

State Registration Number

P1027

**RENEWABLE OPERATING PERMIT  
STAFF REPORT**

ROP Number

MI-ROP-P1027-  
2020b

**DDP Specialty Electronic Materials US, LLC (hereinafter "DDP")**

**and**

**Nutrition & Biosciences USA 1, LLC (hereinafter "N&B")**

State Registration Number (SRN): P1027

Located at

DDP Specialty Electronic Materials US, LLC, 3400 South Saginaw Road, Unit 96, Midland, Midland  
County, Michigan 48640

and

Nutrition & Biosciences USA 1, LLC, 3400 South Saginaw Road, Unit 57, Midland, Midland County,  
Michigan 48640

Permit Number: MI-ROP-P1027-2020b

Staff Report Date: August 10, 2020

Amended Dates: March 1, 2021;  
November 10, 2022

This Staff Report is published in accordance with Sections 5506 and 5511 of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). Specifically, Rule 214(1) of the administrative rules promulgated under Act 451, requires that the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD), prepare a report that sets forth the factual basis for the terms and conditions of the Renewable Operating Permit (ROP).

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**RENEWABLE OPERATING PERMIT**

**AUGUST 10, 2020 - STAFF REPORT**

**Purpose**

Major stationary sources of air pollutants, and some non-major sources, are required to obtain and operate in compliance with an ROP pursuant to Title V of the federal Clean Air Act; and Michigan's Administrative Rules for Air Pollution Control promulgated under Section 5506(1) of Act 451. Sources subject to the ROP program are defined by criteria in Rule 211(1). The ROP is intended to simplify and clarify a stationary source's applicable requirements and compliance with them by consolidating all state and federal air quality requirements into one document.

This Staff Report, as required by Rule 214(1), sets forth the applicable requirements and factual basis for the draft ROP terms and conditions including citations of the underlying applicable requirements, an explanation of any equivalent requirements included in the draft ROP pursuant to Rule 212(5), and any determination made pursuant to Rule 213(6)(a)(ii) regarding requirements that are not applicable to the stationary source.

**General Information**

Stationary Source Mailing Address:	DDP Specialty Electronic Materials US, Inc. 3400 South Saginaw Road Unit 96 Midland, Michigan 48640
Source Registration Number (SRN):	P1027
North American Industry Classification System (NAICS) Code:	325211
Number of Stationary Source Sections:	1
Application Type:	Significant Modification
Application Number:	201900087
Responsible Official:	Joe Guerrieri, Michigan Operations Site Leader 302-584-8886
AQD Contact:	Kathy Brewer, Senior Environmental Quality Analyst 989-439-2100
Date Application Received:	March 6, 2019
Date Application Was Administratively Complete:	NA
Is Application Shield in Effect?	NA
Date Public Comment Begins:	August 10, 2020
Deadline for Public Comment:	September 9, 2020

## **Source Description**

DDP Specialty Electronic Materials US, Inc. (DDP) is a chemical manufacturer located in Midland, Michigan. DDP manufactures chemical products using a variety of process equipment including reactors, distillation/fractionation columns, separators, storage tanks/silos, condensers, thermal heat recovery and oxidation units, scrubbers, etc. DDP also maintains and operates research and development facilities, storage tank farms, office buildings, and ancillary equipment (i.e., boilers, etc.). Some of the products produced by DDP include ion exchange resins, cellulose derived materials, specialty monomers, and adhesives.

DDP is located at a single stationary source with The Dow Chemical Company (SRN: A4033), Dow Silicones Corporation (SRN: A4043), SK Saran Americas LLC (SRN: P1026), Dow AgroSciences LLC (SRN: P1028), and Trinseo LLC (SRN: P1025).

In 2016, Dow Silicones Corporation became a wholly owned subsidiary of The Dow Chemical Company. On February 20, 2019, the Dow Silicones Corporation was issued ROP No. MI-ROP-A4043-2019. Dow Silicones Corporation will retain its current State Registration Number (SRN) of A4043 and separately issued ROP.

On April 1, 2019, The Dow Chemical Company (Dow) underwent a restructuring and split off its assets to form an industrial park with SK Saran Americas LLC (SK Saran), Dow AgroSciences LLC (DAS/Corteva), Trinseo LLC, and DDP. The Dow Chemical Company is considered the landlord of the industrial park or stationary source whereas the other facilities are considered tenants that will own and operate their assets. They are one stationary source pursuant to the Clean Air Act. Dow owns the land and has lease agreements, product supply agreements, licensing agreements, business service agreements, technical service agreements, site service agreements, and other agreements with the facilities that give Dow common control.

Dow requested that each facility acquire its own Part 70, Title V, renewable operating permit (ROP). Since Dow's existing ROP doesn't expire until 2022, the Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD), had the facilities submit individual ROP Significant Modification applications to enable each facility to acquire its own ROP.

EGLE is issuing new, individual ROPs that incorporate the stationary source assets previously in ROP No. MI-ROP-A4033-2017b, but no longer owned by Dow, into ROPs to each entity at the stationary source for the assets the entity owns. Assets still owned by Dow will remain in ROP No. MI-ROP-A4033-2017b or any subsequent revisions. ROP No. MI-ROP-A4033-2017b will expire five years after the original issuance date. The new ROPs issued for the other entities at the stationary source that submitted a significant modification will expire five years after the date of the new individual ROP issuance for each entity. The Dow Silicones Corporation ROP will expire in 2024.

The draft ROP for DDP lists the stationary source emission units and flexible groups owned by DDP in emission unit and flexible group summary tables in section C and section D of the draft ROP.

In the Source-Wide Requirements section of each facility's new ROP, language has been added to indicate that all the facilities are one stationary source.

The specific federal requirements applicable to processes and activities at the DDP facility are included in the Regulatory Analysis portion of this staff report.

Currently some emission units owned by one company can vent process exhaust to a control device owned by another company. Language has been included in each ROP that requires the generator of the emissions to acquire, and the owner of the control device to provide, adequate monitoring and records to demonstrate compliance with conditions in each ROP.

Control Device	Current owner	EU	Current owner
FG954THROX	DAS/Corteva (SRN P1028)	EU01, EU07+, EU11, EU13	DAS/Corteva (SRN P1028)
		EU06*, EU08+, EUB2, EUB5	DDP (SRN P1027)
		EU91	Trinseo LLC (SRN P1025)
FG963THROX	DDP (SRN P1027)	EU88, EUANION_XCHG, EUB2, FGRULE290	DDP (SRN P1027)
		EU03, EU11, EU12b	DAS/Corteva (SRN P1028)
		EUB1	Trinseo LLC (SRN P1025)
		EU82	Dow Chemical (SRN A4033)
FGSARANTTU	SK Saran (SRN P1026)	EU035	SK Saran (SRN P1026)
		EU02	DAS/Corteva (SRN P1028)
FGHCLSCRUBBER	DDP (SRN P1027)	EU06*	DDP (SRN P1027)
		EU05*	DAS/Corteva (SRN P1028)

\*Former EU85 (PTI No.78-03)

+Former EU93 (PTI No. 284-07)

The following table lists stationary source emission information as reported to the Michigan Air Emissions Reporting System (MAERS) for the year **2018**. The emissions reported are for all the activities at the stationary source that are required to be included in the 2018 emissions report from DDP, Dow, SK Saran, DAS/Corteva, Trinseo LLC, and Dow Silicones Corporation that reported 2018 emissions separately. In the future emissions will be reported individually by the company that owns the asset with reportable emissions.

### 2018 TOTAL STATIONARY SOURCE EMISSIONS

Pollutant	Tons per Year
Carbon Monoxide (CO)	44.74
Lead (Pb)	6.38
Nitrogen Oxides (NO <sub>x</sub> )	172
Particulate Matter (PM)	50.83
Sulfur Dioxide (SO <sub>2</sub> )	8.64
TOC	0.02
Volatile Organic Compounds (VOCs)	384.59

MAERS does not require individual and accumulative HAPs to be reported annually for the entire stationary source. HAPs emissions are tracked by individual processes as required by the conditions in the ROP and per state and federal regulations. HAP emissions were not required by the ROP Significant Modification application.

See Parts C and D in the ROP for summary tables of all processes at the stationary source that are subject to process-specific emission limits or standards.

## **Regulatory Analysis**

The following is a general description and history of the source. Any determinations of regulatory non-applicability for this source are explained below in the Non-Applicable Requirement part of the Staff Report and identified in Part E of the ROP.

The stationary source is in Midland County, which is currently designated by the United States Environmental Protection Agency (USEPA) as attainment/unclassified for all criteria pollutants.

The stationary source is subject to Title 40 of the Code of Federal Regulations (CFR) Part 70 because the potential to emit each of the following criteria pollutants exceeds 100 tons per year: nitrogen oxides (NOx), Particulate Matter (PM), and volatile organic compounds (VOCs). The stationary source is considered a major source of Hazardous Air Pollutant (HAP) emissions because the potential to emit of any single HAP regulated by the federal Clean Air Act, Section 112, is equal to or more than 10 tons per year and/or the potential to emit of all HAPs combined is equal to or more than 25 tons per year.

The stationary source is an existing Major Stationary Source for federal Prevention of Significant Deterioration (PSD) (40 CFR 52.21) regulations. The stationary source is a chemical process plant and a major stationary source because its potential to emit of NOx, PM, and VOCs is greater than 100 tons per year. The 32 hazardous waste incinerator at Dow is considered a “synthetic minor” source with regard to PSD as Dow accepted legally enforceable permit conditions limiting the potential to emit from the incinerator for sulfur dioxide (SO<sub>2</sub>), PM, (particulate matter), PM-10 (PM less than 10 microns in diameter), PM2.5 (PM less than 2.5 microns in diameter), carbon monoxide (CO), fluorides, and sulfuric acid. The 32 incinerator was able to “net out” of PSD for NOx.

As stated above under the “Source Description”, DDP, Dow, Dow Silicones Corporation, SK Saran, DAS/Corteva, and Trinseo LLC are one stationary source for New Source Review, PSD, and Title V Major Source applicability and determinations.

On January 24, 2020, Consent Decree No. 19-11880 was entered and agreed upon by Dow Silicones Corporation and the USEPA. The consent decree is applicable to the Dow Silicones Corporation owned assets at the stationary source at time the consent decree was signed. In part, the consent decree requires Dow Silicones Corporation to evaluate and make changes where appropriate to existing permit conditions for the Dow Silicone Corporation owned assets. Dow Silicones Corporation will modify their ROP No. MI-ROP-A4043-2019 as needed to comply with the consent decree.

The following Source Wide requirements are applicable to processes and activities at the stationary source included in the ROPs for DDP, Dow, SK Saran, DAS/Corteva, and Trinseo LLC:

National Emission Standard for Hazardous Air Pollutants for Asbestos promulgated in 40 CFR Part 61, Subparts A and M
National Emission Standard for Hazardous Air Pollutants for Site Remediation promulgated in 40 CFR Part 63, Subparts A and GGGGG
1994 PA 451, Section 324.5524 (Fugitive dust sources or emissions) and the provisions of the most-recently approved operating program received by the AQD

The processes and activities at the stationary source included in the ROPs for DDP, Dow, SK Saran, DAS/Corteva, and Trinseo LLC have no new large pollutant specific emission units since issuance of ROP-MI-A4033-2017 and the ROP Significant Modification application did not require Compliance Assurance Monitoring (CAM) plan submittals or revisions. CAM requirements from ROP-MI-A4033-2017b are carried forward in each emission unit or flexible group in the ROP.

The following 40 CFR Part 60, 61, and 63 federal requirements are applicable to processes and activities at the DDP facility.

EU94 and EUB2 at the DDP facility are subject to the Standards of Performance for New Stationary Sources for Volatile Organic Liquid Storage Vessels promulgated in 40 CFR Part 60, Subparts A and Kb.

EU95 at the DDP facility is subject to the Emission Guidelines and Compliance Times for Commercial and Industrial Solid Waste Incineration promulgated in 40 CFR Part 60, Subparts A and DDDD and they are included in the ROP.

FGBENZENEWASTE at the DDP facility is subject to the National Emission Standard for Hazardous Air Pollutants for Benzene Waste Operations promulgated in 40 CFR Part 61, Subparts A and FF.

EU04 applicable requirements were replaced with new applicable requirements from PTI No. 191-18, as this emission unit was modified.

EU04 at the DDP facility is subject to the National Emission Standard for Hazardous Air Pollutants for Miscellaneous Coating Manufacturing promulgated in 40 CFR Part 63, Subparts A and HHHHH.

EU04 at the DDP facility is subject to the National Emission Standard for Hazardous Air Pollutants for Equipment Leaks – Control Level 2 Standards promulgated in 40 CFR Part 63, Subparts A and UU.

EU04, E88, EU89, EUANION\_XCHG, EURESIN\_DRYER, EU94, EUB5, and FG963THROX at the DDP facility are subject to the National Emission Standard for Hazardous Air Pollutants for Miscellaneous Organic Chemical Manufacturing promulgated in 40 CFR Part 63, Subparts A and FFFF.

EU04, EU88, EU89, EUANION\_XCHG, EU94, EUB2, and EUB5 at the DDP facility are subject to the National Emission Standard for Hazardous Air Pollutants for Organic Liquids Distribution (Non-Gasoline) promulgated in 40 CFR Part 63, Subparts A and EEEE.

EU88, EU89, EUANION\_XCHG, EURESIN\_DRYER, EU94, EUB2, EUB5, and FG963THROX at the DDP facility are subject to the National Emission Standard for Hazardous Air Pollutants for Equipment Leaks promulgated in 40 CFR Part 63, Subparts A and H.

EUB2 and EU08 at the DDP facility is subject to the National Emission Standard for Hazardous Air Pollutants for Cellulose Products Manufacturing promulgated in 40 CFR Part 63, Subparts A and UUUU.

EUB5 at the DDP facility is subject to the National Emission Standard for Hazardous Air Pollutants for Synthetic Organic Chemical Manufacturing Industry for Process Vents, Storage Vessels, Transfer Operations, and Wastewater promulgated in 40 CFR Part 63, Subparts A, F, and G.

FG963THROX at the DDP facility receives exhaust from Trinseo LLC (SRN P1025) EUB1 and is subject to the National Emission Standard for Hazardous Air Pollutants for Group 1 Polymers and Resins promulgated in 40 CFR Part 63, Subpart U.

FGHCLSCRUBBER at the DDP facility receives exhaust from DAS/Corteva (SRN P1027) EU05 tanks that can hold HCL MACT subject production from DAS/Corteva EU11. The T-101 water scrubber portion of FGHCLSCRUBBER is used for control that DAS/Corteva must have per the HCL MACT but DDP is not the HCL production unit owner.

The AQD's Rules 287 and 290 were revised on December 20, 2016. FGRULE287(2)(c) and FGRULE290 are flexible group tables created for emission units subject to these rules. Emission units installed before December 20, 2016 can comply with the requirements of Rule 287 and Rule 290 in effect at the time of

installation or modification as identified in the tables. However, emission units installed or modified on or after December 20, 2016 must comply with the requirements of the current rules as outlined in the tables.

The monitoring conditions contained in the ROP are necessary to demonstrate compliance with all applicable requirements and are consistent with the "Procedure for Evaluating Periodic Monitoring Submittals."

The following Emission Units/Flexible Groups at DDP are subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM):

- EU89 is considered a small pollutant specific emission unit for volatile organic compounds (VOCs) as it has an emission limit for VOCs, potential pre-controlled VOC emissions greater than major source levels, a control device (thermal oxidizer TOX) that controls VOCs, and potential post-controlled emissions of VOCs less than major source thresholds. The thermal oxidizer is monitored for a minimum temperature. Refer to EU89 monitoring conditions in the renewable operating permit for specifics.
- EUANION\_EXCHG is considered a small pollutant specific emission unit for volatile organic compounds (VOCs) as it has an emission limit for VOCs, potential pre-controlled VOC emissions greater than major source levels, several control devices (scrubber 4, scrubber 6, and 963THROX) that controls VOCs, and potential post-controlled emissions of VOCs less than major source thresholds. Scrubber 4 is monitored for a minimum liquid flow rate. Scrubber 6 is monitored for a minimum liquid flow rate and a minimum pH. The 963THROX is monitored for a minimum temperature. Refer to EUANION\_EXCHG monitoring conditions in the renewable operating permit for specifics.
- EUB2 is considered a small pollutant specific emission unit for particulate matter (PM-10) as it has an emission limit for PM-10, potential pre-controlled PM-10 emissions greater than major source levels, several control devices (eleven baghouses) that control PM-10, and potential post-controlled emissions of PM-10 less than major source thresholds. The baghouses are monitored for differential pressure and visible emissions observations are conducted. Refer to EUB2 monitoring conditions in the renewable operating permit for specifics.
- EUB2 is considered a small pollutant specific emission unit for volatile organic compounds (VOCs) as it has an emission limit for VOCs, potential pre-controlled VOC emissions greater than major source levels, control devices (water scrubber T-1001, and 963THROX) that control VOCs, and potential post-controlled emissions of VOCs less than major source thresholds. The water scrubber is monitored for a minimum liquid flow rate and the 963THROX is monitored for a minimum temperature. Refer to EUB2 monitoring conditions in the renewable operating permit for specifics.
- EUB5 is considered a small pollutant specific emission unit for particulate matter (PM) as it has an emission limit for PM, potential pre-controlled PM emissions greater than major source levels, several control devices (297 scrubber, 803 scrubber, 803 baghouse, and 313 cyclone) that control PM, and potential post-controlled emissions of PM less than major source thresholds. The 297 and 803 scrubbers are monitored for a minimum liquid flow rate along with the 313 cyclone. The 803 baghouses are monitored for differential pressure and visible emissions. Refer to EUB5 monitoring conditions in the renewable operating permit for specifics.

Please refer to Parts B, C, and D in the draft ROP for detailed regulatory citations for the stationary source. Part A contains regulatory citations for general conditions.

**Source-Wide Permit to Install (PTI)**

Rule 214a requires the issuance of a Source-Wide PTI within the ROP for conditions established pursuant to Rule 201. All terms and conditions that were initially established in a PTI are identified with a footnote designation in the integrated ROP/PTI document.

The following table lists all individual PTIs that were incorporated into previous ROPs for process or process equipment currently owned by DDP. PTIs issued for DDP after the effective date of ROP No. MI-ROP-A4033-2017b for the stationary source are identified in Appendix 6 of the ROP.

PTI Number			
374-08 (EU88)	190-12A (EU89)	233-74I (EUANION_XCHG)	570-93A (EURESIN_DRYER)
694-88A (EU95)	7-04A (EUB2)	83-13 (EUB5)	1311-90C (EU94)

**Streamlined/Subsumed Requirements**

This ROP does not include any streamlined/subsumed requirements pursuant to Rules 213(2) and 213(6).

**Non-applicable Requirements**

Part E of the ROP lists requirements that are not applicable to this source as determined by the AQD, if any were proposed in the ROP Application. These determinations are incorporated into the permit shield provision set forth in Part A (General Conditions 26 through 29) of the ROP pursuant to Rule 213(6)(a)(ii).

**Processes in Application Not Identified in Draft ROP**

The following table lists processes that were included in the ROP Application as exempt devices under Rule 212(4). These processes are not subject to any process-specific emission limits or standards in any applicable requirement.

PTI Exempt Emission Unit ID	Description of PTI Exempt Emission Unit	Rule 212(4) Citation	PTI Exemption Rule Citation
EU-RULE282a	Processes or process equipment which are electrically heated or which fire sweet gas fuel or no. 1 or no. 2 fuel oil at a maximum total heat input rate of not more than 10,000,000 BTU per hour and meet the criteria of R 336.1282(2)(a).	Rule 282(2)(a)	Rule 212(4)(c)
EU-RULE282b	Fuel burning equipment, which is used for space heating, service water heating, electric power generation, oil and gas production or processing, or indirect heating which only burns the fuel specified in R 336.128(2)(b).	Rule 282(2)(b)	Rule 212(4)(c)
EU-RULE282b	Storage of butane, propane, or liquified petroleum gasoline in a vessel that has a capacity of less than 40,000 gallons.	Rule 282(2)(b)	Rule 212(4)(d)
EU-RULE284g	Gasoline or natural gas storage and handling equipment as follows: Gasoline storage and handling equipment at loading facilities	Rule 284(2)(g)	Rule 212(4)(d)

PTI Exempt Emission Unit ID	Description of PTI Exempt Emission Unit	Rule 212(4) Citation	PTI Exemption Rule Citation
	handling less than 20,000 gallons per day or at dispensing facilities.		
EU-RULE284i	Storage or transfer operations of volatile organic compounds or noncarcinogenic liquids in a vessel that has a capacity of not more than 40,000 gallons where the contents have a true vapor pressure of not more than 1.5 psia at the actual storage conditions.	Rule 284(2)(i)	Rule 212(4)(d)
EU-RULE285g	Internal combustion engines that have less than 10,000,000 BTU/hour maximum heat input.	Rule 285(2)(g)	Rule 212(4)(e)
EU-RULE285vi	Equipment for carving, cutting, routing, turning, drilling, machining, sawing, surface grinding, sanding, planing, buffing, sand blast cleaning, shot blasting, shot peening, or polishing ceramic artwork, leather, metals, graphite, plastics, concrete, rubber, paper board, wood, wood products, stone, glass, fiberglass, or fabric which meets the requirements of 285(2)(l)(vi)	Rule 285(2)(l)(vi)	Rule 212(4)(e)
EU-RULE291	Permit to install exemptions; emission units with limited emissions	Rule 291(2)	Rule 212(4)(i)

**Draft ROP Terms/Conditions Not Agreed to by Applicant**

This draft ROP does not contain any terms and/or conditions that the AQD and the applicant did not agree upon pursuant to Rule 214(2).

**Compliance Status**

The AQD finds that the stationary source is expected to be in compliance with all applicable requirements as of the effective date of this ROP.

**Action taken by EGLE, AQD**

The AQD proposes to approve this ROP. A final decision on the ROP will not be made until the public and affected states have had an opportunity to comment on the AQD's proposed action and draft permit. In addition, the USEPA is allowed up to 45 days to review the draft ROP and related material. The AQD is not required to accept recommendations that are not based on applicable requirements. The delegated decision maker for the AQD is Chris Hare, Bay City District Supervisor. The final determination for ROP approval/disapproval will be based on the contents of the ROP Application, a judgment that the stationary source will be able to comply with applicable emission limits and other terms and conditions, and resolution of any objections by the USEPA.

State Registration Number

P1027

## RENEWABLE OPERATING PERMIT

ROP Number

MI-ROP-P1027-  
2020

### OCTOBER 19, 2020 - STAFF REPORT ADDENDUM

#### Purpose

A Staff Report dated August 10, 2020, was developed to set forth the applicable requirements and factual basis for the draft Renewable Operating Permit (ROP) terms and conditions as required by Rule 214(1) of the administrative rules promulgated under Act 451. The purpose of this Staff Report Addendum is to summarize any significant comments received on the draft ROP during the 30-day public comment period as described in Rule 214(3). In addition, this addendum describes any changes to the draft ROP resulting from these pertinent comments.

#### General Information

Responsible Official:	Joe Guerrieri, Michigan Operations Site Leader 302-584-8886
AQD Contact:	Kathy Brewer, Senior Environmental Quality Analyst 989-439-2100, brewerk@michigan.gov

#### Summary of Pertinent Comments

On September 8, 2020, comments were received from the United States Environmental Protection Agency, Region 5 on the draft ROP Significant Modification for DDP Specialty Electronic Materials US, Inc. (DDP).

1. *The conditions in the ROP will remain in effect for five years after the date of issuance. Recent revisions to the OLD MACT, MON MACT, and Coatings MACT have created several additional requirements that may apply to the source during the term of the permit once issued. Applicability of the new requirements has not been evaluated as part of this permit action.*

The revisions to the OLD MACT, MON MACT, and COATINGS MACT standards promulgated were effective on July 7, 2020, August 12, 2020, and August 14, 2020, respectively. For existing sources, EPA established a compliance date of no later than 3 years after the effective date of the final rule for most requirements

Future applicable dates are not included in a ROP at the time of issuance. DDP is required to notify EGLE AQD of new applicable requirements through the ROP Modification process and updates to NOCS reports. The requirements for affected processes at DDP will then be incorporated into the ROP as appropriate. EGLE AQD will evaluate compliance pursuant to the MACT revision.

Considering the complexity of the facility and frequent process changes, attempting to preemptively determine when and which sources and activities will be subject to the varied requirements and dates as part of this ROP issuance would likely result in inaccurate and incorrect requirements being incorporated into the ROP.

2. *EU94 condition I.1 is marked as a state-only enforceable requirement, citing R 336.1225 as its underlying applicable requirement. However, conditions IV.1, VI.1, and VI.2 are each marked as federally enforceable, making it unclear as to whether each requirement is appropriately designated as federally or state-only enforceable. We request that you verify whether each requirement applicable*

*to EU94 is correctly designated as federally or state-only enforceable and provide appropriate justification of the designation in the record*

The emission limit in EU94 Special Condition I.1 has an underlying applicable requirement of R 336.1225 which is for a toxic air contaminant with a health-based screening level that is a state only enforceable condition. The design/equipment parameter in Special Condition IV.1 and the Monitoring/Recordkeeping requirement in Special Condition VI.1 and VI.2 have an underlying applicable requirement of R 336.1910 in addition to R 336.1225. The Special Conditions IV.1, VI.1, and VI.2 are conditions originally included in a permit pursuant to R 336.1201(a) for any air pollutant regulated by title I of the clean air act and its associated rules, including 40 CFR 51.165 and 40 CFR 51.166, adopted by reference in R 336.1902 and included in permits as part of the Michigan State Implementation Plan.

**Changes to the August 10, 2020 Draft ROP**

No changes were made to the draft ROP.

State Registration Number

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## RENEWABLE OPERATING PERMIT

**MARCH 1, 2021 - STAFF REPORT FOR RULE 216(2)  
MINOR MODIFICATION**

ROP Number

MI-ROP-P1027-  
2020a

### Purpose

On December 8, 2020, the Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD), approved and issued Renewable Operating Permit (ROP) No. MI-ROP-P1027-2020 to DDP Specialty Electronic Materials US, LLC pursuant to Rule 214 of the administrative rules promulgated under Act 451. Once issued, a company is required to submit an application for changes to the ROP as described in Rule 216. The purpose of this Staff Report is to describe the changes that were made to the ROP pursuant to Rule 216(2).

### General Information

Responsible Official:	Joe Guerrieri, Michigan Operations Site Leader, Section 1 – DDP Specialty Electronic Materials US, LLC 302-584-8886  Stephen Persyn, Michigan Operations Site Leader, Section 2 – Nutrition & Biosciences USA 1, LLC 989-264-7031
AQD Contact:	Caryn E. Owens, Environmental Engineer 231-878-6688
Application Number:	2020000165
Date Application for Minor Modification was Submitted:	October 28, 2020

### Regulatory Analysis

The AQD has determined that the change requested by the stationary source meets the qualifications for a Minor Modification pursuant to Rule 216(2).

### Description of Changes to the ROP

Minor Modification No. 2020000165 was to reflect equipment owned by the DDP and the equipment owned and operated by a new company N&B. The ROP was separated into two Sections since a portion of DDP was owned and operated by N&B as of November 1, 2020. The Emission Unit EU06 is split into a low purity portion EU06-LOWPURITY included in Section 1, and a high purity portion EU06-HIGHPURITY included in Section 2. The Emission Units and Flexible Groups Conditions remain unchanged, except for moving specific ones under their new owners.

### Compliance Status

The AQD finds that the stationary source is expected to be in compliance with all applicable requirements associated with the emission unit(s) involved with the change as of the date of approval of the Minor Modification to the ROP.

## **Action Taken by EGLE**

The AQD proposes to approve a Minor Modification to ROP No. MI-ROP-P1027-2020, as requested by the stationary source. A final decision on the Minor Modification to the ROP will not be made until any affected states and the United States Environmental Protection Agency (USEPA) has been allowed 45 days to review the proposed changes to the ROP. The delegated decision maker for the AQD is the District Supervisor. The final determination for approval of the Minor Modification will be based on the contents of the permit application, a judgment that the stationary source will be able to comply with applicable emission limits and other requirements, and resolution of any objections by any affected states or the USEPA.

State Registration Number  
P1027

**RENEWABLE OPERATING PERMIT**  
**NOVEMBER 10, 2022 - STAFF REPORT FOR RULE**  
**216(2) MINOR MODIFICATION**

ROP Number  
MI-ROP-P1027-2020b

**Purpose**

On April 16, 2021, the Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD), approved and issued Renewable Operating Permit (ROP) No. MI-ROP-P1027-2020a to DDP Specialty Electronic Materials US, LLC pursuant to Rule 214 of the administrative rules promulgated under Act 451. Once issued, a company is required to submit an application for changes to the ROP as described in Rule 216. The purpose of this Staff Report is to describe the changes that were made to the ROP pursuant to Rule 216(2).

**General Information**

Responsible Official- Section 1:	Jessica Snyder, Michigan Operations Site Leader, DDP Specialty Electronic Materials US, LLC
Responsible Official – Section 2:	Stephen Persyn, Michigan Operations Site Leader, Nutrition & Biosciences USA 1, LLC 989-264-7031
AQD Contact:	Caryn E. Owens, Senior Environmental Engineer 231-878-6688
Application Number:	202200197
Date Application for Minor Modification was Submitted:	October 10, 2022

**Regulatory Analysis**

The AQD has determined that the change requested by the stationary source meets the qualifications for a Minor Modification pursuant to Rule 216(2).

**Description of Changes to the ROP**

Incorporate PTI No. 183-19 into Section 1 of the ROP, which was for EU88 to include changes and corrections, along with updated emission information. EU88 is part of the ion exchange resin manufacturing complex at the facility, and is known as the “Cation process.” PTI No. 183 19 updates the facility’s emissions and impacts with the most current information. There are no changes to the process itself, although two additional vents will now be exhausted to the 963 THROX.

This PTI was not required to go through the public participation process.

**Compliance Status**

The AQD finds that the stationary source is expected to be in compliance with all applicable requirements associated with the emission unit(s) involved with the change as of the date of approval of the Minor Modification to the ROP.

## **Action Taken by EGLE**

The AQD proposes to approve a Minor Modification to ROP No. MI-ROP-P1027-2020a, as requested by the stationary source. A final decision on the Minor Modification to the ROP will not be made until any affected states and the United States Environmental Protection Agency (USEPA) has been allowed 45 days to review the proposed changes to the ROP. The delegated decision maker for the AQD is the District Supervisor. The final determination for approval of the Minor Modification will be based on the contents of the permit application, a judgment that the stationary source will be able to comply with applicable emission limits and other requirements, and resolution of any objections by any affected states or the USEPA.