

2. The permittee shall equip and maintain EU-MARRIAGELINE2 with HVLP or comparable technology with equivalent transfer efficiency. For HVLP applicators, the permittee shall keep test caps available for pressure testing. (R 336.1702(a))

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the VOC content, water content and density of any coating and/or adhesive, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1205(3), R 336.1225, R 336.1702(a))

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5)))
- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and adhesive, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)
- 3. The permittee shall keep the following information on a monthly basis for EU-MARRIAGELINE2:
 - a) Gallons (with water) of each coating and adhesive used.
 - b) VOC content (minus water and with water) of each coating and adhesive as applied.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1702(a))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-PB2-RTO	36	30	R 336.1225, 40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

Footnotes:

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EU-AUTOFORMINGLINE2 EMISSION UNIT CONDITIONS

DESCRIPTION

The adhesive portion of a 2-part urethane adhesive is applied with rollers onto both surfaces of a sheet of semi-rigid polyurethane foam. The catalyst portion of the 2-part urethane adhesive is sprayed onto the substrate to activate the adhesive. The product is transferred to a lay-up station where fiberglass sheets and scrim are placed on each side of the foam to form a loose composite. This process is repeated with another polyurethane foam sheet. A mold release agent is applied to a heated tool as the foam composite enters the form press which sets the adhesive to the composite. This includes clean-up operations.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	6.8 tpy	12-month rolling time period as determined at the end of each calendar month	EU- AUTOFORMINGLI NE2 (including clean-up operations)	SC VI.2, SC VI.3	R 336.1225, R 336.1702(a)

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	5.0 lb/gal	Instantaneous	EU-AUTOFORMINGLINE2	SC V.1,	R 336.1702(a)
	(minus water)a			SCVI.2	
	as applied				

^a The phrase "minus water" shall also include compounds which are used as organic solvents, and which are excluded from the definition of volatile organic compound. (R 336.1602(4))

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings, adhesives, and clean-up materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and adhesives in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1225, R 336.1702(a))

IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the VOC content, water content and density of any coating or adhesive, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1225, R 336.1702)

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating or adhesive, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a))
- 3. The permittee shall keep the following information on a monthly basis for EU-AUTOFORMINGLINE2 (including clean-up operations):
 - a) Gallons (with water) of each solvent, coating, and adhesive used.
 - b) VOC content (minus water and with water) of each solvent, coating, and adhesive as applied.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-PB2-AFL2	16	43	R 336.1225,
			40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

EU-AUTOFORMINGLINE4 EMISSION UNIT CONDITIONS

DESCRIPTION

The adhesive portion of a 2-part urethane adhesive is applied with rollers onto both surfaces of a sheet of semi-rigid polyurethane foam. The catalyst portion of the 2-part urethane adhesive is sprayed onto the substrate to activate the adhesive. The product is transferred to a lay-up station where fiberglass sheets and scrim are placed on each side of the foam to form a loose composite. This process is repeated with another polyurethane foam sheet. A mold release agent is applied to a heated tool as the foam composite enters the form press which sets the adhesive to the composite. This includes clean-up operations.

Flexible Group ID: NA

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	6.8 tpy	12-month rolling time	EU-	SC VI.2,	R 336.1225,
		period as determined at	AUTOFORMINGLINE4	SC VI.3	R 336.1702(a)
		the end of each	(including clean-up		
		calendar month	operations)		

II. MATERIAL LIMIT(S)

Material	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOCs	5.0 lb/gal (minus water) ^a		EU-AUTOFORMINGLINE4	SC V.1, SCVI.2	R 336.1702(a)
	as applied				

^a The phrase "minus water" shall also include compounds which are used as organic solvents, and which are excluded from the definition of volatile organic compound. (R 336.1602(4))

III. PROCESS/OPERATIONAL RESTRICTION(S)

1. The permittee shall capture all waste coatings, adhesives, and clean-up materials and shall store them in closed containers. The permittee shall dispose of all waste coatings and adhesives in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1225, R 336.1702(a))

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the VOC content, water content and density of any coating or adhesive, as applied and as received, using federal Reference Test Method 24. Upon prior written approval by the AQD District Supervisor, the permittee may determine the VOC content from manufacturer's formulation data. If the Method 24 and the formulation values should differ, the permittee shall use the Method 24 results to determine compliance. (R 336.1225, R 336.1702)

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- 1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1225, R 336.1702(a))
- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating or adhesive, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a))
- 3. The permittee shall keep the following information on a monthly basis for EU-AUTOFORMINGLINE4 (including clean-up operations):
 - a) Gallons (with water) of each solvent, coating, and adhesive used.
 - b) VOC content (minus water and with water) of each solvent, coating, and adhesive as applied.
 - c) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - d) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-PB2-AFL4	16	43	R 336.1225,
			40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SPECIAL CONDITIONS

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs	
FG-EDGEFOLDS	Two heated folding presses that presses the edges of	EU-EDGEFOLD1,	
	headliners from EU-AUTOFORMINGLINE and	EU-EDGEFOLD2	
	EU-AUTOFORMINGLINE2.		

FG-EDGEFOLDS FLEXIBLE GROUP CONDITIONS

DESCRIPTION

Two heated folding presses that presses the edges of headliners from EU-AUTOFORMINGLINE and EU-AUTOFORMINGLINE2.

Emission Unit: EU-EDGEFOLD1, EU-EDGEFOLD2

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Monitoring / Testing Method	Underlying Applicable Requirements
1. VOC	1.4 tpy	12-month rolling time	FG-EDGEFOLDS	SC VI.2,	R 336.1225,
		period as determined at		SC VI.3	R 336.1702(a)
		the end of each			
		calendar month			

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. NA

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

- The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1702(a), R 336.2001, R 336.2003, R 336.2004, R 336.2040(5)))
- The permittee shall maintain a current listing from the manufacturer of the chemical composition of each coating and adhesive, including the weight percent of each component. The data may consist of Material Safety Data Sheets, manufacturer's formulation data, or both as deemed acceptable by the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702)

- 3. The permittee shall keep the following information on a monthly basis for FG-EDGEFOLDS:
 - a) Gallons (with water) of each coating and adhesive used on EU-AUTOFORMINGLINE and EU-AUTOFORMINGLINE2.
 - b) VOC content (minus water and with water) of each coating and adhesive as applied on EU-AUTOFORMINGLINE and EU-AUTOFORMINGLINE2.
 - c) The VOC emission factor for FG-EDGEFOLDS. A VOC emission factor of 5 percent of VOC per ton of VOC upstream on EU-AUTOFORMINGLINE and EU-AUTOFORMINGLINE2 shall be used.
 - d) VOC mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) VOC mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1225, R 336.1702(a))

VII. REPORTING

1. Within 30-days after the completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or authorized agent per Rule 204, shall notify the AQD District Supervisor, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, or modification is considered to occur not later than commencement of trial operation of FG-EDGEFOLDS. (R 336.1201(7)(a))

VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter / Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SV-EDGEFOLD	16	31	R 336.1225,
			40 CFR 52.21(c) & (d)

IX. OTHER REQUIREMENT(S)

NA

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FGFACILITY CONDITIONS

DESCRIPTION

The following conditions apply source-wide to all process equipment including equipment covered by other permits, grand-fathered equipment, and exempt equipment.

POLLUTION CONTROL EQUIPMENT

NA

I. EMISSION LIMIT(S)

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. Each Individual HAP	Less than 9.9 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.1, SC VI.2	R 336.1205(3)
2. Aggregate HAPs	Less than 22.5 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.1, SC VI.2	R 336.1205(3)
3. Acetaldehyde	0.90 tpy	12-month rolling time period as determined at the end of each calendar month	FGFACILITY	SC V.1, SC VI.3	R 336.1225(2)

II. MATERIAL LIMIT(S)

NA

III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

IV. <u>DESIGN/EQUIPMENT PARAMETER(S)</u>

NA

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall determine the HAP content of any HAP containing material as received and as applied, using manufacturer's formulation data. Upon request of the AQD District Supervisor, the permittee shall verify the manufacturer's HAP formulation data using EPA Test Method 311. (R 336.1205(3))

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1201(3))

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any monitoring/recordkeeping special condition. (R 336.1205(3), R 336.1225)

- 2. The permittee shall keep the following information on a monthly basis for FGFACILITY:
 - a) Gallons or pounds of each HAP containing material used.
 - b) Where applicable, gallons or pounds of each HAP containing material reclaimed.
 - c) HAP content, in pounds per gallon or pounds per pound, of each HAP containing material used.
 - d) Individual and aggregate HAP emission calculations determining the monthly emission rate of each in tons per calendar month.
 - e) Individual and aggregate HAP emission calculations determining the annual emission rate of each in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. (R 336.1205(3))

- 3. The permittee shall keep the following information on a monthly basis for FGFACILITY:
 - a) Gallons (with water) of each acetaldehyde (CAS No. 75-070) containing material used.
 - b) Where applicable, gallons (with water) of each acetaldehyde (CAS No. 75-070) containing material reclaimed.
 - c) The acetaldehyde (CAS No. 75-070) content (with water) in pounds per gallon of each material used.
 - d) Acetaldehyde (CAS No. 75-070) mass emission calculations determining the monthly emission rate in tons per calendar month.
 - e) Acetaldehyde (CAS No. 75-070) mass emission calculations determining the annual emission rate in tons per 12-month rolling time period as determined at the end of each calendar month.

The permittee shall keep the records using mass balance or an alternate method and format acceptable to the AQD District Supervisor. The permittee shall keep all records on file and make them available to the Department upon request. ¹ (R 336.1225(2))

VII. REPORTING

NA

VIII. STACK/VENT RESTRICTION(S)

NA

IX. OTHER REQUIREMENT(S)

NA

¹ This condition is state only enforceable and was established pursuant to Rule 201(1)(b).