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

**PHASE II ACID RAIN PERMIT**

**Permit No. MI-AR-1702-2022**

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| Permittee | Consumers Energy – Dan E Karn Plant |
| Address | 2742 N. Weadock Highway, Essexville, MI |
| SRN | B2840 |
| Plant Code | 1702 |
| Issue Date | July 27, 2022 |
| Effective | Issuance date of this facility’s Renewable Operating Permit at the facility in accordance with 40 CFR 72.73. |
| Expiration | This permit shall expire when the facility’s Renewable Operating Permit expires, in accordance with 40 CFR 72.73. |
| ROP No. | MI-ROP-B2840-2022 |

**The Acid Rain Permit Contents**

1. A statement of basis prepared by the Air Quality Division (AQD) containing:

References to statutory and regulatory authorities, and with comments, notes, and justification that apply to the source in general;

2. Terms and conditions including:

A table of sulfur dioxide allowances to be allocated during the term of the permit, if applicable, authorized by this permit during Phase II. Unless they are subject to Sections 405(g)(2) or (3) of the federal Clean Air Act, new units are not allocated allowances in 40 CFR Part 73 and must obtain allowances by other means (Section 403(e) of the federal Clean Air Act);

Comments, notes and justifications regarding permit decisions and changes made to the permit application forms during the review process, and any additional requirements; and,

Any applicable nitrogen oxides compliance plan. Unless they are coal fired utility units regulated pursuant to Sections 404, 405, or 409 of the federal Clean Air Act, new units are not subject to the acid rain nitrogen oxides requirements (40 CFR 76.1(a)).

3. The permit application that this source submitted, as corrected by the AQD. The owners and operators of the source must comply with the standard requirements and special provisions set forth in the application.

**Statement of Basis**

**Statutory and Regulatory Authorities.**

In accordance with the Natural Resources and Environmental Protection Act, 1994 PA 451 and Titles IV and V of the federal Clean Air Act, the Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division (AQD), issues this permit pursuant to the provisions of R 336.1210 to R 336.1218, and R 336.1902(1)(q).

For further information contact:

Mr. Brian Carley

Environmental Quality Specialist

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**There are no comments, notes and/or justification that apply to the source in general for this section.**

**Terms and Conditions:**

**Phase II Sulfur Dioxide Allowance Allocation and Nitrogen Oxides Requirements for each affected unit.**

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|  |  | 2022 | 2023 | 2024 | 2025 | 2026 |
| Unit 1 | SO2 allowances | 7825 | 7825 | 7825 | 7825 | 7825 |
| NOx Limit | Pursuant to 40 CFR part 76, the State of Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division approves a NOx standard emissions limitation compliance plan for Unit 1. The NOx compliance plan is effective beginning 2017. Under the NOx compliance plan, this unit’s annual average NOx emissions rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.7(a)(2), of **0.40 lb/MMBTU** for Phase II tangentially fired boilers.  In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions. | | | | |

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|  |  | 2022 | 2023 | 2024 | 2025 | 2026 |
| Unit 2 | SO2 allowances | 8582 | 8582 | 8582 | 8582 | 8582 |
| NOx Limit | Pursuant to 40 CFR part 76, the State of Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division approves a NOx standard emissions limitation compliance plan for Unit 2. The NOx compliance plan is effective beginning 2017. Under the NOx compliance plan, this unit’s annual average NOx emissions rate for each year, determined in accordance with 40 CFR part 75, shall not exceed the applicable emission limitation, under 40 CFR 76.7(a)(2), of **0.46 lb/MMBTU** for Phase II dry bottom wall- fired boilers.  In addition to the described NOx compliance plan, this unit shall comply with all other applicable requirements of 40 CFR part 76, including the duty to reapply for a NOx compliance plan and requirements covering excess emissions. | | | | |

**Terms and Conditions (cont.):**

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|  |  | 2022 | 2023 | 2024 | 2025 | 2026 |
| Unit 3 | SO2 allowances | 1,023 | 1,023 | 1,023 | 1,023 | 1,023 |

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|  |  | 2022 | 2023 | 2024 | 2025 | 2026 |
| Unit 4 | SO2 allowances | 949 | 949 | 949 | 949 | 949 |

**Comments, notes and justifications regarding permit decisions, and changes made to the permit application forms during the review process: None.**

**Permit Application**: (attached)

*Acid Rain Permit Application submitted April 16, 2019*

*NOx Compliance Plan submitted June 29, 2017*

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Diagram

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