Appendix A

Columbus, NE – Dry Mill Air Permit

Dave Heineman
Governor

STATE OF NEBRASKA

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AIR QUALITY CONSTRUCTION PERMIT
PREVENTION OF SIGNIFICANT DETERIORATION

PERMIT NUMBER: CP07-0061

Facility Name: Archer Daniels Midland Company (Dry Mill)

NDEQ Facility ID#: 39285

Mailing Address:
3000 East 8th Street
Columbus, Nebraska 68601-9073

Facility Location:
3000 East 8th Street
Columbus, Platte County, Nebraska 68601

Project Description: Permit revision for an ethanol manufacturing plant producing approximately 400 million gallons of denatured ethanol annually

Standard Industrial Classification (SIC) Code: 2869, Industrial Organic Chemicals

SIGNIFICANT PERMIT REVISION to permit: CP06-0005 issued October 20, 2006 (superseded)

This construction permit supersedes permit CP06-0005 and approves revisions to air quality permit CP06-0005 as identified in the air quality construction permit application #07-0061 received August 27, 2007, including any supporting information received prior to issuance of this permit. Additional details of the permit revisions, including changes in estimated pollutant emissions caused by the revisions, can be found in the accompanying Fact Sheet.

Pursuant to Chapter 14 of the Nebraska Air Quality Regulations, the public has been notified by prominent advertisement of this permit revision and the thirty (30) day period allowed for comments has elapsed.

Compliance with this permit shall not be a defense to any enforcement action for violation of an ambient air quality standard. The permit holder, owner, and operator of the facility shall assure that the installation, operation, and maintenance of all equipment is in compliance with all of the conditions of this permit.

The undersigned issues this permit on behalf of the Director under the authority of Title 129 – Nebraska Air Quality Regulations as amended August 18, 2008.

26-2009
Date

Jay D. Ringenberg,
Deputy Director of Programs

An Equal Opportunity/Affirmative Action Employer

Printed with soy ink on recycled paper

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ABBREVIATIONS, SYMBOLS, and UNITS OF MEASURE

AP-42	Compilation of Air Pollutant Emission Factors, Volume I, Stationary Point and Area Sources
BACT	Best Available Control Technology
bhp	Brake Horsepower
BMP	Best Management Practice
btu	British Thermal Unit
bu	Bushel
CAA	Clean Air Act
CE	Control Equipment
CEM	Continuous Emissions Monitor
CEMS	Continuous Emissions Monitoring System
cf	Cubic feet
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CO_2	Carbon Dioxide
CP	Construction Permit
DGS	Distiller's Grains with Solubles
DDGS	Dry Distillers Grains with Solubles
dscf	Dry Standard Cubic Feet
dscfm	Dry Standard Cubic Feet per Minute
EMIS	Emergency Management Information System
EPA	Environmental Protection Agency
EQC	Environmental Quality Council
EP	Emission Point
ESP	Electrostatic Precipitator
EU	Emission Unit
FID	Facility Identification Number
FDCP	Fugitive Dust Control Plan
FGR	Flue Gas Recirculation
FIP	Federal Implementation Plan
FR	Federal Register
ft	Feet
FTIR	Fourier Transform Infrared
H_2S	Hydrogen Sulfide
HAP	Hazardous Air Pollutant
hp	Horsepower
hr	Hour
LDAR	Leak Detection and Repair
LNB	Low NO_x Burner
MACT	Maximum Achievable Control Technology
Mgal	One Thousand gallons
MMBtu	One Million British Thermal Units
MMscf	One Million Standard Cubic Feet
MSDS	Material Safety Data Sheet
MW	Megawatt
NAAQS	National Ambient Air Quality Standards
NDEQ	Nebraska Department of Environmental Quality
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_2	Nitrogen Dioxide
NO_x	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
PAL	Plant-wide Applicability Limit
Pb	Lead (chemical abbreviation)
PbR	Permit-by-Rule
PEMS	Parametric Emissions Monitoring System
PM	Particulate Matter
PM_{10}	Particulate Matter with and aerodynamic diameter equal to or less than 10 microns
$PM_{2.5}$	Particulate Matter with and aerodynamic diameter equal to or less than 2.5 microns
ppb	Parts per Billion
ppm	Parts per Million
ppmv	Parts per Million by volume
ppmvd	Parts per Million by volume, dry basis
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
RVP	Reid Vapor Pressure
RATA	Relative Accuracy Test Audit
RMP	Risk Management Plan
RTO	Regenerative Thermal Oxidizer
scf	Standard Cubic Feet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2	Sulfur Dioxide
SO_x	Sulfur Oxides
TDS	Total Dissolved Solids
TO	Thermal Oxidizer
TO/HRSG	Thermal Oxidizer with Heat Recovery Steam Generator
tpy	Tons per year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate Matter
ULNB	Ultra Low NO_x Burner
UST	Underground Storage Tank
UTM	Universal Transverse Mercator
VHAP	Volatile Hazardous Air Pollutant
VMT	Vehicle Miles Traveled
VOC	Volatile Organic Compound
WDGS	Wet Distiller's Grains with Solubles

I. GENERAL CONDITIONS

(A) This permit is not transferable to another source or location. {Chapter 17}

(B) Holding of this permit does not relieve the owner or operator of the source from the responsibility to comply with all applicable portions of the Nebraska Air Quality Regulations and any other requirements under local, State, or Federal law. Any permit noncompliance shall constitute a violation of the Nebraska Environmental Protection Act and the Federal Clean Air Act, and is grounds for enforcement action or permit revocation. {Chapter 41 & Chapter 17, Section 011}

(C) Application for review of plans or advice furnished by the Director will not relieve the owner or operator of legal compliance with any provision of these regulations, or prevent the Director from enforcing or implementing any provision of these regulations. {Chapter 37}

(D) Any owner or operator who failed to submit any relevant facts or who submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrected information. If the owner or operator wishes to make changes at the source that will result in change(s) to values, specifications, and/or locations of emission points that were indicated in the permit application (or other supplemental information provided by the owner or operator and reviewed by the NDEQ in issuance of this permit), the owner or operator must receive approval from the NDEQ before the change(s) can be made. In addition, any modification which may result in an adverse change to the air quality impacts predicted by atmospheric dispersion modeling (such as changes in stack parameters or increases in emission rates, potential emissions, or actual emissions) shall have prior approval from the NDEQ. The owner or operator shall provide all necessary information to verify that there are no substantive changes affecting the basis upon which this permit was issued. Information may include, but not be limited to, additional engineering, modeling and ambient air quality studies. {Chapter 17, Section 006, 007, & 008}

(E) Approval to construct, reconstruct and/or modify the source will become invalid if a continuous program of construction is not commenced within 18 months after the date of issuance of the construction permit, if construction is discontinued for a period of 18 months or more, or if construction is not completed within a reasonable period of time. {Chapter 17, Section 012}

(F) The owner/operator of the source shall provide the following notifications to the NDEQ:

(1) The date construction, reconstruction or modification commenced as defined in Chapter 1, Section 031. Notification shall be postmarked no later than 30 days after such date and include a summary description of whether the requirement was met through: {Chapter 17, Section 012}

(a) Initiating physical on-site construction activities of a permanent nature that meet the definition of "begin actual construction", or

(b) Entering into binding agreements or contractual obligations. If this option is used, the notice shall also include a brief summary of each binding agreement or contractual obligation entered into, the date of the agreement or contract, and why it cannot be cancelled or modified without substantial loss to the owner or operator.

(2) The date of initial startup of operations postmarked within 15 days after such date. {Chapter 7, Section 002.03}

(G) The owner or operator shall allow the NDEQ, EPA or an authorized representative, upon presentation of credentials to: {Neb. Rev. Statute §81-1504}

(1) Enter upon the owner or operator's premises at reasonable times where a source subject to this permit is located, emissions-related activity is conducted or records are kept, for the purpose of ensuring compliance with the permit or applicable requirements;

(2) Have access to and copy, at reasonable times, any records, for the purpose of ensuring compliance with the permit or applicable requirements;

(3) Inspect at reasonable times any facilities, pollution control equipment, including monitoring and air pollution control equipment, practices, or operations, for the purpose of ensuring compliance with the permit or applicable requirements;

(4) Sample or monitor at reasonable times substances or parameters for the purpose of ensuring compliance with the permit or applicable requirements.

(H) When requested by the NDEQ, the owner or operator shall submit completed emission inventory forms for the preceding year to the NDEQ by March 31 of each year. {Chapter 6}

(I) Open fires are prohibited except as allowed by Chapter 30.

(J) Particulate Matter – General Requirements: {Chapter 32}

(1) The owner or operator shall not cause or permit the handling, transporting or storage of any material in a manner, which allows particulate matter to become airborne in such quantities and concentrations that it remains visible in the ambient air beyond the property line.

(2) The owner or operator shall not cause or permit the construction, use, repair or demolition of a building, its appurtenances, a road, a driveway, or an open area without applying all reasonable measures to prevent particulate matter from becoming airborne and remaining visible beyond the property line. Such measures include, but not limited to, paving or frequent cleaning of roads, driveways and parking lots; application of dust-free surfaces; application of water; and planting and maintenance of vegetative ground cover.

(K) If and when the Director declares an air pollution episode as defined in Chapter 38, Sections 003.01B, 003.01C, or 003.01D, the owner or operator shall immediately take all required actions listed in Title 129, Appendix I until the Director declares the air pollution episode terminated.

(L) This permit may be revised (reopened and reissued) or revoked for cause in accordance with Title 129 and Title 115, Rules of Practice and Procedure. Conditions under which this permit will be revised or revoked for cause, include but are not limited to: {Chapter 15, Section 006}

(1) A determination by the Director, or the Administrator of EPA that:

(a) the permit must be revised to ensure compliance with the applicable requirements;

(b) the permit contains a material mistake or that inaccurate statements were made in the emissions standards or other terms or conditions of the permit.

(2) The existence at the source of unresolved noncompliance with applicable requirements or a term or condition of the permit, and refusal of the owner or operator to agree to an enforceable schedule of compliance to resolve the noncompliance;

(3) The submittal by the owner or operator of false, incomplete, or misleading information to the NDEQ or EPA;

(4) A determination by the Director that the source or activity endangers human health or the environment and that the danger cannot be removed by a revision of the permit; or

(5) The failure of the owner or operator to pay a penalty owed pursuant to court order, stipulation and agreement, or order issued by the Administrator of the EPA.

II. SPECIFIC CONDITIONS

(A) Recordkeeping: Records of all measurements, results, inspections, and observations as required to ensure compliance with all applicable requirements shall be maintained on-site as follows:

(1) All calculations and records required throughout this permit shall be completed no later than the fifteenth (15th) day of each calendar month and shall include all information through the previous calendar month, unless otherwise specified in this permit.

(2) All records required throughout this permit shall be kept for a minimum of five years and shall be clear and readily accessible to Department representatives, unless otherwise specified in this permit.

(3) Copies of all notifications, reports, test results, and plans.

(4) Calibration records for all operating parameter monitoring equipment.

(5) Operation and Maintenance manuals detailing proper operation and maintenance of all permitted emission units, required control equipment, and required monitoring equipment shall be kept for the life of the equipment.

(6) Records documenting equipment failures, malfunctions, or other variations, including date and time of occurrence, remedial action taken, and when corrections were made to each piece of permitted equipment, required control equipment, and required monitoring equipment.

(B) All permitted emission units, control equipment, and monitoring equipment shall be properly installed, operated, and maintained.

(C) Any emissions due to malfunctions, unplanned shutdowns, and ensuing start-ups that are, or may be, in excess of applicable emission limits shall be reported to the NDEQ in accordance with Chapter 35, Section 005.

(D) The performance tests required in the permit shall be completed and submitted to the NDEQ as follows: {Chapter 34}

(1) Performance tests shall be conducted while operating at full capacity within sixty (60) days after reaching the maximum capacity, but not more than 180 days after the start-up of operations of each unit, unless otherwise specified by the NDEQ.

(2) Testing shall be conducted according to the methodologies found in Title 129, Chapter 34, Section 002, or other NDEQ approved methodologies.

(3) Performance tests shall be conducted for a minimum of three (3) one hour runs unless another run time is specified by the applicable Subpart or as deemed appropriate by the NDEQ.

(4) The owner or operator of a source shall provide the NDEQ at least thirty (30) days written notice prior to testing to afford the NDEQ an opportunity to have an observer present. The owner or operator shall also provide the NDEQ with an emissions testing protocol at least thirty (30) days prior to testing.

(5) The owner or operator shall monitor the operating parameters for process and control equipment during the performance testing required in the permit.

(6) A written copy of the test results signed by the person conducting the test shall be provided to the NDEQ within forty-five (45) days of completion of the test and will, at a minimum, contain the following items:

(a) A description of the source's operating parameters (i.e. production rates, firing rates of combustion equipment, fuel usage, etc.), control equipment parameters (i.e. baghouse fan speeds, scrubber liquid flow rates, etc.), and ambient conditions (i.e. weather conditions, etc.) during testing.

(b) Copies of all data sheets from the test run(s).

(c) A description and explanation of any erroneous data or unusual circumstance(s) and the cause for such situation.

(d) A final conclusion section describing the outcome of the testing.

(E) The following conditions apply to the verification of NAAQS modeling analysis: {Chapter 4}

(1) The stack dimensions of the following emission points shall be constructed as indicated below:

Emission Point ID#	Emission Point Name	Minimum Stack Height (m)	Stack Exit Point Maximum Inside Diameter (m)
DM01	Dry Mill Receiving Baghouse	44.99	1.40
DM04	Grain Conveying, Milling, and Classification Vent	48.01	1.80
DM04A	Flour Conveyor Baghouse	34.99	0.50

Emission Point ID#	Emission Point Name	Minimum Stack Height (m)	Stack Exit Point Maximum Inside Diameter (m)
DM10	Byproduct Conveying Baghouse	45	0.6
DM11	Byproduct Storage Baghouse	45	0.5
DM12	Byproduct Loadout Baghouse	30	0.6
DM39	Degermination Scrubber	85	2.1
DM05	Fermentation RTO	30.5	1.7
DM09	Denatured Ethanol Loadout Flare	11	0.6
DM07A	Natural Gas Fired DDGS Dryer #1	65	1.2
DM07B	Natural Gas Fired DDGS Dryer #2	65	1.2
DM07C	Natural Gas Fired DDGS Dryer #3	65	1.2
DM07D	Natural Gas Fired DDGS Dryer #4	65	1.2
DM07E	Natural Gas Fired DDGS Dryer #5	65	1.2
DM07F	Natural Gas Fired DDGS Dryer #6	65	1.2
DM07G	Natural Gas Fired DDGS Dryer #7	65	1.2
DM07H	Natural Gas Fired DDGS Dryer #8	65	1.2
DM08A	DDGS Cooling Baghouse #1	45	1.3
DM08B	DDGS Cooling Baghouse #2	45	1.3
DM08C	DDGS Cooling Baghouse #3	45	1.3
DM13-20C	Dry Mill Cooling Tower	13.7	12.5

A site survey (using 1422' MSL as basis for ground level to measure stack heights), or similar documentation containing the as-built stack dimensions, shall be maintained on-site and kept for the life of the source. If stack dimensions do not comply with the table above, the owner or operator shall notify the NDEQ prior to start-up of any emission unit and, if requested, submit a revised air dispersion modeling analysis to the NDEQ to ensure that the source will not interfere with the attainment or maintenance of the ambient air quality standards in Chapter 4.

(2) The owner or operator shall sufficiently restrict public access to the source at the ambient air boundary relied upon in the air dispersion modeling analysis for the NAAQS compliance demonstration. The vertices of the boundary shall be located at the coordinates indicated below:

Fence-line Vertex ID#	UTM X (m)	UTM Y (m)
NW	642,005	4,586,995
NE	643,500	4,587,040
SE	643,558	4,584,725
SW-1	642,488	4,585,260
SW-2	642,475	4,585,980
SW-3	642,023	4,585,995

A site survey, or similar documentation containing the locations of the boundary vertices, shall be maintained on-site and kept for the life of the source. If the boundary dimensions do not comply with the table above, the owner or operator shall notify the NDEQ prior to start-up of any emission unit and, if requested, submit a revised air dispersion modeling analysis to the NDEQ to ensure that the source will not interfere with the attainment or maintenance of the ambient air quality standards in Chapter 4.

III.(A) Specific Conditions for Grain Receiving and Processing

(1) Permitted Emission Points: The source is permitted to construct the emission points and associated emission units identified in the following table:

Emission Point ID#	Required Control Equipment ID# and Control Equipment Description	Emission Unit Description
DM01	DM01: Dry Mill Receiving Baghouse	EU-DM01A: Rail Unloading
		EU-DM01B: Truck Unloading
DM04	DM04: Grain Conveying and Milling Baghouse	EU-DM04-1: Grain Conveying
		EU-DM04-2: Grain Cleaning
		EU-DM04-3: Hammermilling
		EU-DM04-4: Grain Classification
DM04A	DM04A: Flour Conveyor Baghouse	EU-DM04A: Flour Conveyor

(2) Emission Limitations and Testing Requirements:

Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Initial performance testing, if required, shall be conducted in accordance with Specific Condition II.(D).

Emission Point ID#	Pollutant	Permitted Limit	Averaging Period	Basis for Permit Limit	Initial Performance Testing Required (Yes/No)
DM01	PM/PM_{10}	0.004 gr/dscf	3-hr or test method average	Chapter 19	Yes
DM04	PM/PM_{10}	0.004 gr/dscf	3-hr or test method average	Chapter 19	Yes
DM04A	PM/PM_{10}	0.004 gr/dscf	3-hr or test method average	Chapter 19	Yes

(3) Operational and Monitoring Requirements and Limitations

(a) Emissions from the emission units identified in Condition III.(A)(1) shall be controlled by pollution control equipment as follows: EU-DM01A and EU-DM01B shall be controlled by DM01; EU-DM04-1, EU-DM04-2, EU-DM04-3, EU-DM04-4 shall be controlled by DM04; and EU-DM04A shall be controlled by DM04A. {Chapters 19 and 20}

(b) Operation and maintenance of each baghouse shall be in accordance with the following requirements: {Chapters 19 and 20}

(i) The baghouse shall be operated and be controlling emissions at all times when the associated emission units are in operation.

(ii) The baghouse shall be equipped with an operational pressure differential indicator. Pressure differential indicator readings shall be recorded at least once each day that the associated baghouse is operating.

(iii) Baghouse filter bags are to be inspected and/or replaced as often as necessary to ensure proper operation or more frequently as indicated by pressure differential indicator readings or other indication of bag failure.

(iv) Observations at least once each day during daylight hours of baghouse operation shall be conducted to determine whether there are visible emissions from the stack, leaks, noise, or other indications that corrective action is needed. If corrective action is required, it shall occur immediately.

(v) The owner or operator shall maintain an on-site inventory of spare bags of each type used to ensure rapid replacement in the event of bag failure.

(c) Grain receiving operations, by truck, identified in Condition III.(A)(1) shall be located inside a building and all hopper bottom trucks shall utilize choke feed practices during receipt of grain. Grain receiving operations, by rail, identified in Condition III.(A)(1) shall be located inside a building that is fitted with plastic strip curtains on the entrances and exits. {Chapters 19 and 20}

(4) Applicable NSPS, NESHAP, and MACT Requirements:

The affected facilities associated with the following emission points are subject to the NSPSs listed below: DM01, DM04, and DM04A.

Applicable Standard	Title	Rule Citation
NSPS, Subpart A	General Provisions	Chapter 18, Sec. 001.01 40 CFR 60.1
NSPS, Subpart DD	Grain Elevators	Chapter 18, Sec. 001.19 40 CFR 60.300

(5) Reporting and Recordkeeping Requirements:

(a) Records documenting the date, time, and pressure differential reading for each day the associated baghouse is in operation.

(b) Filter replacement records including the date the filter replacement occurred and the type of filter installed.

(c) Records documenting the date, time, observations, and corrective actions taken for each day the associated baghouse is in operation.

(d) For affected facilities subject to NSPS, Subpart DD, notifications and record keeping as required by 40 CFR 60.7.

III.(B) Specific Conditions for Degermination

(1) Permitted Emission Points: The source is permitted to construct the emission points and associated emission units identified in the following table:

Emission Point ID#	Required Control Equipment ID# and Control Equipment Description	Emission Unit Description
DM39	DM39: Degermination Wet Scrubber	EU-DM39A: Germ Dryer #1
		EU-DM39B: Germ Dryer #2
		EU-DM39C: Germ Dryer #3
		EU-DM39D: Germ Dryer #4
		EU-DM39E: Germ Cooler #1
		EU-DM39F: Germ Cooler #2

(2) Emission Limitations and Testing Requirements:

(a) Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Initial performance testing, if required, shall be conducted in accordance with Specific Condition II.(D).

Emission Point ID#	Pollutant	Permitted Limit	Averaging Period	Basis for Permit Limit	Initial Performance Testing Required (Yes/No)
DM39	PM/PM_{10}	10.24 lb/hr	3-hr or test method average	Chapter 19	Yes
	SO_2	11.92 lb/hr	3-hr or test method average	Chapter 19	Yes
	VOC	6.18 lb/hr[1]	3-hr or test method average	Chapter 19	Yes
	HAP	50% Control Efficiency or 20.0 ppmvd for combined HAPs[2]	Speciation and Quantification of HAP composition at inlet and outlet	Chapter 27	Yes

[1]Expressed as mass of VOC
[2]Limitation shall be complied with in accordance with Specific Conditions III.(B)(2)(b) and III.(B)(2)(c).

(b) A weighted average of the control efficiency for the combined HAPs shall be calculated using the following equation:

$$Efficiency = (1 - \frac{\Sigma C}{\Sigma U}) \times 100$$

Where: Efficiency = the combined HAP control efficiency
C = the controlled (outlet) individual HAP emission rates
U = the uncontrolled (inlet) individual HAP emission rates

(c) If the HAP limitation cannot be achieved, ADM shall submit a revised HAP BACT analysis and a significant construction permit revision request to the Department within

forty-five (45) days of submitting the test results to the Department. The HAP limitation may be subject to revisions after the opportunity for public comment.

(3) Operational and Monitoring Requirements and Limitations

(a) Emissions from the emission units identified in Condition III.(B)(1) shall be controlled by pollution control equipment as follows: EU-DM39A and EU-DM39B shall be controlled by DM39. {Chapters 19}

(b) Operation and maintenance of each scrubber shall be in accordance with the following requirements: {Chapters 19 and 27}

(i) The scrubber shall be operated and be controlling emissions at all times when the associated emission units are in operation.

(ii) The scrubber shall be equipped with devices capable of continuously monitoring operating parameters including, at a minimum, the scrubbing liquid temperature, scrubbing liquid flow rate, and pressure differential. Operating parameter readings shall be recorded at least once each day the scrubber is in operation.

(iii) All monitored operating parameters of the scrubber shall be maintained at the levels recorded during the most recent performance test that demonstrated compliance with the permitted emissions limits. Alternative levels may be used providing the facility can justify that better emissions control is being achieved. Normal operating parameters, or operating parameter ranges, that demonstrate compliance with the permitted emissions limits, with appropriate averaging periods shall be submitted with the source's operating permit application.

(iv) Observations at least once each day during daylight hours of scrubber operation shall be conducted to determine whether there are leaks, noise, or other indications that corrective action is necessary. If corrective action is required, it shall occur immediately.

(4) Applicable NSPS, NESHAP, and MACT Requirements:

The Department has not identified any NSPS, NESHAP, or MACT requirements that apply to the emission points or emission units listed in Condition III.(B)(1).

(5) Reporting and Recordkeeping Requirements:

(a) Records documenting the date, time, temperature and flow rate of scrubbing liquid, and the pressure differential reading for each day the associated scrubber is in operation.

(b) Records documenting the date, time, observations, and corrective actions taken for each day the associated scrubber is in operation.

III.(C) Specific Conditions for Fermentation, Distillation, and Nitrogen Stripping

(1) Permitted Emission Points:

(a) The source is permitted to construct the emission points and associated emission units identified in the following table:

Emission Point ID#	Required Control Equipment ID# and Description	Emission Unit Description
DM05	DM05: Fermentation RTO	EU-DM05G: Two Slurry Mix Tanks
		EU-DM05H: Two Pre-Cook Tanks
		EU-DM05I: Two Barometric Condensers
		EU-DM05J: Ten Liquefaction Tanks
		EU-DM05K: Two Evaporator Feed Tanks
		EU-DM05L: Two Decanter (Centrifuge) Feed Tanks
		EU-DM05M: Centrate Tank
		EU-DM05N: Six Evaporators
		EU-DM05O: One CDS (30% DS Product) Tank
		EU-DM05P: One Waste Water Transfer Tank
		EU-DM05Q: One Evaporator (Contaminate) Condensate Tank
		EU-DM05R: Seven Temper Tanks
		EU-DM05S: Three Grind Tanks
		EU-DM05T: One Recycle Tank
		EU-DM05U: One Evaporator Product Tank
		EU-DM05V: One Process Water Tank
		EU-DM05F: Nitrogen Stripper Scrubber
		DM05D/E: Distillation and Dehydration Vent Gas Scrubber
		DM05B/C: CO_2 Scrubber
		EU-DM05A: Propagators
DM05D/E[1]	DM05D/E: Distillation and Dehydration Vent Gas Scrubber	EU-DM05D: Distillation Equipment
		EU-DM05E: Dehydration Equipment
DM05B/C[1]	DM05B/C: CO_2 Scrubber	EU-DM05B: Fermentation Tanks
		EU-DM05C: Two Beerwells

[1] Emissions from DM05D/E: Distillation and Dehydration Vent Gas Scrubber and DM05B/C: CO_2 Scrubber are required to be controlled by DM05: Fermentation RTO.

(b) The source is permitted to construct the following emissions unit identified in the following table at the maximum capacity and using the fuel types listed:

Emission Point ID#	Emission Unit ID# and Description	Maximum Capacity (MMBtu/hr)	Permitted Fuel Types
DM05	DM05: Fermentation RTO	18.0	Natural Gas

(2) Emission Limitations and Testing Requirements:

(a) Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Initial performance testing, if required, shall be conducted in accordance with Specific Condition II.(D).

Emission Point ID#	Pollutant	Permitted Limit	Averaging Period	Basis for Permit Limit	Initial Performance Testing Required (Yes/No)
DM05	SO_2	2.91 lb/hr	3-one hour test runs or test method average	Chapter 19	Yes
	VOC	98% Control Efficiency or 10 ppmv as VOC [1]	3-one hour test runs or test method average	Chapter 19	Yes
	VOC	8.4 lb/hr [2]	3-one hour test runs or test method average	Chapter 19	Yes

[1] Control Efficiency as measured across the RTO (DM05); or concentration as measured at RTO exhaust
[2] Expressed as mass of VOC

(b) Emissions limitations and testing requirements in accordance with NESHAP, Subpart FFFF.

(3) Operational and Monitoring Requirements and Limitations

(a) Emissions from the emission units identified in Condition III.(C)(1) shall be controlled by pollution control equipment as follows: EU-DM05B and C shall be controlled by DM05B/C, EU-DM05D and E shall be controlled by DM05D/E, and EU-DM05A, DM05B/C, DM05D/E, and EU-DM05F though EU-DM05V shall be controlled by DM05. {Chapters 19 and 27}

(b) Operation and maintenance of each scrubber shall be in accordance with the following requirements: {Chapters 19 and 27}

(i) The scrubber shall be operated and be controlling emissions at all times when the associated emission units are in operation.

(ii) The scrubber shall be equipped with devices capable of continuously monitoring operating parameters including, at a minimum, the scrubbing liquid temperature, scrubbing liquid flow rate, and pressure differential. Operating parameter readings shall be recorded at least once each day the scrubber is in operation.

(iii) All monitored operating parameters of the scrubber shall be maintained at the levels recorded during the most recent performance test that demonstrated compliance with the permitted emissions limits. Alternative levels may be used providing the facility can justify that better emissions control is being achieved. Normal operating parameters, or operating parameter ranges, that demonstrate compliance with the permitted emissions limits, with appropriate averaging periods shall be submitted with the source's operating permit application.

(iv) Observations at least once each day during daylight hours of scrubber operation shall be conducted to determine whether there are leaks, noise, or other indications that corrective action is necessary. If corrective action is required, it shall occur immediately.

(c) Operation and maintenance of each RTO shall be in accordance with the following requirements {Chapters 19, 27, and 28}:

(i) The RTO shall be operated and be controlling emissions at all times when the associated emission units are in operation.

(ii) The RTO shall be equipped with a device capable of continuously monitoring and recording the temperature of the thermal oxidation combustion chamber(s).

(iii) All monitored operating parameters of the RTO shall be maintained at the levels recorded during the most recent performance test that demonstrated compliance with the permitted emissions limits. Alternative levels may be used provided the owner or operator can justify that better emissions control is being achieved. Prior to compliance being demonstrated the combustion chamber temperature shall not be operated below 1,400 degrees Fahrenheit. Combustion chamber temperature shall be averaged hourly from a minimum of one cycle of sampling, analyzing, and data recording for each successive fifteen minute period. Normal operating parameters, or operating parameter ranges, that demonstrate compliance with the permitted emissions limits, with appropriate averaging periods shall be submitted with the source's operating permit application.

(iv) Observations at least once each day during daylight hours of RTO operation shall be conducted to determine whether there are visible emissions from the stack, leaks, noise, or other indications that corrective action is necessary. If corrective action is required, it shall occur immediately.

(4) Applicable NSPS, NESHAP, and MACT Requirements:

The following emission units are subject to the NESHAPs listed below: DM05J, DM05K, DM05L, DM05M, DM05N, DM05O, DM05P, DM05Q, DM05R, DM05S, DM05T, DM05U, DM05V, DM05F, DM05D/E, DM05B/C, and DM05A.

Applicable Standard	Title	Rule Citation
NESHAP, Subpart A	General Provisions	Chapter 28, Sec. 001.01 Requirements Begin at 40 CFR 63.1
NESHAP, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing (MON)	Chapter 28, Sec. 001.78 Requirements Begin at 40 CFR 63.2430

(5) Reporting and Recordkeeping Requirements:

(a) Records documenting the date, time, temperature and flow rate of scrubbing liquid, and the pressure differential reading for each day the associated scrubber is in operation.

(b) Records documenting the date, time, observations, and corrective actions taken for each day the associated scrubber is in operation.

(c) Records documenting the date, time, and hourly-average temperatures for each day the associated RTO is in operation.

(d) Records documenting the date, time, observations, and corrective actions taken for each day the associated RTO is in operation.

(e) Reporting and recordkeeping as required by 40 CFR 63.2430.

III.(D) Specific Conditions for Organic Liquid Process and Storage Tanks

(1) Permitted Emission Points: The source is permitted to construct the storage and process tanks identified in the following table at the capacities and for the storage of the products listed:

Emission Point ID# & Tank ID#	Maximum Storage Capacity (gallons)	Product Stored in Tank
DM40 [1]	500,000	Alcohol Reclaim - Denatured Ethanol
DM41	500,000	200 Proof Day Tank #1
DM42	500,000	200 Proof Day Tank #2
DM43 [1]	500,000	Alcohol QC Tank - Denatured Ethanol
DM44 [1]	2,000,000	Denatured Ethanol Storage #1
DM45 [1]	2,000,000	Denatured Ethanol Storage #2
DM46 [1]	2,000,000	Denatured Ethanol Storage #3
DM47	8,225	Corrosion Inhibitor
DM48 [1]	500,000	Denaturant Storage
DM54	100,000	190 Proof Tank

[1] Subject to Subpart Kb

(2) Emission Limitations and Testing Requirements:

Refer to NSPS, Subpart Kb and NESHAP, Subpart FFFF for any specific emission limitations and testing requirements that may apply to the tanks listed above, as appropriate.

(3) Operational and Monitoring Requirements and Limitations:

(a) The corrosion inhibitor tank (DM47) shall be installed with a fixed roof and use submerged loading when transferring corrosion inhibitor into the tank. {Chapters 19 and 27}

(b) Tanks DM41, DM42, and DM54 shall each be equipped with a fixed roof in combination with an internal floating roof, in accordance with the specifications in 40 CFR 60.112b(a)(1). {Chapters 19 and 27}

(c) Tanks DM41, DM42, and DM54 are subject to the inspection requirements as described in 40 CFR 60.113b(a). {Chapter 27}

(d) Tanks DM40, DM43, DM44, DM45, DM46, and DM48 are subject to all applicable requirements of NSPS, Subpart Kb. {Chapter 18}

(e) The process tanks (DM41, DM42, and DM54) shall not have any direct product loadout capability/operations. All process tanks must loadout to additional processing equipment, other process tanks, or to the storage tanks at the facility.

(4) Applicable NSPS, NESHAP, and MACT Standards:

The following standards apply to DM40, DM43, DM44, DM45, DM46, and DM48:

Applicable Standard	Title	Rule Citation
NSPS, Subpart A	General Provisions	Chapter 18, Sec. 001.01 40 CFR 60.1
NSPS, Subpart Kb	Volatile Organic Liquid Storage Vessels (Including Liquid Storage Vessels)	Chapter 18, Sec. 001.62 40 CFR 60.110b

The following standards apply to DM40, DM41, DM42, DM43, DM44, DM45, DM46, DM47, DM48, and DM54:

Applicable Standard	Title	Rule Citation
NESHAP, Subpart A	General Provisions	Chapter 28, Sec. 001.01 Requirements Begin at 40 CFR 63.1
NESHAP, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing (MON)	Chapter 28, Sec. 001.78 Requirements Begin at 40 CFR 63.2430

(5) Reporting and Recordkeeping Requirements:

(a) The following apply to EU's DM40, DM43, DM44, DM45, DM46, and DM48:

(i) Notifications and record keeping as required by 40 CFR 60.7.

(ii) Reporting and recordkeeping as required by 40 CFR 60.115b.

(b) The following requirements apply to DM41, DM42, and DM54:

Records of inspections conducted in accordance with Condition III.(D)(3)(c).

(c) The following apply to EU's DM40, DM41, DM42, DM43, DM44, DM45, DM46, DM47, DM48, and DM54:

Reporting and recordkeeping as required by 40 CFR 63.2430.

III.(E) Specific Conditions for Ethanol Loadout

(1) Permitted Emission Points: The source is permitted to construct the emission points and associated emission units identified in the following table at the capacity and using the fuel types listed:

Emission Point ID#	Control Equipment ID# and Description	Emission Unit (EU) ID# and Description	Maximum Capacity	Permitted Fuel Type
DM09A	DM09A: Ethanol Loadout Flare #1	EU-DM09: Rail Loadout	720,000 gallons/hour loadout	Denatured Ethanol Vapors and Natural Gas
DM09B	DM09B: Ethanol Loadout Flare #2			

(2) Emission Limitations and Testing Requirements:

Refer to NESHAP, Subpart FFFF for any emission limitations and testing requirements that may apply to DM09A and DM09B.

(3) Operational and Monitoring Requirements and Limitations:

(a) The source shall use submerged or bottom loading when transferring liquid product from the storage tanks to tanker trucks and railcars. {Chapters 19 and 27}

(b) Truck and rail loadout of liquid product from EU-DM09 shall be controlled by a closed vapor recovery system with an enclosed flare at all times liquid product loadout is occurring. {Chapters 19 and 27}

(c) When ethanol loadout is occurring, a flame shall be present at the flare. The facility must install an appropriate safety device or flame monitoring system to ensure that truck and rail loadout cannot occur without the presence of a flame. {Chapters 19 and 27}

(4) Applicable NSPS, NESHAP, and MACT Requirements:

The following standards apply to DM09:

Applicable Standard	Title	Rule Citation
NESHAP, Subpart A	General Provisions	Chapter 28, Sec. 001.01 Requirements Begin at 40 CFR 63.1
NESHAP, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing (MON)	Chapter 28, Sec. 001.78 Requirements Begin at 40 CFR 63.2430

(5) Reporting and Recordkeeping Requirements:

(a) Reporting and recordkeeping as required by 40 CFR 63.2430.

III.(F) Specific Conditions for Feed Production

(1) Permitted Emission Points:

(a) The source is permitted to construct the emission points and associated emission units identified in the following table:

Emission Point ID#	Required Control Equipment ID# and Description	Emission Unit ID# and Description
DM07A	DM07A: Natural Gas Combustor #1	EU-DM07A: DDGS Dryer #1
DM07B	DM07B: Natural Gas Combustor #2	EU-DM07B: DDGS Dryer #2
DM07C	DM07C: Natural Gas Combustor #3	EU-DM07C: DDGS Dryer #3
DM07D	DM07D: Natural Gas Combustor #4	EU-DM07D: DDGS Dryer #4
DM07E	DM07E: Natural Gas Combustor #5	EU-DM07E: DDGS Dryer #5
DM07F	DM07F: Natural Gas Combustor #6	EU-DM07F: DDGS Dryer #6
DM07G	DM07G: Natural Gas Combustor #7	EU-DM07G: DDGS Dryer #7
DM07H	DM07H: Natural Gas Combustor #8	EU-DM07H: DDGS Dryer #8
DM08A	DM08A: DDGS Cooling Baghouse #1	EU-DM08A: DDGS Cooler #1
DM08B	DM08B: DDGS Cooling Baghouse #2	EU-DM08B: DDGS Cooler #2
DM08C	DM08C: DDGS Cooling Baghouse #3	EU-DM08C: DDGS Cooler #3
DM10	DM10: Feed/Germ Conveying Baghouse	EU-DM10: Feed/Germ Conveyor
DM11	DM11: Feed/Germ Storage Baghouse	EU-DM11: Feed/Germ Storage
DM12	DM12: Feed/Germ Loadout Baghouse	EU-DM12: Feed/Germ Loadout

(b) The source is permitted to construct the following emission units identified in the following table at the capacities and using the fuel types listed:

Emission Point ID#	Emission Unit ID# and Description	Capacity (MMBtu/hr)	Permitted Fuel Types
DM07A	DM07A: Natural Gas Combustor #1	93.7	Natural Gas
DM07B	DM07B: Natural Gas Combustor #2	93.7	Natural Gas
DM07C	DM07C: Natural Gas Combustor #3	93.7	Natural Gas
DM07D	DM07D: Natural Gas Combustor #4	93.7	Natural Gas
DM07E	DM07E: Natural Gas Combustor #5	93.7	Natural Gas
DM07F	DM07F: Natural Gas Combustor #6	93.7	Natural Gas
DM07G	DM07G: Natural Gas Combustor #7	93.7	Natural Gas
DM07H	DM07H: Natural Gas Combustor #8	93.7	Natural Gas

(2) Emission Limitations and Testing Requirements:

Pollutant emission rates from each emission point identified in the table below shall not exceed the permitted limits. Initial performance testing, if required, shall be conducted in accordance with Specific Condition II.(D).

Emission Point ID#	Pollutant	Permitted Limits per Emission Point	Averaging Period	Basis for Permit Limit	Initial Performance Testing Required (Yes/No)
DM07A DM07B DM07C DM07D DM07E DM07F DM07G DM07H	PM/PM_{10}	2.80 lb/hr	3-hour or test method average	Chapter 19	Yes
	SO_x	0.37 lb/hr	3-hour or test method average	Chapter 19	Yes
	NO_x	0.04 lb/MMBtu	3-hour or test method average	Chapter 19	Yes
	CO	0.11 lb/MMBtu	3-hour or test method average	Chapter 19	Yes
	VOC	5.16 lb/hr	3-hour or test method average	Chapter 19	Yes
	HAP	N/A	Speciation and Quantification of HAP composition at outlet	Chapter 27	Yes
DM08A DM08B DM08C	PM/PM_{10}	0.004 gr/dscf	3-hour or test method average	Chapter 19	Yes
	SO_x	4.49 lb/hr	3-hour or test method average	Chapter 19	Yes
	VOC	12.89 lb/hr	3-hour or test method average	Chapter 19	Yes
	HAP	N/A	Speciation and Quantification of HAP composition at outlet	Chapter 27	Yes
DM10 DM11 DM12	PM/PM_{10}	0.004 gr/dscf	3-hour or test method average	Chapter 19	Yes
	HAP	N/A	3-hour or test method average	Chapter 27	Yes
DM10	VOC	1.43 lb/hr	3-hour or test method average	Chapter 19	Yes
DM11	VOC	1.15 lb/hr	3-hour or test method average	Chapter 19	Yes
DM12	VOC	1.43 lb/hr	3-hour or test method average	Chapter 19	Yes

(3) Operational and Monitoring Requirements and Limitations:

(a) Emissions from EU-DM07A shall be controlled by DM07A, EU-DM07B shall be controlled by DM07B, EU-DM07C shall be controlled by DM07C, EU-DM07D shall be controlled by DM07D, EU-DM07E shall be controlled by DM07E, EU-DM07F shall be controlled by DM07F, EU-DM07G shall be controlled by DM07G, and EU-DM07H shall be controlled by DM07H. The emissions from EU-DM08A shall be controlled by DM08A, EU-DM08B shall be controlled by DM08B, EU-DM08C shall be controlled by DM08C, EU-DM10 shall be controlled by DM10, EU-DM11 shall be controlled by DM11, and EU-DM12 shall be controlled by DM12.

(b) Operation and maintenance of each combustor (DM07A, DM07B, DM07C, DM07D, DM07E, DM07F, DM07G, and DM07H) shall be in accordance with the following requirements: {Chapter 19}

(1) The combustor shall be operated and be controlling emissions at all times when the associated emission units are in operation.

(2) The combustor shall be equipped with a device capable of continuously monitoring and recording the temperature of the thermal oxidation combustion chamber(s).

(3) All monitored operating parameters of the combustor shall be maintained at the levels recorded during the most recent performance test that demonstrated compliance with the permitted emissions limits. Alternative levels may be used provided the owner or operator can justify that better emissions control is being achieved. Prior to compliance being demonstrated, the combustion chamber temperature shall not be operated below 1,500 degrees Fahrenheit. Combustion chamber temperature shall be averaged hourly from a minimum of one cycle of sampling, analyzing, and data recording for each successive fifteen minute period. Normal operating parameters, or operating parameter ranges, that demonstrate compliance with the permitted emissions limits, with appropriate averaging periods shall be submitted with the source's operating permit application.

(4) Observations at least once each day during daylight hours of combustor operation shall be conducted to determine whether there are visible emissions from the stack, leaks, noise, or other indications that corrective action is necessary. If corrective action is required, it shall occur immediately.

(c) Operation and maintenance of each baghouse shall be in accordance with the following requirements: {Chapter 19}

(1) The baghouse shall be operated and be controlling emissions at all times when the associated emission units are in operation.

(2) The baghouse shall be equipped with an operational pressure differential indicator. Pressure differential indicator readings shall be recorded at least once each day that the associated baghouse is operating.

(3) Baghouse filter bags are to be inspected and/or replaced as often as necessary to ensure proper operation or more frequently as indicated by pressure differential indicator readings or other indication of bag failure.

(4) Observations at least once each day during daylight hours of baghouse operation shall be conducted to determine whether there are visible emissions from the stack, leaks, noise, or other indications that corrective action is needed. If corrective action is required, it shall occur immediately.

(5) The owner or operator shall maintain an on-site inventory of spare bags of each type used to ensure rapid replacement in the event of bag failure.

(4) Applicable NSPS, NESHAP, and MACT Requirements:

The following standards apply to the Natural Gas Combustors (DM07A, DM07B, DM07C, DM07D, DM07E, DM07F, DM07G, and DM07H):

Applicable Standard	Title	Rule Citation
NSPS, Subpart A	General Provisions	Chapter 18, Sec. 001.01 40 CFR 60.1
NSPS, Subpart Dc	Small Industrial, Commercial, Institutional Steam Generation Units	Chapter 18, Sec. 001.52 40 CFR 60.40c

(5) Reporting and Recordkeeping Requirements:

(a) Records documenting the date, time, and hourly-average temperatures for each day the associated combustor is in operation.

(b) Records documenting the date, time, observations, and corrective actions taken for each day the associated combustor is in operation.

(c) Records documenting the date, time, and pressure differential reading for each day the associated baghouse is in operation.

(d) Filter replacement records including the date the filter replacement occurred and the type of filter installed.

(e) Records documenting the date, time, observations, and corrective actions taken for each day the associated baghouse is in operation.

(f) Notifications and record keeping as required by 40 CFR 60.7

(g) Reporting and recordkeeping as required by 40 CFR 60.48c

III.(G) Specific Conditions for Emergency Equipment

(1) Permitted Emission Points: The source is permitted to construct the emission points and associated emission units identified in the following table at the capacities and using the fuel types listed:

Emission Point ID#	Emission Unit ID# and Description	Capacity (HP)	Permitted Fuel Type
DM50A	EU-DM50A: Fire Water Pump Engine #1	460	Diesel Fuel
DM50B	EU-DM50B: Fire Water Pump Engine #2	460	Diesel Fuel
DM50C	EU-DM50C: Fire Water Pump Engine #3	460	Diesel Fuel
DM50D	EU-DM50D: Fire Water Pump Engine #4	460	Diesel Fuel
DM51	EU-DM51: Emergency Generator #1	134	Diesel Fuel
DM52	EU-DM52: Emergency Generator #2	201	Diesel Fuel
DM53A	EU-DM53A: Emergency Generator #3	804	Diesel Fuel
DM53B	EU-DM53B: Emergency Generator #4	804	Diesel Fuel

(2) Emission Limitations and Testing Requirements:

Refer to NSPS, Subpart IIII and NESHAP, Subpart ZZZZ for emission limitations and testing requirements that apply to the emergency fire water pump engines and generators.

(3) Operational and Monitoring Requirements and Limitations:

(a) Emission Units DM50A, DM50B, DM50C, DM50D, DM51, DM52, DM53A, and DM53B shall each be limited to 500 operating hours per any period of twelve (12) consecutive calendar months. At no time during the first eleven (11) months after start-up shall each engine's total operating hours exceed 500 hours. {Chapter 19}

(b) Each emergency fire water pump engine and emergency generator shall be equipped with a non-resettable hour meter to record the operating hours.

(c) The sulfur content of the diesel fuel combusted in the emergency equipment shall not exceed 0.05% by weight. {Chapters 18, 19, and 24}

(4) Applicable NSPS, NESHAP, and MACT Requirements:

The following standards may apply to the emergency fire water pump engines and emergency generators:

Applicable Standard	Title	Rule Citation
NSPS, Subpart A	General Provisions	Chapter 18, Sec. 001.01 40 CFR 60.1
NSPS, Subpart IIII	Stationary Compression Ignition Internal Combustion Engines	Chapter 18, Sec. 001.76 40 CFR 60.4200
NESHAP, Subpart A	General Provisions	Chapter 28, Sec. 001.01 40 CFR 63.1

Applicable Standard	Title	Rule Citation
NESHAP, Subpart ZZZZ	Stationary Reciprocating Internal Combustion Engines	Chapter 28, Sec. 001.88 40 CFR 63.6580

(5) Reporting and Recordkeeping Requirements:

(a) Fuel receipts for the diesel fuel from the supplier for the fuel combusted in the fire pump engines and generators. Fuel receipts shall state the sulfur content, by weight, in the distillate fuel.

(b) Hours of operation for the emergency generator and the emergency firewater pump engine for each calendar month and for each period of 12 consecutive calendar months.

(c) Notifications and recordkeeping as required by 40 CFR 60.7.

(d) Recordkeeping as required by 40 CFR 60.4214.

(e) Initial notification requirements of 40 CFR 63.6645(d) and reporting in accordance with 40 CFR 63.6640(e) and 40 CFR 63.6645(d), as applicable.

III.(H) Specific Conditions for Equipment Leaks (DM91):

(1) Permitted Emission Points:

Each valve, pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, flange, or other connector in VOC service and any device or system considered an "affected facility" by NSPS, Subpart VV and/or NESHAP, Subpart FFFF located throughout the ethanol plant.

(2) Emission Limitations and Testing Requirements:

Emission limitations and testing requirements as established by 40 CFR 60 Subpart VV and 40 CFR 63 Subpart FFFF.

(3) Operational and Monitoring Requirements and Limitations:

Operational and Monitoring Requirements and Limitations as established by 40 CFR 60 Subpart VV and 40 CFR 63 Subpart FFFF.

(4) Applicable NSPS, NESHAP, and MACT Standards

Applicable Standard	Title	Rule Citation
NSPS, Subpart A	General Provisions	Chapter 18, Sec. 001.01 40 CFR 60.1
NSPS, Subpart VV	Equipment Leaks in the Synthetic Organic Chemicals Manufacturing Industry	Chapter 18, Sec. 001.14 40 CFR 60.480
NESHAP, Subpart A	General Provisions	Chapter 28, Sec. 001.01 Requirements Begin at 40 CFR 63.1
NESHAP, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing (MON)	Chapter 28, Sec. 001.78 Requirements Begin at 40 CFR 63.2430

(5) Reporting and Recordkeeping Requirements:

(a) Notifications and record keeping as required by 40 CFR 60.7.

(b) Record keeping and reporting as required by 40 CFR 60.486 and 40 CFR 60.487.

(c) Reporting and recordkeeping as required by 40 CFR 63.2430.

(d) Records including the date in which leak detection testing occurred, which valves, pumps, seals, open-ended lines, flanges, connectors, etc. were tested, and name of the individual who conducted the testing.

(e) The owner or operator shall submit a semi-annual leak detection and repair report every six (6) calendar months to the Department. The initial semi-annual report shall be submitted beginning six (6) months after the initial startup date [60.487(a)]. Subsequent reports for each six (6) calendar month reporting period shall be submitted within 45 days

following June 30 and December 31 of each year. Each report must be certified by a responsible official and include the following items:

(i) Date and time testing occurred;

(ii) Name of individual who conducted the testing; and

(iii) Additional information required to be reported to the Department in accordance with 40 CFR 60.480.

III.(I) Specific Conditions for the Cooling Towers (FS-05)

(1) Permitted Emission Points: The source is permitted to construct the emission points and associated emission unit identified in the following table with the number of cooling tower cells and at the circulation rate listed:

Emission Point ID#	Emission Unit Description	Number of Cooling Tower Cells	Maximum Circulation Rate (gal/hr)
DM13 thru DM20, DM20A, DM20B, DM20C	Dry Mill Ethanol Cooling Tower	11	9,900,000

(2) Emission Limitations and Testing Requirements:

The cooling towers identified above are not subject to any emissions limitations. Testing shall be conducted to ensure compliance with the TDS limitation established and is discussed below.

(3) Operational and Monitoring Requirements and Limitations:

(a) Drift loss from each cooling tower listed in Condition III.(I)(1) shall be limited to 0.0005 percent. Verification of drift loss shall be by manufacturer's guarantee. Manufacturer's drift loss guarantee shall be kept on site and readily available to Department representatives, upon request, for the life of the unit. {Chapter 19}

(b) TDS concentration of the cooling water in each cooling tower pool of the Dry Mill Ethanol Cooling Tower shall not exceed 3,000 ppm. A representative TDS sample shall be collected and tested from each cooling tower pool a minimum of once per calendar month. The test method used to determine TDS concentration shall be in accordance with an EPA approved method and be documented. {Chapter 19}

(4) Applicable NSPS, NESHAP, and MACT Requirements:

Applicable Standard	Title	Rule Citation
NESHAP, Subpart A	General Provisions	Chapter 28, Sec. 001.01 Requirements Begin at 40 CFR 63.1
NESHAP, Subpart FFFF	Miscellaneous Organic Chemical Manufacturing (MON)	Chapter 28, Sec. 001.78 Requirements Begin at 40 CFR 63.2430

(5) Reporting and Recordkeeping Requirements:

(a) TDS concentration in cooling water for each pool for each sampling event and test method used.

(b) Reporting and recordkeeping as required by 40 CFR 63.2430.

III.(J) Specific Conditions for Haul Roads (DM90)

(1) Permitted Emission Points: All on-site haul roads with production-related truck traffic shall be paved. The paved haul roads shall comply with the following conditions. {Chapters 19, 20, and 32}

(2) Emission Limitations and Testing Requirements:

(a) The haul road silt loading shall not exceed 3.0 g/m^2. {Chapter 19}

(3) Operational and Monitoring Requirements and Limitations:

(a) The owner or operator shall develop, maintain, and implement a Fugitive Dust Control Plan (FDCP) to control emissions from haul roads to comply with General Condition I.(J) and Condition III.(J)(2)(a). At a minimum, the requirements of the plan shall include that all paved haul roads shall be cleaned, using a vacuum sweeper, a minimum of three (3) times per week unless weather events are deemed not to warrant such cleaning.

(b) For each day of operation, the owner or operator shall conduct a survey of the plant property and haul roads to determine if visible fugitive emissions are being generated and leaving plant property. Implementation of fugitive dust control shall be taken upon observation of visible fugitive emissions leaving plant property or more frequency in accordance with the FDCP. Documentation of all corrective actions and daily surveys shall be maintained in a log that shall accompany the FDCP.

(4) Applicable NSPS, NESHAP, and MACT Requirements:

At this time the Department has not identified any NSPS, NESHAP, or MACT requirements that apply to the emission points or emission units listed in Condition III.(J)(1).

(5) Reporting and Recordkeeping Requirements:

(a) The FDCP shall be kept onsite and a copy shall be submitted to the NDEQ within thirty (30) days after initial startup of operations.

(b) Records documenting use of fugitive dust control measures on haul roads.

(c) Records of haul road visible emissions checks taken daily during operation and a description of corrective action taken, if needed.

(d) Records documenting when silt load testing was completed and the results of each testing.