

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
OFFICE OF THE DIRECTOR

In the matter of administrative proceedings
against **CORTEVA AGRISCIENCE LLC**, a
corporation organized under the laws of the
State of Michigan and doing business at
305 North Huron Avenue in the City of
Harbor Beach, County of Huron, State of
Michigan

AQD No. 2023-09

SRN: B4942

STIPULATION FOR ENTRY OF FINAL ORDER
BY CONSENT

This proceeding resulted from allegations by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Air Quality Division (AQD) against Corteva Agriscience LLC (Company), a corporation organized under the laws of the State of Michigan and doing business at 305 North Huron Avenue, City of Harbor Beach, County of Huron, State of Michigan, with State Registration Number (SRN) B4942. EGLE alleges that the Company is in violation of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Pesticide Active Ingredient Production, Title 40 of the Code of Federal Regulations, Part 63, Subpart MMM (Subpart MMM); Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), MCL 324.5501 *et seq.*, Rule 201 and Rule 910 of the Michigan Air Pollution Control Rules, Mich Admin Code, R 336.1201 and R 336.1910; and the conditions of Renewable Operating Permit (ROP) No. MI-ROP-B4942-2020a. Specifically, EGLE alleges that the Company exceeded the permitted emission limits for organic hazardous air pollutants (OHAP) and volatile organic compounds (VOC) from EUPROCESS; failed to operate the control devices for EUPROCESS in a satisfactory manner to limit OHAP emissions; deviated from the permitted hourly average combustion air to natural gas ratio range; and emitted additional formaldehyde emissions from EUPROCESS that were not included in Permit to Install No. 107-18B, which has been rolled into MI-ROP-B4942-2020a, as cited herein and in the Violation Notice dated August 5, 2021. The Company and EGLE stipulate to the termination of this proceeding by entry of a Stipulation for Entry of a Final Order by Consent (Consent Order).

The Company and EGLE stipulate as follows:

1. The NREPA MCL 324.101 *et seq.*, is an act that controls pollution to protect the environment and natural resources in this State.

2. Article II, Pollution Control, Part 55 of the NREPA (Part 55), MCL 324.5501 *et seq.*, provides for air pollution control regulations in this State.

3. Executive Order 2019-06 renamed the Michigan Department of Environmental Quality as EGLE, and EGLE has all statutory authority, powers, duties, functions, and responsibilities to administer and enforce all provisions of Part 55.

4. The EGLE Director has delegated authority to the Director of the AQD (AQD Director) to enter into this Consent Order.

5. The termination of this matter by a Consent Order pursuant to Section 5528 of Part 55, MCL 324.5528, is proper and acceptable.

6. The Company and EGLE agree that the signing of this Consent Order is for settlement purposes only and does not constitute an admission by the Company that the law has been violated.

7. This Consent Order becomes effective on the date of execution (Effective Date of this Consent Order) by the AQD Director.

8. The Company shall achieve compliance with the aforementioned regulations in accordance with the requirements contained in this Consent Order.

COMPLIANCE PROGRAM AND IMPLEMENTATION SCHEDULE

9. On and after the Effective Date of this Consent Order, the Company shall operate Thermal Treatment Unit (TTU) 850, TTU 860, and TTU 865 in accordance with Rule 910.

10. Permit

A. On and after the Effective Date of this Consent Order, the Company shall comply with the OHAP emission limits for EUPROCESS as specified in Conditions I.1, I.3, and I.4 of PTI No. 107-18C as amended, and the applicable requirements of 40 CFR 63.1362(b).

B. On and after the Effective Date of this Consent Order, the Company shall properly operate EUPROCESS as specified in Condition IV.3(a)(i) of PTI No. 107-18C, as amended.

C. On and after the Effective Date of this Consent Order, the Company shall comply with the VOC emission limit for EUPROCESS as specified in Condition I.6 Permit No. 107-18C, as amended.

D. On and after the Effective Date of this Consent Order, the Company shall comply with the formaldehyde emission limit for EUPROCESS as specified in Condition I.11 of Permit No. 107-18C, as amended.

11. FTIR Monitor

A. No later than November 8, 2023, the Company shall install and commence operation of a Fourier transform infrared (FTIR) spectroscopy monitor to measure the emission concentration of OHAP and VOC.

B. The Company shall notify the AQD Bay City District Supervisor, in writing, no later than seven (7) days after the completion of activities specified in paragraph 11.A.

12. Testing

A. FTIR System Certification Test

1. Within thirty (30) days after installation of the FTIR monitoring system, the Company shall submit a system certification test plan for OHAP and VOC emission limits from EUPROCESS to the AQD Bay City District Supervisor and the AQD Technical Programs Unit Supervisor for approval prior to testing.

2. No later than forty-five (45) days following the AQD approval of the FTIR system certification test plan submitted by the Company pursuant to paragraph 12.A.1, the Company shall conduct FTIR system certification performance testing demonstrating compliance with the OHAP and VOC emission limits for EUPROCESS.

3. Not less than seven (7) days prior to testing, the Company or an authorized agent shall notify the AQD Bay City District Supervisor and the AQD Technical Programs Unit Supervisor, in writing, of the time and place of the tests and who shall conduct them. A representative of the AQD shall have the opportunity to witness the tests.

4. Within forty-five (45) days after the completed test, the Company shall submit to the AQD Bay City District Supervisor and the AQD Technical Programs Unit Supervisor, a test report, which includes the test data and results.

B. Monthly FTIR Testing

1. On and after the Effective Date of this Consent Order, the Company shall perform monthly FTIR testing of OHAP and VOC emissions until the FTIR monitor described in paragraph 11 is installed and operational.

2. Within thirty (30) days after each completed test, the Company shall submit to the AQD Bay City District Supervisor a test report, which includes the test data and results.

13. Plans

A. On and after the Effective Date of this Consent Order, the Company shall not operate EUPROCESS unless the Catalyst Inspection and Maintenance Plan, approved by the AQD on July 26, 2022, is implemented. The approved Catalyst Inspection and Maintenance Plan requires a minimum of one (1) spare catalyst on site. The AQD-approved Catalyst Inspection and Maintenance Plan and any subsequent revisions shall be incorporated into this Consent Order and shall be made an enforceable part of this Consent Order.

B. On September 20, 2022, United States Environmental Protection Agency approved the Company's revised Alternative Monitoring Request (AMR). On and after the date the FTIR system specified in the revised Alternative Monitoring Request is operational, the Company shall not operate the air pollution control equipment identified as EUPROCESS in PTI No. 107-18C as amended, unless the FTIR system is operational and the AMR is implemented. The Company shall maintain the records and procedures demonstrating that the AMR is being implemented according to its terms and conditions. The revised AMR and any subsequent revisions shall be incorporated into this Consent Order and shall be made an enforceable part of this Consent Order.

14. Force Majeure

A. The Company shall perform the requirements of this Consent Order within the time limits established herein, unless performance is prevented or delayed by events that constitute a "Force Majeure." Any delay in the performance attributable to a "Force Majeure" shall not be deemed a violation of the Company's obligations under this Consent Order in accordance with this section.

B. For the purpose of this Consent Order, "Force Majeure" means an occurrence or nonoccurrence arising from causes not foreseeable, beyond the control of, and without the fault of the Company, such as but not limited to: an Act of God, untimely review of permit applications or submissions by EGLE or other applicable authority, and acts or omissions of third parties that could

not have been avoided or overcome by the Company's diligence and that delay the performance of an obligation under this Consent Order. "Force Majeure" does not include, among other things, unanticipated or increased costs, changed financial circumstances, or failure to obtain a permit or license as a result of the Company's actions or omissions.

C. The Company shall notify EGLE, by telephone or email, within forty-eight (48) hours of discovering any event that may cause a delay in its compliance with any provision of this Consent Order. Verbal notice shall be followed by written notice within ten (10) calendar days and shall describe, in detail, the anticipated length of delay, the precise cause or causes of delay, the measures taken by the Company to prevent or minimize the delay, and the timetable by which those measures shall be implemented. The Company shall adopt all reasonable measures to avoid or minimize any such delay.

D. Failure of the Company to comply with the notice requirements and time provisions under paragraph 14.C to the extent practicable shall render this paragraph 14 void and of no force and effect as to the particular incident involved. EGLE may, at its sole discretion and in appropriate circumstances, waive in writing the notice requirements of paragraph 14.C above.

E. If the parties agree that the delay or anticipated delay were beyond the control of the Company, this may be so stipulated, and the parties to this Consent Order may agree upon an appropriate modification of this Consent Order. However, EGLE is the final decision-maker on whether or not the matter at issue constitutes a "Force Majeure". The burden of proving that any delay was beyond the reasonable control of the Company, and that all the requirements of this paragraph 14 have been met by the Company, rests with the Company.

F. An extension of one compliance date based upon a particular incident does not necessarily mean that the Company qualifies for an extension of a subsequent compliance date without providing proof regarding each incremental step or other requirement for which an extension is sought.

GENERAL PROVISIONS

15. On and after the Effective Date of this Consent Order, except as otherwise provided by the administrative rules of Part 55, the Company shall not install, construct, reconstruct, relocate, or modify any process or process equipment including control equipment pertaining thereto, which may

emit an air contaminant, unless a permit to install which authorizes such action is issued by EGLE pursuant to Rule 201, the Company is issued a waiver pursuant to Rule 202, or the change is exempt from the requirements of Rule 201.

16. This Consent Order in no way affects the Company's responsibility to comply with any other applicable state, federal, or local laws or regulations, including without limitation, any amendments to the federal Clean Air Act, 42 USC 7401 *et seq.*, Part 55, or their rules and regulations, or to the State Implementation Plan.

17. This Consent Order constitutes a civil settlement and satisfaction as to the resolution of the violations specifically addressed herein; however, it does not resolve any criminal action that may result from these same violations.

18. Within thirty (30) days after the Effective Date of this Consent Order, the Company shall pay to the General Fund of the State of Michigan, in the form of a check made payable to the "State of Michigan" and mailed to the Michigan Department of Environment, Great Lakes, and Energy, Accounting Services Division, Cashier's Office, P.O. Box 30657, Lansing, Michigan 48909-8157, a settlement amount of \$157,080.00, which includes the AQD costs for investigation and enforcement. This total settlement amount shall be paid within thirty (30) days after the Effective Date of this Consent Order. To ensure proper credit, all payments made pursuant to this Consent Order shall include the "Payment Identification Number AQD40309" on the front of the check and/or in the cover letter with the payment. This settlement amount is in addition to any fees, taxes, or other fines that may be imposed on the Company by law.

19. On and after the Effective Date of this Consent Order, if the Company fails to comply with paragraph 11.A or 12.A.2 of this Consent Order, the Company is subject to a stipulated fine of up to \$5,000.00 per violation per day. On and after the Effective Date of this Consent Order, if the Company fails to comply with paragraph 9, 12.A.1, 12.B.1, or 13 of this Consent Order, the Company is subject to a stipulated fine of up to \$2,500.00 per violation per day. On and after the Effective Date of this Consent Order, if the Company fails to comply with paragraph 11.B, 12.A.3, 12.A.4, or 12.B.2 of this Consent Order, the Company is subject to a stipulated fine of up to \$500.00 per violation per day. On and after the Effective Date of this Consent Order and until the FTIR monitoring system described in paragraph 11.A is installed and operational, if the Company fails to comply with paragraph 10 of this Consent Order, the Company is subject to a stipulated fine of up to \$1,000.00 per violation per day. On and after the date the FTIR monitoring system described in paragraph 11.A

is installed and operational, if the Company fails to comply with paragraph 10 of this Consent Order, the Company is subject to a stipulated fine of up to \$2,500.00 per violation per day. The amount of the stipulated fines imposed pursuant to this paragraph shall be within the discretion of the EGLE. Stipulated fines submitted under this Consent Order shall be by check, payable to the State of Michigan within thirty (30) days after written demand and shall be mailed to the Michigan Department of Environment, Great Lakes, and Energy, Accounting Services Division, Cashier's Office, P.O. Box 30657, Lansing, Michigan 48909-8157. To ensure proper credit, all payments shall include the "Payment Identification Number AQD40309-S" on the front of the check and/or in the cover letter with the payment. Payment of stipulated fines shall not alter or modify in any way the Company's obligation to comply with the terms and conditions of this Consent Order.

20. The AQD, at its discretion, may seek stipulated fines or statutory fines for any violation of this Consent Order which is also a violation of any provision of applicable federal and state law, rule, regulation, permit, or EGLE administrative order. However, the AQD is precluded from seeking both a stipulated fine under this Consent Order and a statutory fine for the same violation.

21. To ensure timely payment of the settlement amount assessed in paragraph 16 and any stipulated fines assessed pursuant to paragraph 17 of this Consent Order, the Company shall pay an interest penalty to the State of Michigan each time it fails to make a complete or timely payment under this Consent Order. The interest penalty shall be determined at a rate of twelve percent (12%) per year compounded annually, using the full increment of amount due as principal, calculated from the due date specified in this Consent Order until the date that delinquent payment is finally paid in full. Payment of an interest penalty by the Company shall be made to the State of Michigan in accordance with paragraph 16 of this Consent Order. Interest payments shall be applied first towards the most overdue amount or outstanding interest penalty owed by the Company before any remaining balance is applied to subsequent payment amount or interest penalty.

22. The Company agrees not to contest the legal basis for the settlement amount assessed pursuant to paragraph 16. The Company also agrees not to contest the legal basis for any stipulated fines assessed pursuant to paragraph 17 of this Consent Order but reserves the right to dispute in a court of competent jurisdiction the factual basis upon which a demand by EGLE of stipulated fines is made. In addition, the Company agrees that said fines have not been assessed by EGLE pursuant to Section 5529 of Part 55, MCL 324.5529, and therefore are not reviewable under Section 5529 of Part 55.

23. This compliance program is not a variance subject to the 12-month limitation specified in Section 5538 of Part 55, MCL 324.5538.

24. This Consent Order shall remain in full force and effect for a period of at least three (3) years. Thereafter, this Consent Order shall terminate only upon written notice of termination issued by the AQD Director. Prior to issuance of a written notice of termination, the Company shall submit a request, to the AQD Director at the Michigan Department of Environment, Great Lakes, and Energy, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760, consisting of a written certification that the Company has fully complied with all the requirements of this Consent Order and has made all payments including all stipulated fines required by this Consent Order. Specifically, this certification shall include: (i) the date of compliance with each provision of the compliance program and the date any payments or stipulated fines were paid; (ii) a statement that all required information has been reported to the AQD Bay City District Supervisor; (iii) confirmation that all records required to be maintained pursuant to this Consent Order are being maintained at the facility; and, (iv) such information as may be requested by the AQD Director.

25. In the event the Company sells or transfers the facility, with SRN B4942, it shall advise any purchaser or transferee of the existence of this Consent Order in connection with such sale or transfer. Within thirty (30) calendar days, the Company shall also notify the AQD Bay City District Supervisor, in writing, of such sale or transfer, the identity and address of any purchaser or transferee, and confirm the fact that notice of this Consent Order has been given to the purchaser and/or transferee. As a condition of the sale, the Company must obtain the consent of the purchaser and/or transferee, in writing, to assume all of the obligations of this Consent Order. A copy of that agreement shall be forwarded to the AQD Bay City District Supervisor within thirty (30) days after assuming the obligations of this Consent Order.

26. Prior to the Effective Date of this Consent Order and pursuant to the requirements of Sections 5511 and 5528(3) of Part 55, MCL 324.5511 and MCL 324.5528(3), the public was notified of a 30-day public comment period and was provided the opportunity for a public hearing.

27. Section 5530 of Part 55, MCL 324.5530, may serve as a source of authority but not a limitation under which this Consent Order may be enforced. Further, Part 17 of the NREPA, MCL 324.1701 *et seq.*, and all other applicable laws and any other legal basis or applicable statute may be used to enforce this Consent Order.

28. The Company hereby stipulates that entry of this Consent Order is a result of an action by EGLE to resolve alleged violations of its facility located 305 North Huron Avenue, City of Harbor Beach, County of Huron, State of Michigan. The Company further stipulates that it will take all lawful actions necessary to fully comply with this Consent Order, even if the Company files for bankruptcy in the future. The Company will not seek discharge of the settlement amount and any stipulated fines imposed hereunder in any future bankruptcy proceedings, and the Company will take necessary steps to ensure that the settlement amount and any future stipulated fines are not discharged. The Company, during and after any future bankruptcy proceedings, will ensure that the settlement amount and any future stipulated fines remain an obligation to be paid in full by the Company to the extent allowed by applicable bankruptcy law.

The undersigned certifies that he/she is fully authorized by the Company to enter into this Consent Order and to execute and legally bind the Company to it.

CORTEVA AGRISCIENCE LLC

Print Name and Title

Signature

Date

Approved as to Content:

Approved as to Form:

Annette Switzer, Director
AIR QUALITY DIVISION
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES,
AND ENERGY
Dated: _____

Margaret Bettenhausen, Section Head
AIR AND WATER SECTION
ENVIRONMENT, NATURAL RESOURCES,
AND AGRICULTURE DIVISION
DEPARTMENT OF ATTORNEY GENERAL
Dated: _____

FINAL ORDER

The Director of the Air Quality Division having had opportunity to review this Consent Order and having been delegated authority to enter into Consent Orders by the Director of the Michigan Department of Environment, Great Lakes, and Energy pursuant to the provisions of Part 55 of the NREPA and otherwise being fully advised on the premises,

HAS HEREBY ORDERED that this Consent Order is approved and shall be entered in the record of EGLE as a Final Order.

MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY

Annette Switzer, Director
Air Quality Division

Effective Date: _____