

ATTACHMENT E: SPECIAL CONDITIONS

This attachment is the 'standard' list of special conditions used by AQD permit staff. It is in the template format used for permit development. Terms in ALL CAPITALS represent the variable(s) in each condition that are entered for the process being permitted. For example, template condition no. 20 reads [**bold** added for emphasis]:

The **POLLUTANT** emission from the **PROCESS** shall not exceed **LIMIT** milligrams per cubic meter, corrected to 70 degrees Fahrenheit and 29.92 inches Hg.

A properly completed condition for benzene emissions from a reactor associated with the methylethylcrudbar chemical manufacturing process would look like:

The **benzene** emission from the **methylethylcrudbar reactor** shall not exceed **10** milligrams per cubic meter, corrected to 70 degrees Fahrenheit and 29.92 inches Hg.

It is strongly recommended that template language be used as written. However, variations of the template language are acceptable if necessary to address something specific about the process or process equipment being permitted. Also, unique conditions not following the format of those listed may be proposed as part of a draft permit. The basis for any varied or unique conditions should be explained fully in the permit documentation. **Conditions marked with an asterisk (*) should always be used as written.**

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- 20 The POLLUTANT emission from the PROCESS shall not exceed LIMIT milligrams per cubic meter, corrected to 70 degrees Fahrenheit and 29.92 inches Hg.
 - 21 The POLLUTANT emission from the PROCESS shall not exceed LIMIT parts per million by volume.
 - 22 The POLLUTANT emission rate from the PROCESS shall not exceed LIMIT1 pounds per hour nor LIMIT2 tons per year.
 - 22a The POLLUTANT emission rate from the PROCESS shall not exceed LIMIT1 pounds per hour nor LIMIT2 tons per year. These limits are based on a maximum usage rate of LIMIT3 gallons per year of water-based coatings with a formulation volatile organic compound (VOC) content of LIMIT4 pounds per gallon (minus water) as applied, based upon a 12-month rolling time period as determined at the end of each calendar month.
 - 22b The POLLUTANT emission rate from the PROCESS shall not exceed LIMIT1 pounds per hour nor LIMIT2 tons per year, based upon a 12-month rolling time period as determined at the end of each calendar month.
 - 22T The pollutant emission rates from the PROCESS shall not exceed any of the concentrations or mass emission rates listed in the table in Appendix APPENDIX NO.
 - 23 The sulfur dioxide emission rate from the PROCESS shall not exceed LIMIT pound per million BTUs heat input, based upon a 24-hour period. This is equivalent to using FUEL TYPE with a SULFUR CONTENT % sulfur content and a heat value of HEAT VALUE BTUs per pound.
 - 24 The POLLUTANT emission rate from the PROCESS when firing FUEL TYPE shall not exceed LIMIT pound per million BTUs heat input, based on a TIMEFRAME.

- 27 The VOC emission rate from the PROCESS shall not exceed LIMIT pounds per gallon of coating (minus water) as applied, based upon a TIMEFRAME averaging period.
- 27a The VOC content of the COATING TYPE used in the PROCESS shall not exceed LIMIT pounds per gallon of coating (minus water) as applied, based upon a TIMEFRAME averaging period.
- 28 The hazardous air pollutant (HAP) emissions, as defined pursuant to Section 112(b) of the Clean Air Act, shall be less than 9 tons per year for any individual HAP and 22 tons per year for any combination of HAPs at this stationary source. This annual limit shall be based upon a 12-month rolling time period as determined at the end of each calendar month.
- 30a The particulate emission from the PROCESS shall not exceed LIMIT pound per 1,000 pounds of exhaust gases, corrected to 50% excess air.
- 30b The particulate emission from the PROCESS shall not exceed LIMIT pound per 1,000 pounds of exhaust gases, calculated on a dry gas basis.
- 30c The particulate emission from the PROCESS shall not exceed LIMIT pound per 1,000 pounds of exhaust gases.
- 31 For the maximum allowable process weight rate of PROCESS RATE tons per hour, the particulate emission rate from the PROCESS shall not exceed LIMIT pounds per hour. Allowable particulate emission rates for lower process weight rates are based on Table 2, Rule 331(e).
- 32 The POLLUTANT emission rate from the PROCESS shall not exceed LIMIT UNITS. This limit is based on the federal Standards of Performance for New Stationary Sources, 40 CFR, Part 60, Subparts A and SUBPART.
- 33 The POLLUTANT emission rate from the PROCESS shall not exceed LIMIT UNITS. This limit is based on the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 61, Subparts A and SUBPART.
- 41 Visible emissions from the PROCESS shall NOT EXCEED/BE LESS THAN LIMIT% opacity except as specified in the federal Standards of Performance for New Stationary Sources, 40 CFR, Part 60, Subparts A and SUBPART.
- 41a Visible emissions from the PROCESS shall NOT EXCEED/BE LESS THAN LIMIT% opacity. This limit is based on the federal Standards of Performance for New Stationary Sources, 40 CFR, Part 60, Subparts A and SUBPART.
- 42 Visible emissions from the PROCESS shall not exceed a 6-minute average of LIMIT% opacity, except as specified in Rule 301(1)(a).
- *50a Within 180 days after commencement of trial operation, verification of POLLUTANT emission rates from the PROCESS by testing, at owner's expense, in accordance with Department requirements, will be required. Verification of emission rates includes the submittal of a complete report of the test results. No less than DAYS prior to testing, a complete stack testing plan must be submitted to the AQD. The final plan must be approved by the AQD prior to testing. This condition establishes performance testing requirements pursuant to Rules 1001, 1003, and 1004.
- *50b Within 180 days after commencement of trial operation, verification of POLLUTANT emission rates from the PROCESS by testing, at owner's expense, in accordance with Department requirements, will be required. Verification of emission rates includes the submittal of a complete report of the test results. Stack testing procedures and the location of stack testing ports shall be in accordance with federal Reference Methods REFERENCE METHOD and 1 or 1A, respectively, 40 CFR, Part 60, Appendix A. No less than DAYS prior to testing, a complete stack testing plan must be submitted to the AQD. The final plan must be approved by the AQD prior to testing. This condition establishes performance testing requirements pursuant to Rules 1001, 1003, and 1004.
- *51 Verification of POLLUTANT emission rates from the PROCESS by testing, at owner's expense, in accordance with Department requirements, may be required. The testing shall be conducted within 60 days following receipt of the written notification of the requirement. Verification of emission rates includes the submittal of a complete report of the test results. If testing is required, a complete test plan must be submitted to the AQD. The final plan must be approved by the AQD prior to testing and a complete report of test results must be submitted to the AQD within 60 days following the last date of testing. This condition establishes performance testing requirements pursuant to Rules 1001, 1003, and 1004.

- *52 Within 60 days after achieving the maximum production rate, but not later than 180 days after the commencement of trial operation, federal Standards of Performance for New Stationary Sources require verification of POLLUTANT emission rates from the PROCESS by testing, at owner's expense, in accordance with 40 CFR, Part 60, Subparts A and SUBPART. Verification of emission rates includes the submittal of a complete report of the test results. Applicant shall notify the District Supervisor, AQD, in writing within 15 days of the date of commencement of trial operation in accordance with 40 CFR, Part 60.7(a)(3). Stack testing procedures and the location of stack testing ports shall be in accordance with the applicable federal Reference Methods, 40 CFR, Part 60, Appendix A. No less than DAYS prior to testing, a complete stack testing plan must be submitted to the AQD. The final plan must be approved by the AQD prior to testing.
- *52a Within 60 days after achieving maximum production rate, but not later than 180 days after commencement of trial operation, federal Standards of Performance for New Stationary Sources require evaluation of visible emissions from the PROCESS, at owner's expense, in accordance with 40 CFR, Part 60, Subparts A and SUBPART. Visible emission observation procedures must have prior approval by the District Supervisor, AQD.
- 53 Within 180 days after the commencement of trial operation, applicant shall verify the mass transfer efficiency of the coating system, the efficiency of the VOC capture system, the control efficiency of the CONTROL DEVICE, and the average fractional period of time of operation the CONTROL DEVICE is functioning properly.
- 54 Within 180 days after the commencement of trial operation, applicant shall verify the mass transfer efficiency of the coating system.
- 55 Written notification of construction and operation are required to comply with the federal Standards of Performance for New Stationary Sources, 40 CFR, Part 60.7. This notification shall be submitted to the District Supervisor, AQD, within the time frames specified in 40 CFR, Part 60.7.
- 56 Within 18 months after completion of the installation, construction, reconstruction, relocation, alteration, or modification authorized by this Permit to Install, the person to whom this permit was issued, or the authorized agent pursuant to Rule 204, shall notify the District Supervisor, AQD, in writing, of the status of compliance of the process or process equipment with the terms and conditions of the Permit to Install. The notification shall include all of the following: a) The results of all testing, monitoring, and recordkeeping performed to determine the actual emissions from the process or process equipment and to demonstrate compliance with the terms and conditions of the Permit to Install. b) A schedule of compliance for the process or process equipment as described in Rule 119(a). c) A statement, signed by the person owning or operating the process or process equipment, that, based on information and belief formed after reasonable inquiry, the statements and information in the notification are true, accurate, and complete.
- 57 Within 30 days after completion of the installation, construction, reconstruction, relocation, alteration, or modification authorized by this Permit to Install, the person to whom this Permit to Install was issued, or the authorized agent pursuant to R 336.1204, shall notify the District Supervisor, AQD, in writing, of the completion of the activity. Completion of the installation, construction, reconstruction, relocation, alteration, or modification is considered to occur not later than commencement of trial operation of the process or process equipment.
- 60a Applicant shall monitor and record the PARAMETER from the PROCESS on a TIMEFRAME1 basis in a manner and with instrumentation acceptable to DISTRICT SUPERVISOR/COMPLIANCE SUPPORT UNIT (CSU), AQD. All DATA shall be submitted to the District Supervisor, AQD, in an acceptable format within 30 days following the end of the TIMEFRAME2 in which the data were collected.
- 60b Applicant shall monitor and record the PARAMETER from the PROCESS on a TIMEFRAME basis in a manner and with instrumentation acceptable to the DISTRICT SUPERVISOR/CSU, AQD. All DATA shall be kept on file for a period of at least two (2) years and made available to the AQD upon request.
- 60c Applicant shall monitor and record the flow rate and total VOC concentration of the EFFLUENT/INFLUENT stream(s) to the CONTROL DEVICE/PROCESS on a TIMEFRAME1 basis in a manner and with instrumentation acceptable to the AQD until 10 valid samples are obtained. Thereafter, the EFFLUENT/INFLUENT stream(s) to the CONTROL DEVICE/PROCESS shall be monitored for these parameters on a TIMEFRAME2 basis. As a minimum, VOCs which should be included in determining the total concentration are LIST VOCS. All data, including calculation of VOC emission rates, shall be submitted to the District Supervisor, AQD, using Appendix A or an approved equivalent method, within 30 days following collection of the initial data, and thereafter within 30 days following the end of the TIMEFRAME3 in which the data were collected. Any request for a change in the sampling and/or reporting frequency must be submitted to the District Supervisor, AQD, for review and approval.

- *61a Applicant shall monitor and record the POLLUTANT emissions from the PROCESS on a continuous basis in a manner and with instrumentation acceptable to the AQD [Optional: unless performance tests indicate the POLLUTANT emissions are less than 70% of the allowable limit]. Prior to installation applicant shall submit a Monitoring Plan to the District Supervisor, AQD, for review and approval. The Monitoring Plan shall include drawings or specifications showing proposed locations and descriptions of all required monitors(s). The continuous emission monitoring system (CEMS) shall be installed, calibrated, maintained and operated in accordance with the procedures set forth in 40 CFR 60.13 and Performance Specification (PS) SPECIFICATION NUMBER, of Appendix B, 40 CFR, Part 60. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations. No less than 30 days prior to the performance specification testing, a complete test plan must be submitted to the District Supervisor, AQD, for approval. Applicant shall submit to the District Supervisor, AQD, within 30 days of completion, two (2) copies of the final report demonstrating the CEMS complies with the requirements of PS SPECIFICATION NUMBER. In accordance with 40 CFR, Parts 60.7(c) and (d) an excess emissions report (EER) and summary report shall be submitted in an acceptable format to the District Supervisor, AQD, within DAYS days following the end of each calendar TIMEFRAME. The EER shall include each occurrence of all excursions and the magnitudes of the excess emissions of the specified permit limit, the cause of the excess emissions, if known, periods of monitor downtime, any corrective action taken and the total operating time of the source(s). If no exceedances or CEMS downtime occurred during the reporting period, applicant shall report that fact. Applicant shall perform and report the Quality Assurance Procedures of the CEMS set forth in Appendix F of 40 CFR, Part 60. Each quarter the results shall be presented and submitted in the format of the data assessment report (DAR) along with the quarterly EER and summary reports. Further, all monitoring data shall be kept on file for a period of at least YEARS years and made available to the District Supervisor, AQD, upon request. [Optional: The(se) monitor(s) and the resulting data shall be used for determining compliance with condition(s) CONDITION NUMBER.]
- *61b Applicant shall monitor and record the visible emissions from the PROCESS on a continuous basis in a manner and with instrumentation acceptable to the AQD. Prior to installation, applicant shall submit a Monitoring Plan to the District Supervisor, AQD, for review and approval. The Monitoring Plan shall include drawings or specifications showing proposed locations and descriptions of the required monitor(s). The continuous opacity monitoring system (COMS) shall be installed, calibrated, maintained and operated in accordance with the procedures set forth in 40 CFR 60.13 and Performance Specification 1 (PS 1) of Appendix B, 40 CFR, Part 60. The span value shall be 2.0 times the lowest emission standard or as specified in the federal regulations. No less than 30 days prior to the performance specification testing of the COMS, a complete test plan must be submitted to the District Supervisor, AQD. The final test plan must have approval prior to the testing. Applicant shall submit to the District Supervisor, AQD, within 30 days of completion, two (2) copies of the final report demonstrating the COMS complies with the requirements of PS 1. In accordance with 40 CFR, Parts 60.7(c) and (d), applicant shall submit a written excess emission report (EER) and summary report in an acceptable format to the District Supervisor, AQD, within DAYS days of the end of each calendar TIMEFRAME. The EER shall include the magnitude, in actual percent opacity, of each six (6) minute average of opacity greater than the permit limit and the time period represented by such averages. It shall also include the cause of the excess emission, if known, periods of COMS downtime, any corrective action taken, and a total operating time of the source(s). If no exceedances or COMS downtime occurred during the time period, applicant shall report that fact. Applicant shall perform an annual audit of the COMS using the procedures set forth in U.S. Environmental Protection Agency (EPA) publication No. 450/4-92-010, "Performance Audits Procedures for Opacity Monitors", and all amendments thereto. The results of the annual audit shall be submitted to the District Supervisor, AQD, within 30 days of completion. Further, all monitoring data shall be kept on file for a period of at least YEARS years and made available to the District Supervisor, AQD, upon request. [Optional: The(se) monitor(s) and the resulting data shall be used for determining compliance with condition(s) CONDITION NUMBER.]
- *61c The applicant shall monitor and record the output of the total hydrocarbon (THC) emissions as EQUIVALENT HYDROCARBON from the PROCESS on a continuous basis in a manner acceptable to the AQD. Prior to installation, the applicant shall submit a monitoring plan to the District Supervisor, AQD, for review and approval. The CEMS shall be installed, calibrated, maintained, and operated in accordance with the procedures set forth in the Performance Specification for Continuous Emission Monitoring of Hydrocarbons, U.S. EPA Publication No. EPA/530-SW-91-010. The span value shall be 2.0 times the lowest emission standard. No less than 30 days prior to testing, a complete protocol for the CEMS testing shall be submitted to the District Supervisor, AQD, for approval. Within 30 days of completion of the CEMS performance specification, quarterly or annual testing, the applicant shall submit the final report demonstrating the CEMS complies with the requirements of U.S. EPA Publication No. EPA/530-SW-91-010. In accordance with 40 CFR, Parts 60 (c) and (d) an excess emission report and summary report shall be submitted in an acceptable format to the District Supervisor, AQD, within 30 days of the end of each calendar quarter. Further, all monitoring data shall be kept on file for a period of at least two (2) years and made

available upon request. [Optional: The(se) monitor(s) and the resulting data shall be used for determining compliance with condition(s) CONDITION NUMBER.]

- 62a Monitoring and recording of emissions and operating information is required to comply with the federal Standards of Performance for New Stationary Sources as specified in 40 CFR, Part 60, Subparts A and SUBPART. All source emissions data and operating data shall be submitted to the District Supervisor, AQD, in an acceptable format within 30 days following the end of the TIMEFRAME in which the data were collected.
- 62b Monitoring and recording of emissions and operating information is required to comply with the Federal Standards of Performance for New Stationary sources as specified in 40 CFR, Part 60, Subparts A and SUBPART. All source emissions data and operating data shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 64 Applicant shall conduct an ambient air monitoring program for POLLUTANT in a manner and with instrumentation approved by the Air Monitoring Unit, AQD. All ambient air monitoring data shall be submitted to the Air Monitoring Unit, AQD, in an acceptable format within 30 days following the end of the month in which the data were collected.
- 65a DATA OR INFORMATION shall be submitted to the District Supervisor, AQD, in an acceptable format within 30 days following the end of the TIMEFRAME in which the data were collected.
- 65b DATA OR INFORMATION shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 65c A complete copy of the coal analysis, as supplied by the coal vendor, shall be submitted to the District Supervisor, AQD, immediately upon delivery of a new shipment of coal.
- 66a Applicant shall keep a separate record of the usage rate of each COATING TYPE used for the PROCESS. Further, applicant shall keep a record of the pounds of VOC per gallon of COATING (MINUS WATER)/SOLIDS APPLIED, the density of the VOC portion (minus water) of the COATING TYPE, and the density of each SOLVENT OR REDUCER. This information shall be submitted to the District Supervisor, AQD, in an acceptable format within DAYS following the end of the TIMEFRAME in which the data were collected.
- 66b For each calendar TIMEFRAME, applicant shall keep a separate record of the usage rate of each COATING TYPE used for the PROCESS. Further, applicant shall keep a record of the pounds of VOC per gallon of COATING (MINUS WATER)/SOLIDS APPLIED, the density of the VOC portion (minus water) of the COATING TYPE, and the density of each SOLVENT OR REDUCER. This information shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 67a Applicant shall calculate the VOC emission rates from the PROCESS for each calendar TIMEFRAME, using the method detailed in Appendix APPENDIX NO. This information shall be submitted to the District Supervisor, AQD, in an acceptable format within DAYS days following the end of the TIMEFRAME in which the data were collected.
- 67b Applicant shall calculate the VOC emission rates from the PROCESS for each calendar TIMEFRAME, using the method detailed in Appendix APPENDIX NO. This information shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 67c The applicant shall not exceed a maximum monthly coating usage rate in the PROCESS which is the equivalent of LIMIT1 gallons (minus water) as applied, with a maximum VOC content of LIMIT2 pounds of VOC per gallon (minus water) as applied. The equivalent usage rate shall be calculated using the method detailed in Appendix APPENDIX NO.
- 68 The VOC content of any coating as applied and as received shall be determined using federal Reference Test Method 24. Upon prior approval of the District Supervisor, AQD, VOC content may alternatively be determined from manufacturer's formulation data.
- 68a The VOC content of any ink as applied and as received shall be determined using federal Reference Test Method 24A. Upon approval by the District Supervisor, AQD, VOC content may alternatively be determined from manufacturer's formulation data.
- 69 For the purposes of this permit to install, all requirements for notifications or submittal of records to or approvals by the District Supervisor, AQD should be submitted to the Director of Compliance and Enforcement, Air Quality Management Division, Wayne County Department of Environment unless you are otherwise notified in writing by the

- AQD. At no time shall notifications or submittals to or approvals by both agencies be required pursuant to this permit.
- 70 Applicant shall not operate the PROCESS unless the CONTROL DEVICE IS/ARE installed and operating properly.
- 70a Applicant shall not fill the TYPE OF STORAGE TANK storage tank unless the vapor balance system is installed and operating as follows: The vapor-tight collection line shall be connected to the delivery vessel before any MATERIAL is transferred. The vapor-tight collection line shall close upon disconnection so as to prevent release of TYPE OF VAPOR vapor. Hatch and other openings on the delivery vessel shall be closed and vapor-tight to prevent emission of displaced TYPE OF VAPOR vapor during transfer operations, except under emergency conditions. The liquid transfer line shall be equipped with a device, or a procedure shall be implemented, to prevent liquid drainage from the line when it is disconnected and not in use. Applicant shall develop written procedures for the operation of all the control measures described above, and such procedures shall be available in an accessible location near the transfer equipment.
- 71 Applicant shall not operate the TYPE OF BOOTH booth unless all exhaust filters are in place and operating properly.
- 71a Applicant shall equip and maintain all paint spray booths with APPLICATOR TYPE spray guns or equivalent technology with comparable transfer efficiency.
- 72 Applicant shall equip and maintain the PROCESS OR DEVICE with DEVICE.
- 73 Applicant shall not operate the PROCESS unless a gauge which measures the pressure drop across the fabric filter collector and sounds an alarm when the pressure drop exceeds INCHES inches W.G. is installed and operating properly.
- 74 Applicant shall not operate the PROCESS unless an average temperature of TEMPERATURE degrees Fahrenheit and a minimum retention time of SECONDS seconds in the thermal oxidizer is maintained.
- 74a Applicant shall not operate the PROCESS unless an average temperature of 1400 degrees Fahrenheit (plus or minus 50 degrees Fahrenheit) averaged over any consecutive three (3) hour period, and a minimum retention time of 0.5 second in the thermal oxidizer is maintained.
- 74b Applicant shall monitor and record the temperature in the thermal oxidizer near the combustion chamber outlet on a continuous basis in a manner and with instrumentation acceptable to the AQD. All temperature data shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 74c Applicant shall not operate the PROCESS unless the catalytic oxidizer is installed and operating properly. Proper operation of the catalytic oxidizer is defined as a minimum VOC capture efficiency of PERCENT1 % (by weight), a minimum VOC destruction efficiency of PERCENT2 % (by weight), and a minimum catalyst bed inlet temperature of TEMPERATURE degrees Fahrenheit.
- 74d Applicant shall install, calibrate, maintain and operate according to manufacturer's specifications, a temperature monitoring device at the inlet to the catalyst bed of the catalytic oxidizer. The temperature shall be measured and recorded at least every 15 minutes.
- 74e Applicant shall prepare and maintain a preventative maintenance plan which identifies the procedure for proper operation and maintenance of the catalyst bed. The preventative maintenance plan shall be reviewed and approved by the District Supervisor, AQD. This information shall be kept on file and made available to the AQD upon request.
- 74f Applicant shall not operate the PROCESS unless a minimum temperature of TEMPERATURE degrees Fahrenheit and a maximum space velocity of INVERSE HOURS inverse hours in the catalytic oxidizer is maintained.
- 75 Applicant shall not operate the PROCESS unless all provisions of Rule RULE NUMBER are met.
- 76 Applicant shall not operate the grain dryer unless all of the exhaust gases are passed through column plate perforations with diameters less than or equal to 0.094 inch.
- 80 The exhaust gases from the PROCESS shall be discharged unobstructed vertically upwards to the ambient air from a stack with a maximum diameter of DIAMETER inches at an exit point not less than STACK HEIGHT feet above ground level.

- 80T The exhaust gases from the PROCESS shall be discharged unobstructed vertically upwards to the ambient air from stacks with the dimensions listed in the table in Appendix APPENDIX NO.
- 81 Applicant shall not install the PROCESS until final plans and specifications have been submitted to and approved by the Permit Section, AQD.
- 82 Applicant shall not operate the PROCESS for more than HOURS hours per 12 month rolling time period as determined at the end of each calendar month. A written log of the hours of operation shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 83 Applicant shall not process more than PROCESS LIMIT UNITS of material in the PROCESS per 12 month rolling time period as determined at the end of each calendar month. A written record of the amount of material processed shall be kept on file for a period of at least two (2) years and made available to the Department upon request.
- 84a Applicant shall not operate the PROCESS unless the malfunction abatement plan specified in ATTACHMENT/APPENDIX NO. has been implemented and is maintained.
- 84b Applicant shall not operate the PROCESS unless the fugitive dust control plan specified in ATTACHMENT/APPENDIX NO. has been implemented and is maintained.
- 85 Input feed to the PROCESS shall cease immediately, consistent with safe operating procedures, upon initiation of collector bypass. Input feed to the PROCESS shall not restart until the collector is back on line and functioning properly.
- 86 Applicant shall not operate the PROCESS unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in APPENDIX NO. has been implemented and is maintained.
- 87 Applicant shall implement the program for fugitive dust control specified in ATTACHMENT/APPENDIX NO. during the construction of this facility.
- 90 Applicant shall not ACTIVITY any asbestos tailing or asbestos containing waste materials in the PROCESS pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR, Part 61, Subpart M.
- 91 Applicant shall not use any recycled asphalt product material without prior notification to and approval by the AQD.
- 92 Applicant shall limit the asphalt mixture to a maximum of PERCENT RAP % recycled asphalt product (RAP) material.
- *93 Pursuant to 40 CFR 124.15, this Permit to Install shall become effective EFFECTIVE DATE, unless review is requested under 40 CFR 124.19.
- *94 This Permit to Install shall become effective only upon written authorization by the Chief of the AQD. Consistent with 40 CFR 124.15, such authorization shall not occur prior to DATE. After DATE the AQD Division Chief may issue such authorization only if review of this Permit to Install is not requested pursuant to 40 CFR 124.19.
- 95 This permit is terminated on and after DATE, unless all of the sources at the FACILITY identified in the DATE letter from the AQD to PERSON are in compliance with all applicable local, state, and federal air quality regulations or are in compliance with a consent order or other legally enforceable agreement specifying a schedule and timetable for compliance.
- *96 Applicant shall not relocate the portable DEVICE OR PROCESS to any new geographical site in Michigan unless all of the following criteria are met: a) The plant shall not have any outstanding unresolved violations of any of the Michigan Department of Environmental Quality Air Pollution Control rules, order, or permits; or federal air quality regulations. b) The installation of the plant at the geographical site shall be of a temporary nature lasting not more than 12 consecutive months. c) A notice of intent to relocate along with a proposed site plan shall be provided to the district office not less than 21 days prior to the scheduled relocation identifying the proposed new geographical site and the probable duration at the new site. All residential or commercial establishments and places of public assembly within 1,000 feet of the proposed plant's site shall be clearly identified on the proposed site plan. d) An asphalt production plant shall not be located within 800 feet to a residential or commercial establishment or a place of public assembly unless prior written site approval is obtained from the AQD district office. e) The DEVICE OR

PROCESS shall not be located within 500 feet to a residential or commercial establishment or a place of public assembly unless prior written site approval is obtained from the AQD district office. f) A copy of this approved permit and permit conditions shall be clearly posted in the operator's office or work station and the permit number shall be posted on the equipment where it is clearly visible from the operator's office or work station. g) The Department's Delegation of Authority does not authorize us to approve any site where there is a known unresolved objection. Therefore, a request for site approval where there are known unresolved objections will continue to be handled by the Office of the Director of the Michigan Department of Environmental Quality.

- *97 In the event that the DEVICE OR PROCESS is removed from this location, this equipment may be returned, installed, and operated at this location pursuant to this Permit to Install, provided that all of the following conditions are met: a) There are no outstanding and unresolved compliance issues, resulting from written notification by the AQD, involving either this equipment or this location. b) Applicant provides written notification to the District Supervisor, AQD, prior to the removal of this equipment, stating an intent to return and operate this equipment within 12 months of its removal from this location. c) Applicant provides written notification to the District Supervisor, AQD, at least one week prior to the return of this equipment, that the equipment is scheduled to return to this location. d) This equipment is returned to this location within 12 months of its removal. Notwithstanding the provisions of this condition, the AQD may void this permit during the time that this equipment is removed from this location if it has reason to believe that, if returned, this equipment is not likely to operate in compliance with all applicable rules and permit conditions. If this action is taken, applicant shall be notified, in writing, of the reasons therefore. The voiding of this permit shall be without prejudice to applicant's right to file a new Permit to Install application.
- 104 All purge solvents and coatings from all TYPE coating applicators used for the coating process shall be captured and stored in closed containers and disposed of in an acceptable manner in compliance with all applicable state rules and federal regulations.
- 105 The applicant shall maintain a current listing of the manufacturer's formulation data for each MATERIAL.

INCINERATORS

- 101 Applicant shall not burn any waste in the incinerator other than the following: Type O - Trash, a mixture of highly combustible waste such as paper, cardboard cartons, wood boxes, and combustible floor sweepings, from commercial and industrial activities. The mixture may contain up to 10% by weight of plastic bags, coated paper, laminated paper, treated corrugated cardboard, oily rags and plastic or rubber scraps. Type 1 - Rubbish, a mixture of combustible waste such as paper, cardboard cartons, wood scrap, foliage and combustible floor sweepings, from domestic, commercial and industrial activities. The mixture may contain up to 20% by weight of restaurant or cafeteria waste, but contains little or no treated papers, plastic or rubber wastes. Type 2 - Rubbish, a mixture of combustible waste such as paper, cardboard cartons, wood scrap, foliage and combustible floor sweepings; and garbage, consisting of animal and vegetable wastes from restaurants, cafeterias, hotels, hospitals, markets and like installations. Type 3 - Garbage, consisting of animal and vegetable wastes from restaurants, cafeterias, hotels, hospitals, markets and like installations. Type 4 - Human and animal remains, consisting of carcasses, organs and solid organic wastes from hospitals, laboratories, abattoirs, animal pounds, and similar sources. Type 6 - Solid by-product waste, such as rubber, plastics, wood waste, etc., from industrial operations.
- 102 Applicant shall not operate the incinerator unless it is equipped with [a limit switch to set and reset the timer for the afterburner each time the charge door is opened][a thermocouple control system for the afterburner][a manual timer switch, with operating instructions, to insure use of the afterburner whenever the incinerator is operated. If it is determined, by the District Supervisor, AQD, that such manual timer switch is not being utilized correctly, an automatic afterburner switch shall be required].
- 103 Proper operation and adequate maintenance of the incinerator to control emissions is required. A list of recommended operating and maintenance procedures is enclosed.

NATURAL GAS SWEETENING FACILITIES

- 111 Sulfur dioxide emissions from the PROCESS shall not exceed LIMIT1 pounds per hour, based on a 24-hour average. This is equivalent to a mass flow rate of hydrogen sulfide to the PROCESS of LIMIT2 pounds per hour, based on a 24-hour average.
- 112 Applicant shall conduct a continuous in-shed monitoring program for hydrogen sulfide meeting the requirements of

Rule 403(5). All inflow streams to the equipment shall be shut off if the concentration of hydrogen sulfide in the building is greater than 100 parts per million, by volume. Operation of the equipment may be resumed only after successful corrective measures have been applied.

- 113 Applicant shall monitor, on a TIMEFRAME basis, the mass flow rate of hydrogen sulfide TO/FROM the WELL/SWEETENING PLANT. The monitoring data shall be submitted to the District Supervisor, AQD, in an acceptable format within 30 days following the end of the month in which the data were collected.
- 114 Applicant shall operate a continuously burning pilot flame at the FLARE/INCINERATOR. In the event that the flame is extinguished, shut-in of all wells feeding the equipment shall commence automatically within one second. Operation of the equipment shall not be restarted unless the pilot flame is reignited and maintained. Pilot fuel shall be only sweet natural gas.
- 115 Applicant shall not operate the equipment unless all emergency relief valves, all storage tanks, and all dehydrators are vented to a flare, an incinerator or a vapor recovery system.
- 116 Applicant shall not use the equipment to process wells other than those specified in this permit application without prior notification to the AQD.
- 117 Applicant shall not operate the equipment unless a vapor return system is employed in the load out of all brine and condensate storage tanks.
- 118 Applicant shall install and maintain fencing, warning signs, and/or other measures as necessary to prevent unauthorized individuals from entering the plant property and buildings.

ANHYDROUS AMMONIA STORAGE TANKS

- 214 Except where specific requirements of these special conditions are applicable and more stringent, the anhydrous ammonia storage and handling process shall comply with "Part 78. Storage and Handling of Anhydrous Ammonia," MIOSHA 1910.111. A copy of this standard shall be maintained for inspection at the facility. A copy may be obtained by contacting the Michigan Department of Consumer and Industry Services, Bureau of Safety and Regulations, Safety Standards Division, 7150 Harris Drive, Lansing, MI 48909-8143.
- 216 Applicant shall not operate the process unless the inspection and maintenance program specified in Appendix 1 has been implemented and maintained.
- 217 All containers shall be fitted with safety relief valves as specified in MIOSHA 1910.111. Such valves shall be stamped with the date manufactured, and shall be replaced, or retested and recertified, at least every five (5) years or more often if there is evidence of damage or deterioration.
- 218 Applicant shall not operate the process unless a remotely operated internal or external positive shut-off valve is installed to allow access for emergency shut-off of all flow from stationary storage containers.
- 219 Applicant shall not operate the process unless a bulkhead, anchorage, or equivalent system is used at each transfer area so that any break resulting from a pull will occur at a predictable location while retaining intact the valves and piping on the plant side of the transfer area.
- 220 Applicant shall not operate the process unless liquid lines in rail and transport transfer areas are equipped with back pressure check valves and all liquid lines not requiring a back check valve and all vapor lines are equipped with properly sized excess flow valves. These valves shall be installed on the main container side of the predictable break point at the bulkhead.
- 222 All hoses shall be replaced five (5) years after date of manufacture or more often if there is evidence of damage or deterioration.
- 223 Applicant shall not operate the process unless all transfer operations including transport deliveries are performed by a reliable person properly trained and made responsible for proper compliance with all applicable procedures.
- 224 Nurse tank filling shall be done only from a permanent stationary storage tank.

- 225 Nurse and applicator tanks shall be filled to no more than 85% of liquid capacity by volume. Storage tanks may be filled according to temperature density correction tables in MIOSHA 1910.111 where tanks have a thermometer well and suitable level gauge.
- 226 Any vapor or liquid line, exclusive of couplings, requiring venting after ammonia transfer shall be vented through a water trap of 55 gallons minimum size. Safety water shall not be used for this purpose.
- 227 Nurse and applicator tank storage shall be not less than 50 feet from the property line, not less than 150 feet from any existing places of residence or private or public assembly, not less than 250 feet from a school, apartment building, or institutional occupancy, and not less than 1,000 feet from any hospital or nursing home.
- 228 The applicant shall not operate the process unless an emergency response plan, to be followed in the event of an emergency, has been approved by the local fire department or county emergency response agency and is implemented and maintained. Prior to each spring season, the applicant shall review this plan with the local fire department or emergency response agency and make any necessary updates
- 229 Applicant shall notify the Pollution Emergency Alert System (PEAS) 1-800-292-4706 and/or the District Supervisor, AQD, immediately of any abnormal release of anhydrous ammonia from the facility. A normal release includes only hose coupling bleed downs, operation of hydrostatic relief valves, and normal pressure relief from the safety relief valve(s). Relief due to overfilling is not normal.
- 230 A sign shall be present and conspicuously placed at the facility entrance stating the emergency phone numbers for the owner, primary operator, local and state police, local fire department, and ambulance service.