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

March 17, 2023

PERMIT TO INSTALL 43-23

ISSUED TO

Pharmacia & Upjohn Company LLC, a subsidiary of Pfizer, Inc.

LOCATED AT

7000 Portage Road Kalamazoo, Michigan 49001

IN THE COUNTY OF

Kalamazoo

STATE REGISTRATION NUMBER B3610

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).

DATE OF RECEIPT OF ALL INFORMATION REQ	DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203:						
March 9, 2023							
•							
DATE PERMIT TO INSTALL APPROVED:	SIGNATURE:						
March 17, 2023							
·							
DATE PERMIT VOIDED:	SIGNATURE:						
DATE PERMIT REVOKED:	SIGNATURE:						

PERMIT TO INSTALL

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COMMON ACRONYMS

AQD Air Quality Division

BACT Best Available Control Technology

CAA Clean Air Act

Compliance Assurance Monitoring CAM Continuous Emission Monitoring System **CEMS**

Code of Federal Regulations CFR

Continuous Opacity Monitoring System COMS

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

Emission Unit EU FG Flexible Group

GACS Gallons of Applied Coating Solids

GC **General Condition GHGs** Greenhouse Gases

HVLP High Volume Low Pressure*

Identification ID

IRSL Initial Risk Screening Level Initial Threshold Screening Level ITSL Lowest Achievable Emission Rate LAER **MACT** Maximum Achievable Control Technology Michigan Air Emissions Reporting System **MAERS**

Malfunction Abatement Plan MAP **MSDS** Material Safety Data Sheet

Not Applicable NA

NAAQS National Ambient Air Quality Standards

National Emission Standard for Hazardous Air Pollutants **NESHAP**

New Source Performance Standards NSPS

NSR **New Source Review** PS Performance Specification

PSD Prevention of Significant Deterioration

Permanent Total Enclosure PTE

PTI Permit to Install

RACT Reasonable Available Control Technology

ROP Renewable Operating Permit

SC **Special Condition**

Selective Catalytic Reduction SCR Selective Non-Catalytic Reduction SNCR

State Registration Number SRN

To Be Determined **TBD**

TEQ **Toxicity Equivalence Quotient**

USEPA/EPA United States Environmental Protection Agency

VΕ Visible Emissions

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

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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

HP Horsepower
H₂S Hydrogen Sulfide

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.

Emission Unit ID	Emission Unit Description (Including Process Equipment & Control Device(s))	Installation Date / Modification Date	Flexible Group ID
EUCR491COM-S3	All equipment in or around Building 91, commercial area, located in KAPI Region IV. Includes charging of 1MAV-containing materials in B91TANK1615 or B91TANK2265 (PTI No. 43-23).	01-01-1961/ 12-28-1995/ 03-31-2015/ 08-27-2021/ 01-31-2022/ 03-17-2023	FGCRALLPART-S3 FGCRALLTOX-S3 FGCFUG-S3 FGPHARMAMACT-S3
EUCR3225-S3	All equipment in or around Building 225, located in API Region III. Includes pack out of 1MAV-containing and 2MAV-containing materials (PTI No. 43-23).	01-01-1976/ 06-14-1995/ 03-15-2016/ 02-07-2019/ 09-13-2021/ 01-31-2022/ 03-17-2023	FGCRALLPART-S3 FGCRALLTOX-S3 FGCFUG-S3 FGPHARMAMACT-S3

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.

EUCR491COM-S3 EMISSION UNIT CONDITIONS

DESCRIPTION

All equipment in or around Building 91, commercial area, located in API Region IV. Includes charging of 1MAV-containing materials in B91TANK1615 or B91TANK2265 (PTI No. 43-23).

Flexible Group ID: FGCRALLPART-S3, FGCRALLTOX-S3, FGCFUG-S3, FGPHARMAMACT-S3

POLLUTION CONTROL EQUIPMENT

HEPA Filters on DUST1010, EX27 filters1049 and 1056, EX117, EX118, EX119, Exhaust Fans on EX107, EX124; Condensers, connected to TOX; Scrubbers, connected to TOX.

I. EMISSION LIMIT(S)

	Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	VOC	50 lbs ¹	Per month	TANK1615 not controlled by the thermal oxidizer	SC VI.3	R 336.1225, R 336.1227(2)
2.	VOC	10 lbs ¹	Per lot	Unconnected VOC processes	SC VI.3	R 336.1225, R 336.1227(2)
3.	Methanol	0.1 pph ¹	Hourly	TANK1615 not controlled by the thermal oxidizer	SC VI.3	R 336.1225, R 336.1227(2)
4.	Methylene Chloride	1 pph ¹	Hourly	TANK1615 not controlled by the thermal oxidizer	SC VI.3	R 336.1225, R 336.1227(2)
5.	Ozone	0.2 pph ¹	Hourly	TANK1615 not controlled by the thermal oxidizer	SC VI.3	R 336.1225, R 336.1227(2)
6.	Particulate	90 lbs ¹	Per month	All process vents combined	SC VI.2	R 336.1225, R 336.1227(2)
7.	Particulate	Limits in the table below:	Hourly	EUCR491COM-S3	SC VI.2	R 336.1225, R 336.1331(c)

Exhaust ID	Lbs Particulate Per Hour By Size Category (See Appendix 10-S3)		Lbs Particulate Per 1000 Lbs Of Dry Exhaust Gas (See Appendix 10-S3)		Gas	Maximum Gas Flow Rate	
	A	В	Ć	À	В	C	(dscfm)
8. DUST1010	0.19	0.13	0.08	0.01	0.01	0.006	3,090
9. EX-27	0.23	0.17	0.10	0.01	0.01	0.006	4,000
10. EX-107	-	1.44	0.86	-	0.10	0.06	3,360
11. EX-117	0.06	0.043	0.026	0.01	0.01	0.006	1,000
12. EX-118	0.06	0.043	0.026	0.01	0.01	0.006	1,000
13. EX-119	0.06	0.043	0.026	0.01	0.01	0.006	1,000
14. EX-124	-	1.37	0.82	-	0.10	0.06	3,200

II. MATERIAL LIMIT(S)

	Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	Lots of product produced in TSP processes.	30 lots ¹	Per month	EUCR491COM-S3	SC VI.5	R 336.1225, R 336.1227(2)
2.	Lots of VOC emitting product produced in equipment not controlled by the thermal oxidizer	5 lots ¹	Per month	EUCR491COM-S3	SC VI.6	R 336.1225, R 336.1227(2)
3.	Material produced in 1MAV-emitting activities	90 kg/lot ¹	Per month	EUCR491COM-S3	SC VI.7	R 336.1226(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate equipment located in EUCR491COM-S3 in vacuum service, while processing a VOC, unless a vacuum pump connected to the thermal oxidizer control is installed, maintained, and operated in a satisfactory manner acceptable to the AQD District Supervisor. (R 336.1224, R 336.1910)
- The permittee shall capture all waste materials from the solvent cleaning of the lipid storage tanks and shall store them in closed containers. The permittee shall dispose of all these materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1224, R 336.1225, R 336.1702(a))
- 3. The permittee shall handle all materials for EUCR491COM-S3 activities containing volatile compounds other than water in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. (R 336.1224, 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))

NA

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 records in a format acceptable to the AQD District Supervisor and make them available by the last 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), R 336.1331(c), R 336.1910)
- 2. The permittee shall calculate and record the actual particulate emission rates on a monthly basis using a method similar to that described in Appendix 4-S3. (R 336.1225, R 336.1227(2), R 336.1331(c))
- 3. The permittee shall calculate the actual VOC emissions from each process for unconnected VOC equipment for each calendar month using the method detailed in Appendix 4-S3. (R 336.1702(a))

- 4. The permittee shall conduct and record the results of a visible emission observation (described in Appendix 3-S3) of the particulate control device exhausts once per calendar month during a period when the particulate control devices are being operated. (R 336.1331)
- 5. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in lots, produced in PM-emitting activities in EUCR491COM-S3 on a calendar month basis.¹ (R 336.1225, R 336.1227(2))
- 6. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in lots, produced in VOC-emitting activities in EUCR491COM-S3 on a calendar month basis.¹ (R 336.1225, R 336.1227(2))
- 7. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in kg/lot, produced in 1MAV-emitting activities in EUCR491COM-S3 on a calendar month basis.¹ (R 336.1225, R 336.1227(2))

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to 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 the 1MAV charging operations in EUCR491COM-S3. (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. SVC91EX107	16	23	R 336.1225, 40 CFR 52.21(c) and (d)
2. SVC91EX117	10	23	R 336.1225, 40 CFR 52.21(c) and (d)
3. SVC91EX118	10	23	R 336.1225, 40 CFR 52.21(c) and (d)
4. SVC91EX119	10	23	R 336.1225, 40 CFR 52.21(c) and (d)
5. SVC91EX124	18	40	R 336.1225, 40 CFR 52.21(c) and (d)
6. SVC91EX27*	25 x 19	37	R 336.1225, 40 CFR 52.21(c) and (d)
7. SVC91DUST1010	24	62	R 336.1225, 40 CFR 52.21(c) and (d)
* may have an orientation 45	o below horizontal		

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart GGG for Pharmaceuticals Production by the initial compliance date. **(40 CFR Part 63, Subparts A and GGG)**

Footnotes:

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

EUCR3225-S3 EMISSION UNIT CONDITIONS

DESCRIPTION

All equipment in or around Building 225, located in API Region III. Includes pack out of 1MAV-containing and 2MAV-containing materials (PTI No. 43-23).

Flexible Group ID: FGCRALLPART-S3, FGCRALLTOX-S3, FGCFUG-S3, FGPHARMAMACT-S3

POLLUTION CONTROL EQUIPMENT

Particle Scrubbers on SCRB1006, SCRB1007; HEPA Filters on EF1C1HB1, EX27, EX30, EX34; Scrubbers connected to the thermal oxidizer system (TOX). TOX: Two parallel thermal oxidizer, quench, and scrubber trainsone in use and one as a backup.

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

	Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	VOC (total)	75 lbs/month	Calendar month	When emitting from unconnected vent T-K271	SC VI.3	R 336.1702(a)
2.	Diisobutyl Aluminum Hydride	0.01 pph ¹	Hourly	T-K271 while emitting from the unconnected bypass vent	SC VI.3	R 336.1225
3.	Toluene	2.00 pph ¹	Hourly	T-K271 while emitting from the unconnected bypass vent	SC VI.3	R 336.1225
4.	Isobutylene	0.01 pph ¹	Hourly	T-K271 while emitting from the unconnected bypass vent	SC VI.3	R 336.1225
5.	Isobutane	0.01 pph ¹	Hourly	T-K271 while emitting from the unconnected bypass vent	SC VI.3	R 336.1225
6.	Particulate matter (PM)	188.6 lbs/month ¹	Calendar month	All EUCR3225-S3 vents combined	SC VI.2	R 336.1225
7.	PM	Limits in the table below:	Hourly	EUCR3225-S3	SC VI.2	R 336.1225, R 336.1331(c)
8.	PM10	188.6 lbs	Calendar month	All EUCR3225-S3 vents combined	SC VI.2	40 CFR 52.21(c) and (d)
9.	PM10	Limits in the table below:	Hourly	EUCR3225-S3	SC VI.2	40 CFR 52.21(c) and (d)
10.	PM2.5	188.6 lbs	Calendar month	All vents in EUCR3225-S3 combined	SC VI.2	40 CFR 52.21(c) and (d)
11.	PM2.5	Limits in the table below:	Hourly	EUCR3225-S3	SC VI.2	40 CFR 52.21(c) and (d)

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
12. VOC (total)	3.91 tpy	12-month rolling time period as determined at the end of each calendar month	Unconnected silica slurry exhaust hood	SC VI.6	R 336.1702(a)

	PM, PN	110, and	PM2.5		PM only		
Exhaust ID		r Hour B Category	•	Lbs Particulate Per 1000 Lbs Of Dry Exhaust Gas		Dry	Maximum Gas Flow Rate (dscfm)
	Α	В	С	Α	В	С	
13. EF1C1HB1	0.14	0.1	0.06	0.01	0.01	0.006	2,400
14. SCRB1006	0.82	0.41	0.21	0.01	0.01	0.006	24,000
15. SCRB1007	0.41	0.21	0.1	0.01	0.01	0.006	12,000
16. EX-27	0.33	0.24	0.14	0.01	0.01	0.006	5,500
17. EX-30	0.12	0.09	0.05	0.01	0.01	0.006	2,000
18. EX-34	0.34	0.24	0.15	0.01	0.01	0.006	5,700

^{*}See Appendix 10-S3 for approved procedures for determination of the particle size category.

II. MATERIAL LIMIT(S)

	Material	Limit	Time Period/ Operating Scenario	Equipment	Monitoring/ Testing Method	Underlying Applicable Requirements
1.	Material produced in PM-emitting activities	115 lots/month ¹	Calendar month	EUCR3225-S3	SC VI.5	R 336.1225, R 336.1227(2)
2.	Lots of product produced in VOC processes.	30 lots/month	Calendar month	EUCR3225-S3	SC VI.7	R 336.1225, R 336.1227(2), R 336.1702(a)
3.	Material produced in 1MAV-emitting activities	90 kg/lot ¹	Calendar month	EUCR3225-S3	SC VI.8	R 336.1226(a)
4.	Material produced in 2MAV-emitting activities	90 kg/lot ¹	Calendar month	EUCR3225-S3	SC VI.9	R 336.1226(a)

III. PROCESS/OPERATIONAL RESTRICTION(S)

- 1. The permittee shall not operate equipment located in EUCR3225-S3 in vacuum service while processing a VOC unless the vacuum pump is connected to the thermal oxidizer control and the thermal oxidizer control is installed, maintained, and operated in a satisfactory manner. (R 336.1224, R 336.1225, R 336.1702(a), R 336.1910)
- 2. The permittee shall capture all waste materials from the solvent cleaning of the solids drum charging glove boxes and shall store them in closed containers. The permittee shall dispose of all these materials in an acceptable manner in compliance with all applicable state rules and federal regulations. (R 336.1224, R 336.1225, R 336.1702(a))
- 3. The permittee shall capture all waste materials from the solvent cleaning of the lipid storage tanks and shall store them in closed containers. The permittee shall dispose of all these materials in an acceptable manner

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in compliance with all applicable state rules and federal regulations. (R 336.1224, R 336.1225, R 336.1702(a))

4. The permittee shall handle all materials for EUCR3225-S3 activities containing volatile compounds other than water in a manner to minimize the generation of fugitive emissions. The permittee shall keep containers covered at all times except when operator access is necessary. (R 336.1224, 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))

NA

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 records in a format acceptable to the AQD District Supervisor and make them available by the last 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), R 336.1331(c), R 336.1910)
- 2. The permittee shall calculate and record the actual PM, PM10, and PM2.5 emission rates on a monthly basis using a method similar to that described in Appendix 4-S3. (R 336.1225, R 336.1227(2), R 336.1331(c))
- 3. The permittee shall calculate the actual VOC emissions from each process for unconnected VOC equipment for each calendar month using the method detailed in Appendix 4-S3. (R 336.1702(a))
- 4. The permittee shall conduct and record the results of a visible emission observation (described in Appendix 3-S3) of the particulate control device exhausts once per calendar month during a period when the particulate control devices are being operated. (R 336.1331)
- 5. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in lots, produced in PM-emitting activities in EUCR3225-S3 on a calendar month basis.¹ (R 336.1225, R 336.1227(2))
- 6. The permittee shall calculate the actual VOC emissions from the silica slurry exhaust hood for each calendar month and the 12- month rolling time period, as determined at the end of each calendar month, in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file at the facility and shall make them available to the department upon request. (R 336.1702(a))
- 7. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in lots, produced in VOC-emitting activities in EUCR3225-S3 on a calendar month basis.¹ (R 336.1225, R 336.1227(2))
- 8. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in kg/lot, produced in 1MAV-emitting activities in EUCR3225-S3 on a calendar month basis.¹ (R 336.1226(a))
- 9. The permittee shall monitor and record, in a satisfactory manner, the amount of material, in kg/lot, produced in 2MAV-emitting activities in EUCR3225-S3 on a calendar month basis.¹ (R 336.1226(a))

VII. REPORTING

1. Within 30 days after completion of the installation, construction, reconstruction, relocation, or modification authorized by this Permit to Install, the permittee or the authorized agent pursuant to 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 1MAV and 2MAV packing operations in EUCR3225-S3. (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. SVC225EF1C1HB1	14	55	R 336.1225,
			40 CFR 52.21(c) and (d)
2. SVC225EX27	29	68	R 336.1225,
			40 CFR 52.21(c) and (d)
3. SVC225EX30	17	54	R 336.1225,
			40 CFR 52.21(c) and (d)
4. SVC225EX34	25	53	R 336.1225,
			40 CFR 52.21(c) and (d)
5. SVC225SCRB1006	35	79	R 336.1225,
			40 CFR 52.21(c) and (d)
6. SVC225SCRB1007	25	80	R 336.1225,
			40 CFR 52.21(c) and (d)
7. SVC225TK271	4	61	R 336.1225,
			40 CFR 52.21(c) and (d)

IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart GGG for Pharmaceuticals Production by the initial compliance date. **(40 CFR Part 63, Subparts A and GGG)**

Footnotes:

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

Pharmacia & Upjohn Company, LLC, a Subsidiary of Pfizer, Inc. (B3610)
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APPENDIX 3-S3. Monitoring Requirements

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in EUCR491COM-S3 and EUCR3225-S3. Alternative monitoring procedures, methods, or specifications must be approved by the AQD District Supervisor. All other provisions of Appendix 4-S3 of ROP# MI-ROP-B3610-2021, revised May 12, 2022, remain applicable.

A "visible emissions observation" refers to a survey to be performed for the purpose of determining if there is the presence of visible emissions or if there are no visible emissions, other than uncombined water vapor. Visible emission observation shall be taken at least once per month, for a 1-minute duration, during daylight hours. This can be performed by either a certified or non-certified reader. A log of the required observations shall contain the following information: date, time, observer, status of visible emissions (Yes/No).

APPENDIX 4-S3. Recordkeeping

The permittee shall use the following approved formats and procedures for the recordkeeping requirements referenced in EUCR491COM-S3. Alternative formats must be approved by the AQD District Supervisor. An alternative format has been approved. All other provisions of Appendix 4-S3 of ROP# MI-ROP-B3610-2021a, revised May 12, 2022, remain applicable.

MONTHLY RECORDKEEPING FORMAT- REGION IV TSP PROCESSES			
Process Building	Particulate Maximum (lbs/lot)	Actual Number of lots/month	Estimated Particulate Emissions (lbs/month)
91 Commercial	2.5		

The permittee shall use the following approved formats and procedures for the recordkeeping requirements referenced in EUCR491COM-S3. Alternative formats must be approved by the AQD District Supervisor. An alternative format has been approved. All other provisions of Appendix 4-S3 of ROP# MI-ROP-B3610-2021a, revised May 12, 2022, remain applicable.

MONTHLY RECORDKEEPING FORMAT- REGION IV UNCONNECTED VOC EQUIPMENT PROCESSES			
Process Building	VOC Maximum (lbs/lot)	Actual Number of lots/month	Estimated VOC Emissions (lbs/month)
91	10		

The permittee shall use the following approved formats and procedures for the recordkeeping requirements referenced in EUCR3225-S3. Alternative formats must be approved by the AQD District Supervisor. An alternative format has been approved. All other provisions of Appendix 4-S3 of ROP# MI-ROP-B3610-2021a, revised May 12, 2022, remain applicable.

MONTHLY RECORDKEEPING FORMAT- REGION III UNCONNECTED VOC EQUIPMENT PROCESSES			
Process Building	VOC Maximum (lbs/lot)	Actual Number of lots/month	Estimated VOC Emissions (lbs/month)
225	2.5		

The permittee shall use the following approved formats and procedures for the recordkeeping requirements referenced in EUCR3225-S3. Alternative formats must be approved by the AQD District Supervisor. An alternative format has been approved. All other provisions of Appendix 4-S3 of ROP# MI-ROP-B3610-2021a, revised May 12, 2022, remain applicable.

MONTHLY RECORDKEEPING FORMAT- REGION III TSP PROCESSES			
Process Building	Particulate Maximum (lbs/lot)	Actual Number of lots/month	Estimated Particulate Emissions (lbs/month)
225	1.64		

APPENDIX 10-S3. Particle Size Categories

The permittee shall use the following approved procedures for determination of the particle size category and appropriate control equipment for the requirements referenced in Table in EUCR491COM-S3 and EUCR3225-S3.

Category A Mean particle size by weight <100 microns

Category B Mean particle size by weight >100 microns but <200 microns

Category C Mean particle size by weight >200 microns

	Particle Size/
Control Device	Control Class
Rotoclone	A, B, C
Exhaust Fan	B, C
Scrubber	A, B, C
Baghouse	A, B, C
Dust Collector	A, B, C