

Michigan Department of Environment, Great Lakes, and Energy  
Air Quality Division

State Registration Number  
N0895

**RENEWABLE OPERATING PERMIT  
STAFF REPORT**

ROP Number  
MI-ROP-N0895-2024

**Lacks Enterprises, Inc.**

State Registration Number (SRN): N0895

Located at

4260 Airplane Road SE, Kentwood, Kent County, Michigan 49512

Permit Number: MI-ROP-N0895-2024

Staff Report Date: May 27, 2024

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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State Registration Number

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## RENEWABLE OPERATING PERMIT

May 27, 2024 - STAFF REPORT

ROP Number

MI-ROP-N0895-2024

### 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:	Lacks Enterprises, Inc. 4260 Airline Road SE Kentwood, Michigan 49512
Source Registration Number (SRN):	N0895
North American Industry Classification System (NAICS) Code:	336399
Number of Stationary Source Sections:	1
Is Application for a Renewal or Initial Issuance?	Renewal
Application Number:	202200131
Responsible Official:	Jim Morrissey, General Plant Manager 616-554-7860
AQD Contact:	April Lazzaro, Senior Environmental Quality Analyst 616-558-0552
Date Application Received:	June 23, 2022
Date Application Was Administratively Complete:	June 23, 2022
Is Application Shield in Effect?	Yes
Date Public Comment Begins:	May 27, 2024
Deadline for Public Comment:	June 26, 2024

## Source Description

The Lacks Enterprises, Inc. Airplane Road facility is located in Kentwood, Kent County, Michigan. The facility is located at the edge of an industrial park with residential areas to the northwest, west, and southwest. Lacks Enterprises, Inc. Airplane Road facility manufactures exterior plastic automotive parts. The stationary source consists of four facilities: the Airplane North and South plating facilities, Airwest Mold, and Airplane Northwest Molding.

The Airplane North and South facilities primarily conduct decorative chrome plating on plastic parts. The process consists of pre-treatment, alkaline cleaning, acid dipping, and strike plating of copper, copper/nickel electroplating, nickel electroplating, chromium etching, and chromium electroplating. Electroless copper or nickel electroplating, conditioner, and rack stripping are controlled by wet scrubbers while the chrome plating and etching are controlled by composite mesh pad scrubbers. Airplane South has been temporarily shut down since February 22, 2019, and has not conducted decorative chrome plating since then. Lacks Enterprises, Inc. conducts scaled down, non-production nickel electroplating for research and development purposes at Airplane South.

The Airplane Northwest and Airwest Mold facilities conduct plastic injection molding using acrylonitrile, butadiene, styrene (ABS) copolymer, and ABS blended with a polycarbonate called HIPP (high impact plastic) that is more temperature and impact resistant.

The following table lists stationary source emission information as reported in the Annual Air Emissions Report I for the year **2023**.

### **TOTAL STATIONARY SOURCE EMISSIONS**

<b>Pollutant</b>	<b>Tons per Year</b>
Carbon Monoxide (CO)	1.02
Lead (Pb)	0
Nitrogen Oxides (NO <sub>x</sub> )	5.11
Particulate Matter (PM)	0.51
Sulfur Dioxide (SO <sub>2</sub> )	0.03
Volatile Organic Compounds (VOCs)	12.89
Ammonia	0.46
<b>Total</b>	<b>20.02</b>

The following table lists Hazardous Air Pollutant emissions as calculated for the year 2023 by Lacks Enterprises, Inc.:

<b>Individual Hazardous Air Pollutants (HAPs) **</b>	<b>Tons per Year</b>
Acetaldehyde	0.0005
Acrolein	0.0002
Acrylic Acid	0.0002
Formaldehyde	0.41
Methanol	11.73
Nickel	0.01
Propionaldehyde	0.0002
<b>Total Hazardous Air Pollutants (HAPs)</b>	<b>12.15</b>

\*\*As listed pursuant to Section 112(b) of the federal Clean Air Act.

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 Kent 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 of volatile organic compounds exceeds 100 tons per year and the potential to emit of any single HAP regulated by Section 112 of the federal Clean Air Act 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.

No emission units at the stationary source are currently subject to the Prevention of Significant Deterioration regulations of Part 18, Prevention of Significant Deterioration of Air Quality of Act 451, because at the time of New Source Review (NSR) permitting, the potential to emit of volatile organic compounds was less than 250 tons per year.

The stationary source went through toxics review under Rule 224 and Rule 225 for a variety of pollutants including total chromium, total nickel, formaldehyde, methanol, ammonia, 1,3-dichloro-2-propanol and nitric acid.

The injection molding processes are exempt from NSR permitting under Rule 286 and are not included in the ROP pursuant to Rule 212(3).

The research and development use of the nickel electroplating tanks are exempt from NSR permitting under Rule 283 and are not included in the ROP pursuant to Rule 212(3).

EUPN-12, EUPS-7, and EUCHROME4 at the stationary source are subject to the National Emission Standard for Hazardous Air Pollutants for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks promulgated in 40 CFR Part 63, Subparts A and N.

EUBOILER1-S, EUBOILER2-S, EUBOILER1-N, and EUBOILER2-N at the stationary source are subject to the National Emissions Standards for Hazardous Air Pollutants for Boilers and Process Heaters at major sources of Hazardous Air Pollutants promulgated in 40 CFR Part 63, Subparts A and DDDDD.

EUALNWGENSET at the stationary source is subject to the Maximum Achievable Control Technology Standards for Reciprocating Internal Combustion Engines promulgated in 40 CFR Part 63, Subparts A and ZZZZ.

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."

On November 20, 2023, Administrative Consent Order No. 19-2023 was signed. The AQD alleged that Lacks Enterprises, Inc. failed to comply with MI-ROP-N0895-2018a and Rule 910 for failure to properly maintain and operate the composite mesh pad scrubber system for the three hexavalent decorative chrome plating tanks (EUPN-10) and the three hexavalent chrome etch tanks (EUPN-12) and for failure to maintain surface tension below 45 dynes per centimeter (dynes/cm) on tanks 1 and 3 of EUPN-10. The conditions of the Administrative Consent Order were incorporated into the permit.

No emission units have emission limitations or standards that are subject to the federal Compliance Assurance Monitoring rule pursuant to 40 CFR Part 64 because all emission units at the stationary source either do not have a control device or those with a control device do not have a federally enforceable emission limitation and potential pre-control emissions that are over the major source thresholds.

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. PTIs issued after the effective date of ROP No. MI-ROP-N0895-2018 are identified in Appendix 6 of the ROP.

PTI Number			
83-11	120-17	267-05A	285-01
383-98			

### **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
EUAIRMAKEUP	Campus (6) buildings natural gas usage, air makeup units and heaters	R 336.214(4)(c)	R 336.282(2)(b)(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 Heidi Hollenbach, Grand Rapids 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.

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**RENEWABLE OPERATING PERMIT**  
**June 27, 2024 - STAFF REPORT ADDENDUM**

ROP Number  
MI-ROP-N0895-2024

**Purpose**

A Staff Report dated May 27, 2024, 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:	Jim Morrissey, General Plant Manager 616-554-7860
AQD Contact:	April Lazzaro, Senior Environmental Quality Analyst 616-558-0552

**Summary of Pertinent Comments**

No pertinent comments were received during the 30-day public comment period.

**Changes to the May 27, 2024 Draft ROP**

No changes were made to the draft ROP.