UNITED STATES DISTRICT COURT

DISTRICT OF MINNESOTA

		Civil Action Number:
UNITED STATES,)	
PLAINTIFF, and the)	
)	
STATE OF MINNESOTA, BY THE)	
MINNESOTA POLLUTION CONTROL)	
AGENCY,)	CONSENT DECREE
Plaintiff-Intervenor,)	
)	
v.)	
)	
CENTRAL MN ETHANOL CO-OP,)	
Defendant.)	

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CONSENT DECREE

WHEREAS, Plaintiff, the United States of America (hereinafter "Plaintiff" or "the United States"), on behalf of the United States Environmental Protection Agency (herein, "EPA"), has. simultaneously with lodging of this Consent Decree, filed a Complaint alleging that Defendant, Central MN Ethanol Co-op (herein, "Central MN" or "Defendant") commenced construction of a major emitting facility and major modifications of a major emitting facility in violation of the Prevention of Significant Deterioration ("PSD") requirements at Part C of the Clean Air Act (the "Act"), 42 U.S.C. §§ 7470-7492, and the regulations promulgated thereunder at 40 C.F.R. § 52.21 (the "PSD Rules");

WHEREAS, Plaintiff further alleged that Defendant commenced construction of an emitting facility or modified an emitting facility without first obtaining the appropriate preconstruction permits and installing the appropriate air pollution control equipment required by 40 C.F.R. § 52.21 and the Minnesota State Implementation Plan ("SIP") approved pursuant to 42 U.S.C. § 7410;

WHEREAS, Plaintiff further alleged that potential air emissions from the Defendant's facility were underestimated;

WHEREAS, the State of Minnesota, through the Minnesota Pollution Control Agency ("MPCA" or "Plaintiff-Intervenor"), has, simultaneously with lodging of this Consent Decree, filed a Complaint in Intervention, alleging that Central MN was and is in violation of the Minnesota SIP, by failing to obtain the appropriate pre-construction permits, by failing to accurately report emissions increases, and by failing to install appropriate pollution control

technology, in violation of applicable state laws, including Minnesota Rule ("Minn. R.") 7007.3000;

WHEREAS, in 1994, eight hundred and twenty (820) farm families and local investors in the Little Falls area in north central Minnesota organized themselves into a cooperative known as Central MN to build an ethanol plant;

WHEREAS, Central MN applied for a minor source permit from MPCA in 1994 and began ethanol production in 1999;

WHEREAS, Central MN is a small facility that has produced ethanol in the following quantities:

- 1999 -- 13.32 million gallons
- 2000 -- 18.77 million gallons
- 2001 -- 19.63 million gallons;

WHEREAS, in 2002, Central MN began exploring the possibility of investing \$8-\$10 million to install gasification technology using a bio-mass fuel such as corn stalks or wood waste to replace Central MN's reliance on natural gas to fuel its plant and reduce volatile organic compound emissions;

WHEREAS, Central MN is working to test the proposed technology and will install a thermal oxidizer if the technology will not work;

WHEREAS, on February 7, 2002, the MPCA met with representatives of the ethanol plants in Minnesota, including Central MN, to discuss VOC test results, VOC emissions, and related compliance issues;

WHEREAS, on April 30, 2002, Central MN executed a letter of commitment to negotiate

with EPA and MPCA for the installation of controls on its plant to address the possible exceedance of air quality limits;

WHEREAS, Central MN has worked cooperatively with EPA and MPCA regarding the alleged violations and voluntarily provided requested information without information requests under Section 114 of the Act, 42 U.S.C. § 7414;

WHEREAS, the Defendant does not admit the violations alleged in the Complaints;

WHEREAS, the United States and Plaintiff-Intervenor (collectively "Plaintiffs"), and the Defendant have agreed that settlement of this action is in the best interest of the parties and in the public interest, and that entry of this Consent Decree without further litigation is the most appropriate means of resolving this matter; and

WHEREAS, Plaintiffs and the Defendant consent to entry of this Consent Decree without trial of any issues;

NOW, THEREFORE, without any admission of fact or law, and without any admission of the violations alleged in the Complaints, it is hereby ORDERED AND DECREED as follows:

I. JURISDICTION AND VENUE

1. The Complaints state a claim upon which relief can be granted against the Defendant under Sections 113 and 167 of the Act, 42 U.S.C. §§ 7413 and 7477, and 28 U.S.C. § 1355. This Court has jurisdiction of the subject matter herein and over the parties consenting hereto pursuant to 28 U.S.C. § 1345 and pursuant to Sections 113 and 167 of the Act, 42 U.S.C. § 7413 and 7477. Venue is proper under Section 113(b) of the Act, 42 U.S.C. § 7413(b), and under 28 U.S.C. § 1391(b) and (c).

II. APPLICABILITY

2. The provisions of this Consent Decree shall apply to and be binding upon the Plaintiffs and upon the Defendant as well as the Defendant's officers, employees, agents, successors and assigns. In the event Defendant proposes to sell or transfer its facility (i.e., a plant or mill) subject to this Consent Decree before termination of the Consent Decree, it shall advise such proposed purchaser or successor-in-interest in writing of the existence of this Consent Decree, and shall send a copy of such written notification by certified mail, return receipt requested, to the EPA Regional Administrator for the region in which the facility is located before such sale or transfer, if possible, but no later than the closing date of such sale or transfer. The Defendant shall provide a copy of the Consent Decree and the Control Technology Plan required in Paragraph 15 of this Consent Decree to the proposed purchaser or successor-ininterest. In the event the Defendant sells or otherwise assigns any of its right, title, or interest in its facility, prior to termination of the Consent Decree, the conveyance shall not release the Defendant from any obligation imposed by this Consent Decree unless the party to whom the right, title or interest has been transferred agrees in writing to fulfill the obligations of this Consent Decree.

III. FACTUAL BACKGROUND AND APPLICABLE DEFINITIONS

- 3. (a) Central MN is a "person" as defined in Section 302(e) of the Act, 42 U.S.C. § 7602(e), and the federal and state regulations promulgated pursuant to the Act.
- (b) Central MN owns and operates a plant in Little Falls, Minnesota, for the manufacture of ethanol. Central MN receives whole corn which is then milled, cooked, and fermented. After fermentation, the raw product is distilled to produce ethanol. Distillation

separates the liquid ethanol from the corn meal, which Central MN may dry or sell as wet mash for animal feed. The Plaintiffs allege that in the course of these manufacturing activities significant quantities of particulate matter ("PM"), particulate matter at or below 10 microns ("PM₁₀"), carbon monoxide ("CO"), volatile organic compounds ("VOCs"), nitrogen oxides ("NOx") and other pollutants are generated, including hazardous air pollutants ("HAPs") listed under Section 112(b)(1), 42 U.S.C. § 7412(b)(1) of the Act. The primary sources of these emissions are the feed dryers, fermentation units, gas boilers, cooling cyclones, ethanol truck load-out systems, and the fugitive dust emissions from the facility operations, including roads.

- (c) Plaintiffs allege that Central MN's ethanol plant in Little Falls, Minnesota is a "major emitting facility," as defined by Section 169(1) of the Act, 42 U.S.C. § 7479(1), and the federal and state regulations promulgated pursuant to the Act.
- (d) <u>Definitions:</u> Unless otherwise defined herein, terms used in this Consent Decree shall have the meaning given to those terms in the Act, and the federal and state regulations promulgated pursuant to the Act.

IV. COMPLIANCE PROGRAM SUMMARY

- 4. Central MN shall implement a program of compliance at its ethanol distillation facility to attain the emission levels required under this Consent Decree for VOC, PM, PM₁₀, CO, and NOx. Central MN's compliance program is summarized below in Paragraphs 5 through 10, and implemented through Paragraphs 15 through 17 and 25 through 27 of this Consent Decree.
- 5. Central MN shall implement a program to control and minimize fugitive particulate matter emissions from facility operations as set forth in the approved Control

Technology Plan required under Part V of this Consent Decree and which is Attachment 1 to this Consent Decree.

- 6. Central MN shall demonstrate compliance with the required emission levels on a unit-by-unit basis as set forth in the approved Control Technology Plan.
- 7. Central MN shall demonstrate compliance with the emission limits established under this Consent Decree by the use of performance testing, parametric monitoring, recordkeeping and reporting, or initial and periodic compliance testing, where appropriate, as set forth in the approved Control Technology Plan.
- 8. Central MN shall maintain records to demonstrate compliance with New Source Performance Standards ("NSPS"), Part 60, Subparts Dc, Kb, and VV, and its fugitive dust management program.
- 9. Central MN shall accept source-wide allowable emission caps equivalent to 95 tons per year ("TPY"), for each pollutant, for VOCs, PM, PM₁₀, sulfur dioxide ("SO₂"), NO_X, and CO based on a 12-month rolling sum, rolled monthly, and recorded monthly.
- 10. Central MN shall apply for a modification to its federally-enforceable operating permit to incorporate the 95 TPY allowable emission caps and the lower emission limits applicable to each unit as set forth in the approved Control Technology Plan.
- 11. Central MN shall obtain a federally-enforceable permit prior to beginning construction or operation of any future modification that will result in a significant net emission increase as defined by 40 C.F.R. Part 52, but will not exceed the 95 TPY allowable emission caps. The modifications required in Part V Section A ("Installation of Controls and Applicable Emission Limits") of this Consent Decree and any modification that qualifies under Minnesota

Rule 7007.1250 and 7007.1450 subp. 2 are excluded from the requirements of this Paragraph. For purposes of determining whether a modification will result in a significant net emissions increase, Central MN shall use results from its initial compliance testing to determine its past actual emissions baseline. Central MN shall include in its application for the federally-enforceable permit, and MPCA shall propose to incorporate in the permit, the 95 TPY allowable emission caps or a schedule to meet the 95 TPY allowable emission caps and all emission limits, monitoring and recordkeeping requirements as set forth in the approved Control Technology Plan and this Consent Decree, and Central MN shall not contest what is contained in its permit application.

- 12. If, as a result of any future modifications, prior to termination of the Consent Decree, the total limited potential emissions of VOCs, PM, PM₁₀, SO₂, NO_X and CO will exceed the 95 TPY allowable emission caps, then Central MN shall complete and submit for MPCA approval a source-wide PSD/NSR permit application that includes the approved Control Technology Plan requirements as set forth in this Consent Decree. To the extent that Central MN demonstrates, through results of compliance tests or evidence of operating conditions, that its facility has operated below the 95 TPY emission caps for 24 months, the facility shall be treated as a synthetic minor for air permitting requirements and permit requirements for future modifications will be governed by applicable state and federal regulations.
- 13. Except as provided in Paragraph 12, if as a result of any future modifications, prior to termination of the Consent Decree, the total limited potential emissions of VOCs, PM, PM₁₀, SO₂, NO_X and CO will exceed the 95 TPY allowable emission caps, then Central MN shall obtain a PSD/NSR permit prior to beginning construction of those modifications.

Following termination of the Consent Decree, Central MN shall obtain necessary permits or permit amendments, as required under applicable state and federal regulations.

14. Central MN shall include in its application, and MPCA shall propose to incorporate, the emission limits, monitoring and recordkeeping requirements of the approved Control Technology Plan and this Consent Decree into any existing or new permit issued to the source as federally-enforceable Title I permit conditions and such emission limits, monitoring and recordkeeping requirements shall remain applicable to the source for the life of its operation or until changed through a permit amendment. Central MN shall not contest what is contained in its permit application. Requirements under this Consent Decree excluded under this Paragraph as Title I conditions are NSPS Subparts Dc, Kb, and VV, and the fugitive emission control program referenced in Paragraphs 15(i) and (g), respectively. In addition, the Consent Decree shall be referenced in the permit as the legal basis for all applicable requirements created by the Consent Decree.

V. COMPLIANCE PROGRAM REQUIREMENTS

- A. <u>Installation Of Controls And Applicable Emission Limits</u>
- 15. Central MN shall implement a plan for the installation of air pollution control technology ("Control Technology Plan") capable of meeting the following emission level reductions for the identified units in subparagraphs (a) through (j). Central MN's Control Technology Plan, which has been approved by Plaintiffs, is Attachment 1 to this Consent Decree:
 - (a) <u>Feed Dryers</u>: 95 percent reduction of VOC or emissions no higher than 10 parts per million ("PPM") of VOC, 90 percent reduction of CO emissions or emissions no higher than 100 PPM CO, and reduction of PM and PM₁₀ based on operation of pollution control technology specified

in the approved Control Technology Plan and as established after initial performance testing pursuant to Paragraph 23 of this Consent Decree. A NO_X emission factor shall be established after initial performance testing required pursuant to Paragraph 22 of this Consent Decree. The emission factor will be used to determine compliance with Paragraph 15(g). The following unit is subject to these limits: EU 021

- (b) Fermentation Units: 95 percent reduction of VOC or if the inlet is less than 200 PPM of VOC, then 20 PPM or lower of VOC. The following units are subject to this limit: EU 007-012, EU 015-EU018
- (c) Gas Boilers: Installation of low NOx burner on EU 028 and EU 029. A NOx emission factor shall be established after initial performance testing required pursuant to Paragraph 22 of this Consent Decree. The emission factor will be used to determine compliance with Paragraph 15(g). The following units are subject to these limits: EU 028-029
- (d) Fugitive Dust Control PM: A program shall be developed for minimization of fugitive dust emissions from facility operations. The following area is subject to this program: FS 004
 - (e) Ethanol Loadout:

Truck loadout: Design an enclosure for total capture of VOC and operate a closed loop system vented to the feed dryer control equipment for destruction of the captured VOC.

Railcar loadout: All railcars shall be dedicated as ethanol only. The following unit is subject to this limit: FS 001

- (f) Additional Requirements for NOx Emission Units: Establish a Group NOx limit based on 0.04 lbs of NOx per unit, per MMBtu at capacity. An adjustment for propane usage may be made for a designated period of time based on a limit of 0.08 lbs of NOx per MMBtu. Emission factors for each unit in this group shall be established during the initial performance test required in Paragraph 22 of this Consent Decree and will be used to calculate compliance with the Group NOx limit, based on actual fuel usage for all emission units in this group. The fuel used by this group as a whole shall not allow NOx emissions in excess of the limits outlined in the approved Control Technology Plan. The following units are subject to this limit: EU 021, EU 028-029
- (g) Fugitive VOC: Implement and comply with the requirements of 40 C.F.R. Part 60, Subpart VV. The following unit is subject to these requirements: FS 005

- Additional Requirements for Hazardous Air Pollutants (h) ("HAPs"): Beginning no later than 180 days following the start-up of the last piece of control equipment required in the approved Control Technology Plan, Central MN shall continually operate its facility so as not to exceed source-wide allowable emissions of 9.0 TPY for any single HAP or 24.0 TPY for all HAPs based on a 12-month rolling sum, rolled monthly, and recorded monthly. For the first eleven months, beginning no later than 180 days following start-up of the last piece of control equipment required in the approved Control Technology Plan, compliance with the 12-month rolling sum will be demonstrated based on the schedule to meet applicable emission caps as set forth in the approved Control Technology Plan. If, based on emissions testing as set forth in the approved Control Technology Plan, additional control measures are required to meet the 9.0 or 24.0 TPY emission caps, such control measures shall be implemented and included in the operating permit application required under Paragraph 17.
- (i) New Source Performance Standards (NSPS): Identify and implement applicable NSPS requirements codified at 40 C.F.R. Part 60. The following NSPS apply: NSPS subpart Dc (Small Industrial Commercial-Institutional Steam Generating Units less than 29 MW (100 million BTu/hour)): NSPS subpart Kb (Volatile Organic Liquid Storage Vessels); and NSPS subpart VV (Synthetic Organic Chemicals Manufacturing Industry Leak Detection, Monitoring and Repair Requirements).
- (j) Alternative Control Technology/Operating Scenario: To the extent that an alternative control technology or operating scenario is chosen in accordance with the approved Control Technology Plan for which some or all of the above emission limits are not applicable, the applicable emission limits in the approved Control Technology Plan will control.
- 16. Central MN shall implement the approved Control Technology Plan in accordance with the schedule set forth in that plan. Central MN's approved Control Technology Plan is incorporated by reference herein and made directly enforceable by Plaintiffs under this Consent Decree.

B. <u>Permitting And Modifications</u>

- 17. <u>Source-wide Permit</u>: By no later than 180 days following the start-up of the last piece of control equipment required in the approved Control Technology Plan, Central MN shall apply for a modification to its federally-enforceable operating permit(s) to incorporate the 95 TPY source-wide allowable emission caps as described in Paragraph 9.
- 18. Future Modifications: Except as provided in Paragraph 12, for the effective period of the Consent Decree, Central MN shall obtain a federally-enforceable permit prior to beginning construction or operation of any future modification that will result in a significant net emission increase as defined by 40 C.F.R. Part 52, but will not exceed the 95 TPY allowable emission caps. The modifications required in Part V Section A ("Installation of Controls and Applicable Emission Limits") and the approved Control Technology Plan of this Consent Decree and any modification that qualifies under Minnesota Rule 7007.1250 and 7007.1450 subp. 2 are excluded from the requirements of this Paragraph. This permit shall incorporate the 95 TPY allowable emission caps or a schedule to meet the 95 TPY allowable emission caps and emission limits, monitoring and recordkeeping requirements as set forth in the approved Control Technology Plan and this Consent Decree, including the requirements establishing the emission level reductions within the Control Technology Plan.
- 19. In determining whether a future modification will result in a significant net emissions increase, Central MN cannot take credit for any emission reductions resulting from the implementation of the approved Control Technology Plan for netting purposes as defined by 40 C.F.R. § 52.21(b)(3). In addition, the emission reductions of PM, PM₁₀, NOx, SO₂ and CO required under this Consent Decree and the applicable NSPS may not be used for any emissions

offset, banking, selling or trading program. VOC emissions reductions up to 98 percent of the uncontrolled feed dryer emissions may not be used for any emissions offset, banking, selling or trading program.

20. Except as provided in Paragraph 12, Central MN shall obtain a PSD permit prior to beginning construction of any future modifications during the effective period of the Consent Decree that will cause any increase in its limited potential emissions of any pollutant regulated under the Act above the 95 TPY source-wide caps, or prior to relaxation of a federally-enforceable permit limit pursuant to 40 C.F.R. § 52.21(r)(4).

C. <u>Emission Limits</u>

- 21. <u>Unit Emission Limit for VOC, CO, NOx</u>: Beginning no later than 180 days following the start-up of each piece of control equipment required in its approved Control Technology Plan, Central MN shall continually operate each unit in accordance with the operating parameters set forth in the approved Control Technology Plan.
- 22. <u>NOx Emission Factors</u>: Following the initial performance test as required in Paragraphs 15 (a), (c), and (g) and 27, Central MN shall establish unit specific NO_X emission factors that it will use to calculate actual NO_X emissions to demonstrate compliance with Paragraph 15(g). The method to determine compliance with the limit in Paragraph 15(g) is specified in the approved Control Technology Plan.
- 23. <u>Unit Emission Limit for PM and PM₁₀</u>: By no later than 45 days following the initial performance test of the control equipment for the feed dryer as required in Paragraphs 15(a) and 27, Central MN shall propose PM and PM₁₀ emission limits based on the data collected from initial performance testing and other available pertinent information. Central MN

shall immediately comply with the proposed emission limit. MPCA will use the data collected and other available pertinent information to establish limits for PM and PM₁₀. MPCA shall provide written notice to Central MN of the established limit and the established limit shall be incorporated into and enforceable under this Consent Decree. If Central MN contests the MPCA's proposed limit, Central MN shall have 60 days to invoke the Dispute Resolution process pursuant to Part X ("Dispute Resolution") and obtain a stay from the Court. Until a limit is established under the Dispute Resolution process herein, Central MN shall comply with the emission limit(s) it proposed under this Paragraph.

24. <u>Unit Operating Permits</u>: By no later than 180 days following start-up of the last piece of control equipment required in its approved Control Technology Plan, Central MN shall apply for modification to its federally-enforceable operating permit to incorporate the emission limits, monitoring parameters, and recordkeeping set forth in the approved Control Technology Plan and this Consent Decree.

25. Source-wide Caps:

(a) Beginning no later than 180 days following start-up of the last piece of control equipment required in its approved Control Technology Plan, Central MN shall continually operate its facility so as not to exceed the source-wide allowable emission caps of 95 TPY for each pollutant for VOCs, PM, PM₁₀, SO₂, NO_x, and CO based on a 12-month rolling sum, rolled monthly, and recorded monthly. For the first eleven months, beginning no later than 180 days following start-up of the last piece of control equipment required in the approved Control Technology Plan, compliance with the 12-month rolling sum will be demonstrated based on a schedule to meet applicable emission caps as set forth in the approved Control Technology

Plan. This provision shall survive termination of this Consent Decree until the 95 TPY emission caps are amended by or incorporated into a federally-enforceable permit for the facility.

(b) Beginning no later than 180 days following start-up of the last piece of control equipment required in its approved Control Technology Plan, Central MN shall continually operate its facility so as not to exceed the source-wide allowable emission caps of 9.0 TPY for any single hazardous air pollutant or 24.0 TPY for all hazardous air pollutants based on a 12-month rolling sum, rolled monthly, and recorded monthly. For the first eleven months, beginning no later than 180 days following start-up of the last piece of control equipment required in the approved Control Technology Plan, compliance with the 12-month rolling sum will be demonstrated based on a schedule to meet applicable emission caps as set forth in the approved Control Technology Plan. This provision shall survive termination of this Consent Decree until the 9.0 TPY and 24.0 TPY emission caps are amended by or incorporated into a federally-enforceable permit for the facility.

D. Demonstration Of Compliance

- 26. Central MN shall demonstrate continuous compliance with the emission limits established under this Consent Decree by the use of parametric monitoring, recordkeeping and reporting, as set forth in the approved Control Technology Plan.
- 27. By no later than 120 days following the start-up of the last piece of control equipment required in the approved Control Technology Plan, Central MN shall demonstrate through emissions testing of each emissions unit as specified in the approved Control Technology Plan, conducted in accordance with a MPCA and U.S. EPA approved test protocol, that it has met the required destruction efficiency and/or emission limit. Central MN shall follow

all testing requirements in Minnesota Rule 7017. Central MN shall retest the dryer for VOCs, CO, PM, and PM₁₀ no less than annually for the effective period of the Consent Decree. Central MN shall retest all other units in accordance with MPCA's policy regarding performance testing frequency.

28. Central MN shall maintain control technology performance criteria monitoring data and records as set forth in the approved Control Technology Plan, and shall make them available to the Plaintiffs upon demand as soon as practicable.

E. Recordkeeping And Reporting Requirements

- 29. Beginning with the first full calendar quarter following lodging of this Consent Decree, Central MN shall submit written reports within 30 days following each calendar quarter to MPCA and U.S. EPA that itemize Consent Decree requirements and the approved Control Technology Plan requirements, the applicable deadlines, the dates the tasks were completed, unit emissions data and data to support Central MN's compliance status with the terms of this Consent Decree. Reports shall be sent to the addresses identified in Paragraph 63 ("Notice"). Emissions data may be submitted in electronic format.
- 30. Central MN shall preserve and retain all records and documents now in its possession or control, or which come into its possession or control, that support the reporting and compliance requirements under this Part for a period of three years following the termination of this Consent Decree, unless other regulations require the records to be maintained longer.
- 31. All notices, reports or any other submissions from Central MN shall contain the following certification and may be signed by an owner or operator of the company responsible for environmental management and compliance:

"I certify under penalty of law that I have personally examined the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

VI. CIVIL PENALTY

- 32. Within thirty (30) calendar days of entry of this Consent Decree, the Defendant shall pay to the Plaintiffs a civil penalty pursuant to Section 113 of the Act, 42 U.S.C. § 7413, in the amount of \$29,656 (Twenty-Nine Thousand Six Hundred and Fifty-Six Dollars). Pursuant to the Act, the following factors were considered in determining a civil penalty, in addition to other factors as justice may require, the size of the business, the economic impact of the penalty on the business, the violator's full compliance history and good faith efforts to comply, the duration of the violation, payment by the violator of penalties previously assessed for the same violation, the economic benefit of noncompliance, and the seriousness of the violation.
- 33. Of the total penalty, \$14,828, shall be paid to the United States by Electronic Funds Transfer ("EFT") to the United States Department of Justice, in accordance with current EFT procedures, referencing the USAO File Number and DOJ Case Number 90-5-2-1-07784, and the civil action case name and case number of the District of Minnesota. The costs of such EFT shall be Central MN's responsibility. Payment shall be made in accordance with instructions provided to Central MN by the Financial Litigation Unit of the U.S. Attorney's Office in the District of Minnesota. Any funds received after 11:00 a.m. (EST) shall be credited on the next business day. Central MN shall provide notice of payment, referencing the USAO File Number and DOJ Case Number 90-5-2-1-07784, and the civil action case name and case

number, to the Department of Justice and to EPA, as provided in Paragraph 63 ("Notice"). The total remaining amount, \$14,828 in civil penalties, shall be paid to the Plaintiff-Intervenor the State of Minnesota. Of that amount, \$9,828 shall be paid within thirty (30) calendar days of entry of this Consent Decree as a judgment of the Court. The remaining \$5,000 will only be paid to the Plaintiff-Intervenor the State of Minnesota if Central MN decides not to utilize alternative technology as described in the approved Control Technology Plan. The \$5,000 shall be paid within fourteen (14) days of the date of Central MN's written notice to the MPCA and EPA that Central MN will not utilize alternative technology. Payment to the Plaintiff-Intervenor the State of Minnesota shall be made in the form of a certified check payable to the Minnesota Pollution Control Agency and delivered to:

Enforcement Penalty Coordinator Minnesota Pollution Control Agency 520 Lafayette Road St. Paul, Minnesota 55155-4194

- 34. The Defendant shall pay statutory interest on any over due civil penalty or stipulated penalty amount at the rate specified in 31 U.S.C. § 3717. Upon entry of this Consent Decree, this Consent Decree shall constitute an enforceable judgment for purposes of post-judgment collection in accordance with Rule 69 of the Federal Rules of Civil Procedure, the Federal Debt Collection Procedure Act, 28 U.S.C. § 3001-3308, Minnesota Statute Chapter 16D and other applicable federal and state Authority. The Plaintiffs shall be deemed a judgment creditor for purposes of collection of any unpaid amounts of the civil and stipulated penalties and interest.
- 35. No amount of the civil penalty to be paid by Central MN shall be used to reduce its federal or state tax obligations.

VII. STIPULATED PENALTIES

- 36. The Defendant shall pay stipulated penalties in the amounts set forth below to the Plaintiffs, to be paid 50 percent to the United States and 50 percent to the Plaintiff-Intervenor, for the following:
- (a) for each day of failure to propose PM, and PM_{10} emissions limits under Paragraph 23:

1st through 30th day after deadline \$ 250

31st through 60th day after deadline \$ 500

Beyond the 60th day \$1,000

(b) for each day of failure to meet the deadlines for installation of control technology systems set forth in the Control Technology Plan and applying for, or obtaining, permits under Paragraphs 17, 18, 20, and 24:

1st through 30th day after deadline \$800

31st through 60th day after deadline \$1,200

Beyond 60th day \$2,000

(c) for failure to conduct a compliance test as required by Paragraph 27, per day per unit:

1st through 30th day after deadline \$ 250

31st through 60th day after deadline \$ 500

Beyond 60th day \$1,000

(d) for failure to demonstrate compliance with emission limits set forth in the approved Control Technology Plan or emission limits set pursuant to Part V Section C

("Emission Limits"): \$5000 per emissions test for each pollutant

(e) for each failure to submit reports or studies as required by Part V Section

E ("Recordkeeping and Reporting Requirements") of this Consent Decree, per day per report or
notice:

1st through 30th day after deadline \$ 250
31st through 60th day after deadline \$ 500
Beyond 60th day \$1,000

- (f) for failure to pay or escrow stipulated penalties, as specified in Paragraphs 37 and 38 of this section, \$500 per day per penalty demand.
- (g) for failure to notify the Plaintiffs pursuant to Paragraph 2 of Central MN's sale or transfer of the facility, \$250 per day.
- 37. Central MN shall pay stipulated penalties upon written demand by the Plaintiffs no later than thirty (30) days after Defendant receives such demand. Stipulated penalties shall be paid to the Plaintiffs in the manner set forth in Part VI ("Civil Penalty") of this Consent Decree.
- 38. Should Central MN dispute its obligation to pay part or all of a stipulated penalty, it may avoid the imposition of the stipulated penalty for failure to pay a penalty due to the Plaintiffs by placing the disputed amount demanded by the Plaintiffs, not to exceed \$20,000 for any given event or related series of events at any one plant, in a commercial escrow account pending resolution of the matter and by invoking the Dispute Resolution provisions of Part X within the time provided in Paragraph 37 for payment of stipulated penalties. If the dispute is thereafter resolved in Defendant's favor, the escrowed amount plus accrued interest shall be returned to the Defendant. Otherwise the Plaintiffs shall be entitled to the escrowed amount that

was determined to be due by the Court plus the interest that has accrued on such amount, with the balance, if any, returned to the Defendant.

39. The Plaintiffs reserve the right to pursue any other remedies for violations of this Consent Decree to which they are entitled. The Plaintiffs will not seek stipulated penalties and civil or administrative penalties for the same violation of the Consent Decree.

VIII. RIGHT OF ENTRY

40. Any authorized representative of the EPA or MPCA, or an appropriate federal or state agency, including independent contractors, upon presentation of proper credentials and in compliance with the facility's safety requirements, shall have a right of entry upon the premises of Central MN's plant identified herein at Paragraph 3(b) at any reasonable time for the purpose of monitoring compliance with the provisions of this Consent Decree, including inspecting plant equipment, and inspecting and copying all records maintained by Defendant required by this Consent Decree. Nothing in this Consent Decree shall limit the authority of EPA and MPCA to conduct tests and inspections under Section 114 of the Act, 42 U.S.C. § 7414, and Minnesota Statute §§ 15.04 and 116.091 or any other applicable law.

IX. FORCE MAJEURE

41. If any event occurs which causes or may cause a delay or impediment to performance in complying with any provision of this Consent Decree, Defendant shall notify the Plaintiffs in writing as soon as practicable, but in any event within twenty (20) business days of when Defendant first knew of the event or should have known of the event by the exercise of due diligence. In this notice Defendant shall specifically reference this Paragraph of this Consent Decree and describe the anticipated length of time the delay may persist, the cause or causes of

the delay, and the measures taken or to be taken by Defendant to prevent or minimize the delay and the schedule by which those measures will be implemented. Defendant shall adopt all reasonable measures to avoid or minimize such delays.

- 42. Failure by Defendant to provide notice to Plaintiffs of an event which causes or may cause a delay or impediment to performance shall render this Part IX voidable by the Plaintiffs as to the specific event for which the Defendant has failed to comply with such notice requirement, and, if voided, is of no effect as to the particular event involved.
- 43. The United States or MPCA shall notify the Defendant in writing regarding the Defendant's claim of a delay or impediment to performance as soon as practicable, but in any event within thirty (30) days of receipt of the Force Majeure notice provided under Paragraph 41. If the Plaintiffs agree that the delay or impediment to performance has been or will be caused by circumstances beyond the control of the Defendant, including any entity controlled by the Defendant, and that the Defendant could not have prevented the delay by the exercise of due diligence, the parties shall stipulate to an extension of the required deadline(s) for all requirement(s) affected by the delay by a period equivalent to the delay actually caused by such circumstances. The Defendant shall not be liable for stipulated penalties for the period of any such delay.
- 44. If the Plaintiffs do not accept the Defendant's claim that a delay or impediment to performance is caused by a force majeure event, to avoid payment of stipulated penalties, the Defendant must submit the matter to this Court for resolution within twenty (20) business days after receiving notice of the Plaintiffs' position, by filing a petition for determination with this Court. Once the Defendant has submitted this matter to this Court, the Plaintiffs shall have

twenty (20) business days to file its response to said petition. If the Defendant submits the matter to this Court for resolution and the Court determines that the delay or impediment to performance has been or will be caused by circumstances beyond the control of the Defendant, including any entity controlled by the Defendant, and that the Defendant could not have prevented the delay by the exercise of due diligence, the Defendant shall be excused as to that event(s) and delay (including stipulated penalties), for a period of time equivalent to the delay caused by such circumstances.

- 45. The Defendant shall bear the burden of proving that any delay of any requirement(s) of this Consent Decree was caused by or will be caused by circumstances beyond its control, including any entity controlled by it, and that the Defendant could not have prevented the delay by the exercise of due diligence. The Defendant shall also bear the burden of proving the duration and extent of any delay(s) attributable to such circumstances. An extension of one compliance date based on a particular event may, but does not necessarily, result in an extension of a subsequent compliance date or dates.
- 46. Unanticipated or increased costs or expenses associated with the performance of the Defendant's obligations under this Consent Decree shall not constitute circumstances beyond the control of the Defendant, or serve as a basis for an extension of time under this Part.

 However, failure of a permitting authority to issue a necessary permit in a timely fashion is an event of Force Majeure where the Defendant has taken all steps available to it to obtain the necessary permit including but not limited to:
 - (a) submitting a timely and complete permit application;
 - (b) responding to requests for additional information by the permitting

authority in a timely fashion; and

- (c) prosecuting appeals of any disputed terms and conditions imposed by the permitting authority in an expeditious fashion.
- 47. Notwithstanding any other provision of this Consent Decree, this Court shall not draw any inferences nor establish any presumptions adverse to either party as a result of Defendant delivering a notice of Force Majeure or the parties' inability to reach agreement.
- 48. As part of the resolution of any matter submitted to this Court under this Part IX, the parties by agreement, or this Court, by order, may in appropriate circumstances extend or modify the schedule for completion of work under this Consent Decree to account for the delay in the work that occurred as a result of any delay or impediment to performance agreed to by the Plaintiffs or approved by this Court. Defendant shall be liable for stipulated penalties for its failure thereafter to complete the work in accordance with the extended or modified schedule.

X. DISPUTE RESOLUTION

- 49. The dispute resolution procedure provided by this Part X shall be available to resolve all disputes arising under this Consent Decree, including but not limited to emission limits established by the MPCA in Part V Section C ("Emission Limits"), except as otherwise provided in Part IX regarding Force Majeure.
- 50. The dispute resolution procedure required herein shall be invoked upon the giving of written notice by one of the parties to this Consent Decree to another advising of a dispute pursuant to this Part X. The notice shall describe the nature of the dispute, and shall state the noticing party's position with regard to such dispute. The party receiving such a notice shall acknowledge receipt of the notice and the parties shall expeditiously schedule a meeting to

discuss the dispute informally not later than fourteen (14) days from the receipt of such notice.

- 51. Disputes submitted to dispute resolution shall, in the first instance, be the subject of informal negotiations between the parties. Such period of informal negotiations shall not extend beyond thirty (30) calendar days from the date of the first meeting between representatives of the Plaintiffs and the Defendant, unless the parties' representatives agree to shorten or extend this period.
- 52. In the event that the parties are unable to reach agreement during such informal negotiation period, the Plaintiffs shall provide the Defendant with a written summary of their position regarding the dispute. The position advanced by the Plaintiffs shall be considered binding unless, within forty-five (45) calendar days of the Defendant's receipt of the written summary of the Plaintiffs position, the Defendant files with this Court a petition which describes the nature of the dispute, and includes a statement of the Defendant's position and any supporting data, analysis, and/or documentation relied on by the Defendant. The Plaintiffs shall respond to the petition within forty-five (45) calendar days of filing.
- 53. Where the nature of the dispute is such that a more timely resolution of the issue is required, the time periods set out in this Part X may be shortened upon motion of one of the parties to the dispute.
- 54. Notwithstanding any other provision of this Consent Decree, in dispute resolution, this Court shall not draw any inferences nor establish any presumptions adverse to either party as a result of invocation of this Part X or the parties' inability to reach agreement. The final position of the Plaintiffs shall be upheld by the Court if supported by substantial evidence in the record as identified and agreed to by all the Parties.

55. As part of the resolution of any dispute submitted to dispute resolution, the parties, by agreement, or this Court, by order, may, in appropriate circumstances, extend or modify the schedule for completion of work under this Consent Decree to account for the delay in the work that occurred as a result of dispute resolution. Defendant shall be liable for stipulated penalties for its failure thereafter to complete the work in accordance with the extended or modified schedule.

XI. GENERAL PROVISIONS

- 56. Effect of Settlement. This Consent Decree is not a permit; compliance with its terms does not guarantee compliance with any applicable federal, state or local laws or regulations. To the extent that the terms of this Consent Decree conflict with the terms of any air quality permit, the terms of this Consent Decree shall control during the effective period of the Consent Decree.
- Decree constitutes full settlement of and shall resolve all past civil and administrative liability of the Defendant to the Plaintiffs for the violations alleged in the United States' and Plaintiff-Intervenor's Complaints and all civil and administrative liability of the Defendant for any violations at its facility based on facts and events that occurred during the relevant time period under the following statutory and regulatory provisions: (a) NSPS, 40 C.F.R. Part 60, including subparts Dc, Kb, and VV; (b) National Emission Standards for Hazardous Air Pollutants, 40 C.F.R. Part 63, pursuant to Sections 112(d) and 112(g) of the Act; (c) PSD requirements at Part C of the Act and the regulations promulgated thereunder at 40 C.F.R. § 52.21, and the Minnesota regulations which incorporate and/or implement the above-listed federal regulations in items (a)

through (c); (d) all air permit requirements under Minn. R. 7007.0050-7007.1850; (e) air emissions fee requirements under Minn. R. 7002.0025-7002.0095; (f) performance standards for stationary sources under Minn. R. 7011.0010-7011.9990, performance tests under Minn. R. 7017.2001-7017.2060; (g) notification, recordkeeping and reporting requirements under Minn. R. 7019.0100-7019.2000; and (h) emission inventory requirements under Minn. R. 7019.3000-7019.3100. For purposes of this Consent Decree, the "relevant time period" shall mean the period beginning when the United States' claims and/or Plaintiff-Intervenor's claims under the above statutes and regulations accrued through the date of entry of this Consent Decree. During the effective period of the Consent Decree, certain emission units shall be on a compliance schedule and any modification to these units, as defined in 40 C.F.R. § 52.21, which is not required by this Consent Decree is beyond the scope of this resolution of claims. This provision shall survive the termination of the Consent Decree.

- 58. Other Laws. Except as specifically provided by this Consent Decree, nothing in this Consent Decree shall relieve Defendant of its obligation to comply with all applicable federal, state and local laws and regulations. Subject to Paragraphs 39 and 57, nothing contained in this Consent Decree shall be construed to prevent or limit the United States' or MPCA's rights to obtain penalties or injunctive relief under the Act or other federal, state or local statutes or regulations, including but not limited to, Section 303 of the Act, 42 U.S.C. § 7603.
- 59. Third Parties. Except as otherwise provided by law, this Consent Decree does not limit, enlarge or affect the rights of any party to this Consent Decree as against any third parties. Nothing in this Consent Decree should be construed to create any rights, or grant any cause of action, to any person not a party to this Consent Decree.

- 60. <u>Costs</u>. Each party to this Consent Decree shall bear its own costs and attorneys' fees through the date of entry of this Consent Decree.
- 61. <u>Public Documents</u>. All information and documents submitted by the Defendant to the Plaintiffs pursuant to this Consent Decree shall be subject to public inspection, unless subject to legal privileges or protection or identified and supported as business confidential by the Defendant in accordance with 40 C.F.R. Part 2 and Minnesota Statute §§ 13.37 and 116.075.
- 62. Public Comments Federal Approval. The parties agree and acknowledge that final approval by the United States and entry of this Consent Decree is subject to the requirements of 28 C.F.R. § 50.7, which provides for notice of the lodging of this Consent Decree in the Federal Register, an opportunity for public comment, and consideration of any comments. The United States reserves the right to withdraw or withhold consent if the comments regarding this Consent Decree discloses facts or considerations which indicate that this Consent Decree is inappropriate, improper or inadequate. The Defendant and the Plaintiff-Intervenor consent to the entry of this Consent Decree.
- 63. Notice. Unless otherwise provided herein, notifications to or communications with the United States, EPA, MPCA or the Defendant shall be deemed submitted on the date they are postmarked and sent either by overnight receipt mail service or by certified or registered mail, return receipt requested. Except as otherwise provided herein, when written notification to or communication with the United States, EPA, MPCA or the Defendant is required by the terms of this Consent Decree, it shall be addressed as follows:

As to the United States:

Thomas L. Sansonetti
Assistant Attorney General
Environmental Enforcement Section
Environment and Natural Resources Division
U.S. Department of Justice
P.O. Box 7611, Ben Franklin Station
Washington, DC 20044-7611

As to the U.S. EPA:

Bruce Buckheit
Director, Air Enforcement Division
U.S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Mail Code 2242-A
Washington, DC 20004

and the EPA Regional office for the region in which the facility is located:

Region 5:

Cynthia A. King U.S. EPA, Region 5 C-14J 77 W. Jackson Blvd. Chicago, IL 60604

Compliance Tracker Air Enforcement Branch, AE-17J U.S. EPA, Region 5 77 W. Jackson Blvd. Chicago, IL 60604

As to Central MN Ethanol Cooperative: Central MN General Manager 17936 Heron Road Little Falls, MN 56345

and

(Counsel for Central MN)

Gerald L. Seck Larkin, Hoffman, Daly & Lindgren, Ltd. 1500 Wells Fargo Plaza 7900 Xerxes Avenue South Bloomington, MN 55431

Peder A. Larson
Peder Larson & Associates, PLC
5200 Willson Road
Suite 150
Minneapolis, MN 55424

As to Plaintiff-Intervenor the State of Minnesota, through the MPCA:

Rhonda Land Minnesota Pollution Control Agency 520 Lafayette Road N St. Paul, MN 55155-4194

Kathleen L. Winters Office of the Attorney General NCL Towers Suite 900 445 Minnesota Street St. Paul, MN 55101-2127

- 64. <u>Change of Notice Recipient</u>. Any party may change either the notice recipient or the address for providing notices to it by serving all other parties with a notice setting forth such new notice recipient or address.
- 65. <u>Modification</u>. There shall be no modification of this Consent Decree without written agreement of all the parties. There shall be no material modification of this Consent Decree without the written agreement of the parties and by Order of the Court. Prior to complete termination of the requirements of this Consent Decree pursuant to Paragraph 67, the parties may, upon motion to the Court, seek to terminate provisions of this Consent Decree.

66. <u>Continuing Jurisdiction</u>. The Court retains jurisdiction of this case after entry of this Consent Decree to enforce compliance with the terms and conditions of this Consent Decree and to take any action necessary or appropriate for its interpretation, construction, execution, or modification. During the term of this Consent Decree, any party may apply to the Court for any relief necessary to construe or effectuate this Consent Decree.

XII. TERMINATION

67. This Consent Decree shall be subject to termination upon motion by any party after the Defendant satisfies all requirements of this Consent Decree and has operated the control technologies identified in the approved Control Technology Plan in compliance with emission limits, and has demonstrated for 24 months that its actual emissions of VOCs, PM, PM₁₀, SO₂, NOx and CO have remained under 95 TPY. For purposes of meeting the 24-month performance requirement in this Paragraph, Defendant may demonstrate that its actual emissions remained under the 95 TPY allowable emission caps by either using the results of its initial compliance tests or evidence of operating conditions since the installation of the control equipment required in this Consent Decree and in the approved Control Technology Plan. At such time, if the Defendant believes that it is in compliance with the requirements of this Consent Decree, and has paid the civil penalty and any stipulated penalties required by this Consent Decree, then the Defendant shall so certify to the Plaintiffs, and unless the Plaintiffs object in writing with specific reasons within forty-five (45) days of receipt of the certification, the Court shall order that this Consent Decree be terminated on Defendant's motion. If the United States or MPCA objects to the Defendant's certification, then the matter shall be submitted to the Court for resolution under Part X ("Dispute Resolution") of this Consent Decree. In such case, the

Defendant shall bear the burden of	proving that this Consent	Decree should be ter	minated.
So entered in accordance w	ith the foregoing this	day of	, 2002.
	United States District Co	ourt Judge	

FOR PLAINTIFF, UNITED STATES OF AMERICA:

Tom	San	soneth.	

Date 9.10.02

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United States Attorney

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Assistant U.S. Attorney Attorney ID No. 142013

District of Minnesota

U.S. Courthouse

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Suite 600

Minneapolis, MN 55415

FOR U.S. ENVIRONMENTAL PROTECTION AGENCY:

John Peter Suarez

Assistant Administrator

Office of Enforcement and Compliance Assurance

U.S. Environmental Protection Agency

Ariel Rios Building

1200 Pennsylvania Avenue, N.W.

Washington, DC 20460

FOR U.S. ENVIRONMENTAL PROTECTION AGENCY:

Date 9.20.02

Thomas V. Skinner
Regional Administrator
U.S. Environmental Protection Agency
Region 5
77 West Jackson Street
Chicago, IL 60604

FOR THE PLAINTIFF-INTERVENOR, THE STATE OF MINNESOTA POLLUTION CONTROL AGENCY:

Com	nissioner Karen	A. Studders
Мiņя	esota Pollution C	Control Agency
52Ó L	afayette Road	

St. Paul, MN 55155

Date _____

Date 18ckaper 2002

Kathleen L. Winters Office of the Attorney General NCL Towers Suite 900 445 Minnesota Street St. Paul, MN 55101-2127

FOR DEFENDANT, CENTRAL MN ETHANOL CO-OP:

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Date 8/26/02

Date 8/26/02

Date 8/26/02

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Central MN Ethanol Coop Little Falls, Minnesota



Control Technology Plan

August 23, 2002

Prepared by:

Environmental Resource Group, LLC 1000 IDS Center 80 South Eighth Street Minneapolis, Minnesota 55402

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1.0 INTRODUCTION

On August 26, 2002, Central MN Ethanol Coop (CMEC) signed a consent decree that requires implementing a compliance program at the com dry mill ethanol plant operating in Little Falls, Minnesota. CMEC prepared and submitted this Control Technology Plan (CTP) as an integral part of the consent decree. This CTP fulfills the consent decree requirement and has been reviewed and approved by the US Environmental Protection Agency (USEPA) and the Minnesota Pollution Control Agency (MPCA) as part of the consent decree.

CMEC's CTP includes the following:

- (a). Identification of all units to be controlled;
- (b). Engineering design criteria for all proposed controls capable of meeting the emission levels required by Part V of the consent decree;
- (c). Proposed short-term and long-term emission limits and controlled outlet concentrations for each pollutant as appropriate;
- (d). A schedule for expedited installation with specific milestones applicable on a unit-by-unit basis;
- (e). Proposed monitoring parameters for all control equipment and parameter ranges;
- (f). Identification of all units to be emission tested under Paragraph 15 of the consent decree and a schedule for initial tests and retest:
- (g). The test methods that will be used to demonstrate compliance with the emissions levels set forth in the consent decree; and
- (h). Program for minimization of fugitive dust emissions from facility operations.

2.0 EMISSION UNITS REQUIRING POLLUTION CONTROL EQUIPMENT

The following emission units, fugitive sources, and control equipment have been designated as affected units in the consent decree and have emission limits requiring pollution control technology.

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EU007	Pre-fermenter	CE002	Scrubber (VOC)
EU008	Fermentation Tank #1	CE002	Scrubber (VOC)
EU009	Fermentation Tank #2	CE002	Scrubber (VOC)
EU010	Fermentation Tank #3	CE002	Scrubber (VOC)
EU011	Fermentation Tank #4	CE002	Scrubber (VOC)
EU012	Beerwell #1	CE002	Scrubber (VOC)
EU021	DDGS Dryer	CE004, CE006 or CE007	Mutli cyclone (PM) TO or Equivalent (VOC, PM)
EU028	Boiler #1	NA	Low NO _x
EU029	Boiler #2	NA	Low NO _x
FS001	Ethanol Loading Rack	EU021, CE006 or CE007	Dryer, TO or Equivalent (VOC)
FS004	Truck Traffic	NA	Dust Control
FS005	Equipment Leaks (We will implement Subpart VV leak detection)	NA	LDAR (VOC)

2-1 August, 2002

3.0 ENGINEERING DESIGN CRITERIA FOR POLLUTION CONTROL EQUIPMENT

After identifying the affected units that require installation of air pollution control technology, CMEC proposes the following pollution control technology for the listed emission unit as identified in the consent decree.

3.1 Scenario #1 (New Technology)

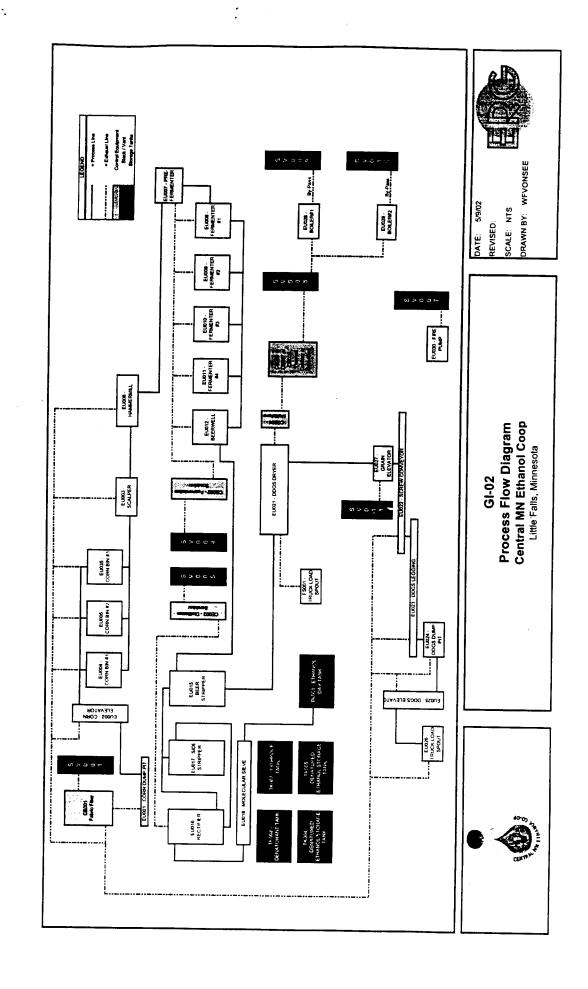
्रिकटार स्टब्स्स्स्राधाः	en più	Mondo Eureo Ereandad	omalyeskiemior
Fermentation	CE002	Wet Scrubber	Water flow rate > 24 gpm
Scrubber			Pressure Drop = 4 to 10 inches w.c.
Denatured Ethanol Truck Loadout	EU021 or CE006	Facility Dryer or Equivalent new technolgy	Flame Detection
DDGS Dryer (Scenario #1)	CE006	Thermal Oxidizer equivalent new technology (See Attachment 1)	TBD
Boiler #1	NA		Design Fuel Input Rate = 40 MMBtu/hr
			NO _x : 0.055 lb/MMRtu
Boiler #2	NA		Design Fuel Input Rate = 40 MMBtu/hr
			NO _x : 0.055 lb/MMBtu

3.2 Scenario #2 (Thermal Oxidizer)

Process Description	Control Device #	Control Device	Operating Farameter
DDGS Dryer (Scenario #2)	CE007	Thermal Oxidizer	Thermal Oxidizer Operating Temperature ≥ 1300 ° F
			Design Fuel Input Rate = 72 MMBtu/hr
			NO _x Design ≤ 0.04 lb/MMBtu

3-1 August, 2002





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4.0 PROPOSED EMISSION LIMITS FROM POLLUTION CONTROL EQUIPMENT

Unless otherwise stated, all controlled emission limitations apply at all times except during periods when the process equipment is not operating or during previously planned startup and shutdown periods, and malfunctions as defined in 40 CFR section 63.2. These startup and shutdown periods shall not exceed the minimum amount of time necessary for these events, and during these events, CMEC shall minimize emissions to the greatest extent practicable. To the extent practical, startup and shutdown of control technology systems will be performed during times when process equipment is also shut down for routine maintenance.

In addition to the limits listed below, all emission sources will comply with a 12-month rolling sum source wide SO2 cap of 95 TPY.

Any deviation from the requirements in 4.0 through 4.4 shall be reported in the quarterly reports and as required under other state and federal rules.

4.1 Interim Scenario

(Interim limits apply until installation of all control technology is complete)

Formal Page (Juloja)	Control Device		Folinain	Slevitor EmissionReis	Long erm Emission Rate
Fermentation Scrubber	CE002	Wet scrubber	voc	95% reduction or <20 ppm if inlet concentration is below 200 ppm; lb/hr limits to be established based on performance testing under the process outlined under Paragraph 24 of the Consent Decree.	12-month rolling sum source wide VOC emission cap of 95 TPY.
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.
Truck Loadout	EU021	Facility Dryer	voc	95% reduction or no emissions higher than 10 ppm outlet	12-month rolling sum source wide VOC cap of 95 TPY
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.

E WEIGH COMERCIAN	Control of the second	क्रमण्य पंजारहरू वेहदानमञ्जूष	रुणम	्डालर्राञ्चल इत्तर्धावनस्टार	জ্ঞান বিক্রান্থার বিক্র
DDGS Dryer			NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, and Boiler #2 combined NO _x cap of 22.2 TPY. (See Attachment 3)
			SO ₂		12-month rolling sum source wide SO₂ cap of 95 TPY.
			PM/PM ₁₀		12-month rolling sum source wide PM/PM ₁₀ cap of 95 TPY.
			VOC	Lb/hr limit to be established based on performance testing under the process outlined in Paragraph 24 of the Consent Decree (See proposal to minimize emissions due 60 days after initial performance test).	12-month rolling sum source wide VOC cap of 95 TPY.
			СО		12-month rolling sum source wide CO cap of 95 TPY.
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.
Boiler #1	EU028	Low NO _x Burners	NO _χ		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, and Boiler #2 combined NO _x cap of 22.2 TPY. (See Attachment 3)

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Boiler #2	EU029	Low NO _x Burners	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, and Boiler #2 combined NO _x cap of 22.2 TPY. (See Attachment 3)
NOx Unit Group Cap	EU021 EU028 EU029	Low NO _x Equivalent	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, and Boiler #2 combined NO _x cap of 22.2 TPY. (See Attachment 3)

4.2 Operating Scenario #1 (Gasification)

is a serione	Device	entid Educ Occident		Shortiani Emission Bar	Editor (Emission) Refer
DDGS Dryer (Scenario #1) + TO Alternative Technology	CE006	Thermal Oxidizer equivalent new technology (See Attachment 1)	NOx		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO Alternative Technology combined NO _x cap TBD.
			SO ₂		12-month rolling sum source wide SO ₂ cap of 95 TPY.

	2020	Grande Roser	Filling	Show This Paint that Etc.	ende landenedor Fig
			PM/PM ₁₀		12-month rolling sum source wide PM/PM ₁₀ cap of 95 TPY.
			voc	95% VOC destruction efficiency or no emissions higher than 10 ppm outlet concentration; lb/hr limits to be established based on performance testing under the process outlined under Paragraph 24 of the Consent Decree.	12-month rolling sum source wide VOC cap of 95 TPY.
			СО		12-month rolling sum source wide CO cap of 95 TPY.
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.
TO Alternative Technology	CE006	Pending BACT Analysis	NO _x	Test and set pursuant to process outlined under Paragraph 24 of the Consent Decree	12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO Alternative Technology combined NO _x cap TBD.
			SO₂	Test and set pursuant to process outlined under Paragraph 24 of the Consent Decree	12-month rolling sum source wide SO ₂ cap of 95 TPY.
			РМ	Test and set pursuant to process outlined under Paragraph 24 of the Consent Decree	12-month rolling sum source wide PM cap of 95 TPY.
			со	Test and set pursuant to process outlined under Paragraph 24 of the Consent Decree	12-month rolling sum source wide CO cap of 95 TPY.

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Truck Loadout	CE006	Equivalent new technology	voc	95% reduction or no emissions higher than 10 ppm outlet	12-month rolling sum source wide VOC cap of 95 TPY
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.
Fermentation Scrubber (If Applicable)	CE002	Wet scrubber	voc	95% reduction or <20 ppm if inlet concentration is below 200 ppm; lb/hr limits to be established based on performance testing under the process outlined under Paragraph 24 of the Consent Decree.	12-month rolling sum source wide VOC emission cap of 95 TPY.
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.
Boiler #1 (If Applicable)	EU028	Low NO _x Burners	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO Alternative Technology combined NO _x cap TBD.
Boiler #2 (If Applicable)	EU029	Low NO _x Burners	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO Alternative Technology combined NO _x cap TBD.
NOx Unit Group Cap (If Applicable)	EU021 EU028 EU029	Low NO _x Equivalent	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO Alternative Technology combined NO _x cap TBD.

4.3 Operating Scenario #2 (Thermal Oxidizer)

Breiniga 1900 (Hiller)	**************************************	Samme Inch.	sellegus	डाणडरम्ब्या स्टाट डाज्यसम्बद्धाः	esiterioniesită Săt
DDGS Dryer (Scenario #2)	CE007	Thermal Oxidizer Thermal oxidizer with low NO _x burners.	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO combined NO _x cap of 34.8 TPY. (See Attachment 3)
			SO ₂		12-month rolling sum source wide SO ₂ cap of 95 TPY.
			PM/PM ₁₀	Test and set pursuant to Paragraph 24 of the Consent Decree	12-month rolling sum source wide PM/PM ₁₀ cap of 95 TPY.
			VOC	95% VOC destruction efficiency or no emissions higher than 10 ppm outlet concentration; lb/hr limits to be established based on performance testing under the process outlined under Paragraph 24 of the Consent Decree.	12-month rolling sum source wide VOC cap of 95 TPY.

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			СО	90% reduction or no higher than 100 ppm.	12-month rolling sum source wide CO cap of 95 TPY.
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.
Truck Loadout	CE007	Thermal Oxidizer	VOC	95% reduction or no emissions higher than 10 ppm outlet	12-month rolling sum source wide VOC cap of 95 TPY
Boiler #1 (Scenario #2)	EU028	Low NO _x Burners	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO combined NO _x cap of 34.8 TPY. (See Attachment 3)
Boiler #2 •(Scenario #2)	EU029	Low NO _x Burners	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO combined NO _x cap of 34.8 TPY. (See Attachment 3)
NOx Unit Group Cap (Scenario #2)	EU021 EU028 EU029 CE007	Low NO _x Equivalent	NO _x		12-month rolling sum source wide NO _x cap of 95 TPY and 12-month rolling sum Dryer, Boiler #1, Boiler #2, and TO combined NO _x cap of 34.8 TPY. (See Attachment 3)

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Fermentation Scrubber	CE002	Wet scrubber	VOC	95% reduction or <20 ppm if inlet concentration is below 200 ppm; lb/hr limits to be established based on performance testing under the process outlined under Paragraph 24 of the Consent Decree.	12-month rolling sum source wide VOC emission cap of 95 TPY.
			HAPs		12-month rolling sum total facility emission cap of 9.0 TPY for any single HAP and 24.0 TPY for total HAPs.

For all source-wide emission limits during the first 11 months of operation, the facility will maintain the following source-wide limits in Tons Per Year:

	Mo 1	Mo 2	Mo 3	Mo 4	Mo 5	Mo 6	Mo 7	Mo 8	Mo 9	Mo 10	Mo 11
Source wide VOC, CO, NOx and PM/PM10	12	24	36	47	56	64	72	80	84	88	92
Individual HAP/	1.6/	3.2/	4.0/	4.8/	5.6/	6.4/	7.2/	8.0/	8.2/	8.5/	8.8/
Total HAPs	3.0	6.0	9.0	12	14	16	18	20	21	22	23
NOx for Dryer #1, Boilers #1 and #2 (Interim Limit)	3	6	9	11	13	15	16	17	18	19	20
NOx for Dryer #1, Boilers #1 and #2 and TO (Scenario #2)	4	8	12	16	20	24	27	30	31	32	33

Recordkeeping

Record fuel usage daily for each unit subject to the NO_x group emissions cap. Calculate the NO_x group emissions from the previous week and the NO_x Group emissions from the previous 51 weeks (52 week rolling sum). Calculate the total 52-week rolling sum for NO_x emissions from all units according to Equation 1:

$$\sum_{i=1}^{n} E_{n_i} = \sum_{i=1}^{x} \left[NG_{x_i} \left(\frac{MMBtu}{week} \right) \bullet EF_{x} \left(\frac{lb}{MMBtu} \right) \bullet 0.0005 \left(\frac{ton}{lb} \right) \right]$$
 Eqn 1

where:

x = number of units;

n = number of weeks of interest;

 $\sum_{i=1}^{n} E_{n_i} = \text{sum of weekly NO}_{x} \text{ emissions from unit x (tons/52 weeks)};$

 NGx_i = ith week natural gas usage of emission unit x (MMBtu/week); and

 EF_x = unit specific emission factor determined by stack testing.

4.4 Alternative Operating Scenarios

- Greater than or equal to 10 percent of wet cake throughput will be diverted from the DDGS dryer and will be sold. CMEC will keep daily records of wet cake and DDGS sales.
- Ethanol truck load out shall be vented to the control equipment at any time the control
 equipment is in operation. Ethanol truck load out shall be limited to 2 million gallons per year
 of uncontrolled operation.

5.0 POLLUTION CONTROL EQUIPMENT INSTALLATION SCHEDULE

Any deviations shall be reported in quarterly reports unless more frequent reporting is required by state or federal regulations.

TO or Alternative Technology Milestones

- Conduct performance test on feed dryer for VOC, CO, NO_x, PM/PM₁₀, and HAPs within 60 days from lodging the Consent Decree. Conduct pursuant to Section 7.0 of this CTP;
- Submit a dryer throughput proposal to minimize emissions to the MPCA for approval within 60 days of the initial feed dryer test. Upon approval the proposal shall become an enforceable par of this CTP;
- Submit thermal oxidizer design criteria and manufacturer information to the MPCA for approval by November 1, 2002 to become an enforceable part of this CTP if applicable;
- Complete pilot testing of alternative technology by December 1, 2002;
- Submit test results to MPCA by within 45 days of completing initial pilot testing:
- Complete additional pilot testing of alternative technology (if necessary) and submit the test results within 45 days of the testing;
- Submit a Letter of Intent (LOI) to MPCA within 60 days of the final pilot test but no later than January 31, 2003. LOI shall declare technology choice;
- Submit copies of all grant proposals to MPCA at the time of submittal; and
- Submit a detailed schedule for installation of alternative technology or thermal oxidizer to MPCA for approval within 30 days of the LOI date to become an enforceable part of this CTP. The final compliance date outlined in the schedule should not extend beyond December 31, 2004. CMEC shall achieve compliance with all applicable emissions limits at the facility by no later than this date.
 - o Schedule shall include, at a minimum, the following: Equipment order dates, installation dates, start-up dates, testing dates, testing protocol and, for alternative technology, grant proposal timelines and dates for BACT analysis submittal for NO_x, CO, SO₂, and PM/PM₁₀, if greater than significant levels, and a group NO_x limit calculated for Scenario #1.

6.0 PROPOSED MONITORING PARAMETERS FOR POLLUTION CONTROL DEVICES

The consent decree requires that monitoring parameters be established for affected pollution control devices. CMEC is proposing the following monitoring parameters for each of the affected pollution control devices. Any deviations of monitoring frequency, recordkeeping, and / or operating range shall be reported in quarterly reports unless more frequent reporting is required by state or federal regulations.

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CE002	Fermentation	Water Flow Rate	> 24 gpm	Continuously and recorded once Daily when operating
	Scrubber	Pressure Drop	4 to 10 inches of water column	Continuously and recorded once Daily when operating
CE006 (Scenario #1)	Thermal Oxidizer equivalent new gasification technology	TBD	TBD	TBD
CE007 (Scenario #2)	Thermal Oxidizer	Temperature	> 1300 ° F	Continuous
		Syrup Feed	TBD	24-hour average
EU021	Facility Dryer	Beer Feed	TBD	24-hour average
		Flame detection		Continuous
FS005	Leak Detection	As stated in 40 CFR Subpart VV	As stated in 40 CFR Subpart VV	As stated in 40 CFR Subpart VV
NO _x Group				
EU021	DDGS Dryer			Weekly monitor
EU028	Boiler #1		,	and record fuel
EU029	Boiler #2	Fuel Usage		usage and type for each unit, calculate
or CE007	TO (only if Scenario #2 is chosen)	Tuel Usage		NOx emissions weekly based on latest stack test data

7.0 POLLUTION CONTROL DEVICE TEST SCHEDULE & METHODS

The following schedule and methods will be used to demonstrate initial compliance with the emission limits contained in Section 4.0 of this Control Technology Plan. CMEC shall conduct the following performance testing pursuant to the Consent Decree schedule.

PERMIT.	in eriu	भागितातः द्वारा धारमधिकाः	Politing.	Special Handleuria
DDGS Dryer	EU021/	New technology	CO Inlet	Method 1, 2, 3B, 4, and 10
(Scenario #1)	FS001/	(If applicable)	And Outlet	
+	CE006/		NO _x	Method 1, 2, 3B, 4, and 7E
то	SV008	Add CO, PM,	PM/PM ₁₀ Inlet	Method 1, 2, 3B, 4, 5 and 202
Alternative		NO _x , SO ₂	And Outlet	
Technology		required by the BACT analyses	VOC Inlet	Method 1, 2, 3B, 4, 25 (unless the outlet concentration is < 50 ppm, then 25A will be used)
			VOC Outlet, Speciated VOCs/HAPs	Method 1, 2, 3B, 4, Method 18 NCASI CI/WP-98.01 and 25 (unless the outlet concentration is < 50 ppm, then 25A will be used)
			SO ₂	Method 6C
Fermentation Scrubber	CE002/ SV004	Wet scrubber for VOC control	VOC Inlet and Outlet	Method 1, 2, 3 or 3A, 4, Method 18 NCASI CI/WP- 98.01 and VOC test method as approved by the parties in the Performance Test Plan Protocol.
Boiler #1	EU028/	Boiler	NO _x	Method 1, 2, 3B, 4, and 7E
	SV009		CO	Method 10
Boiler #2	EU029/	Boiler	NO _x	Method 1, 2, 3B, 4, and 7E
	SV010		со	Method 10

7-1 August, 2002

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DDGS Dryer	EU021/	ТО	CO Inlet	Method 1, 2, 3B, 4, and 10
(Scenario #2)	CE007/	(if applicable)	And Outlet	
	SV008		NO _x	Method 1, 2, 3B, 4, and 7E
			PM/PM ₁₀ Inlet And Outlet	Method 1, 2, 3B, 4, 5 and 202
	·		VOC Inlet	Method 1, 2, 3B, 4, 25 (unless the outlet concentration is < 50 ppm, then 25A will be used)
			VOC Outlet, Speciated VOCs/HAPs	Method 1, 2, 3B, 4, Method 18 NCASI CI/WP-98.01 and 25 (unless the outlet concentration is < 50 ppm, then 25A will be used)

8.0 FUGITIVE DUST EMISSION CONTROL PROGRAM

The objectives of the Fugitive Control Program are to prevent and minimize the release of avoidable fugitive emissions as required by the consent decree. The Program describes the procedures CMEC will use to control emissions, to determine when emissions are at levels requiring corrective action, and to reduce excessive emissions to acceptable levels.

CMEC has unpaved existing roads See Attachment 2).

CMEC will implement the following actions to minimize fugitive dust emissions

- CMEC will perform weekly visual inspections of the roadway surface for wear, frost boils, etc. and will observe truck traffic for signs of visible emissions. Document the inspection was preformed and describe any corrective actions taken.
- CMEC will apply a suitable dust suppressant (calcium chloride or equivalent) annually and as needed per periodic observations. The application of the dust suppressant may be spot specific or for the entire facility.

Any deviations shall be reported in quarterly reports unless more frequent reporting is required by state or federal regulations.

8-1

Attachment 1

SEBESTA BLOMBERG Providing Technical & Business Solutions



July 29, 2002

Sebesta Blombery & Associates, Inc. Kerry J. Nixon

2381 Roscoone General Manager

Roseville, Minnesuto 55113 Central Minnesota Ethanol Cooperative MICHL. 651 834-0/75 17936 Heron Road

1AX: 651 634.7400 Little Falls, MN 56345

Dear Kerry:

Thank you for your hospitality on our recent visit. I enjoyed very much meeting you and your staff.

As we discussed, Sebesta Blomberg and Associates has taken a two-track approach to meeting the current and future needs of ethanol plants by developing the technology and engineering data to support two key technologies for VOC reduction.

ENGINE E PINC

FACILITY SERVICES CONSTRUCTION

Firstly, with regard to distillers dried grains and syrup solids (DDGS) Sebesta Blomberg and Associates completed a demonstration drying trial last week in which the dryer type and the drying conditions were set to minimize the VOC emissions. Stack testing was conducted by PACE analytical and we expect to see the first of the data later this week. We are confident we will see a substantial reduction in the VOC emissions from the dryer because we can detect a dramatic increase in the acetic and lactic acid residual in the product. During our testing the combined acid content has been about 5% in the product dried in our tests compared with same material dried in the conventional manner that contains only about 1.5% combined acids.

Recognizing that odor control is an important issue our drying tests were also attended by St. Croix Sensory testing service. In addition to our qualitative assessment that the emissions are non-irritating we are looking for a more detailed assessment of the emissions.

As a further step, we discussed with you our proposal to gasify the DDGS and use the synthesis gas formed as fuel for the boilers. Test material for this gasification has been prepared during the drying trial above and we are preparing to ship the test material to Tulsa, Oklahoma for a gasification trial to be conducted late in August. This trial will also test the conditions for gasification of corn stover as a fuel for the ethanol plant.

OFFICES WORLDWIDE www.scbcsta.com

The gasification process will operate at conditions sufficient to destroy the VOC emissions from the dryer and we anticipate nearly complete destruction. As you know, biomass contains bound sulfur and nitrogen that will form NOx and SOx emissions. The purpose of the testing is to determine what additional controls will be needed to comply with limitations on NOx and SOx emissions. I spoke with the equipment manufacturer today and they have indicated to me that we can meet any likely standard but that in attainment areas, additional pollution control devices have not been needed. We are uncertain what stance the MPCA will take on the BACT for biomass gasification.

All of the proposed solutions to ethanol plant emissions problems are available at commercial scale today and have proven track records of mechanical reliability. The following major milestones should provide guidance on implementation of these technologies in your plant. Since this is being done under the consent decree mechanism, I have assumed permitting will not be the limiting step.

1. Dryer testing - completed

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- 2. Dryer stack analysis and report September 1, 2002
- 3. Gasification testing completed by August 31, 2002
- 4. Data analysis and presentation completed by October 30, 2002
- 5. Formal proposal for dryer and/or gasification plant November, 2002
- 6. Construction commence in spring of 2003
- 7. Completion and start up- first quarter 2004

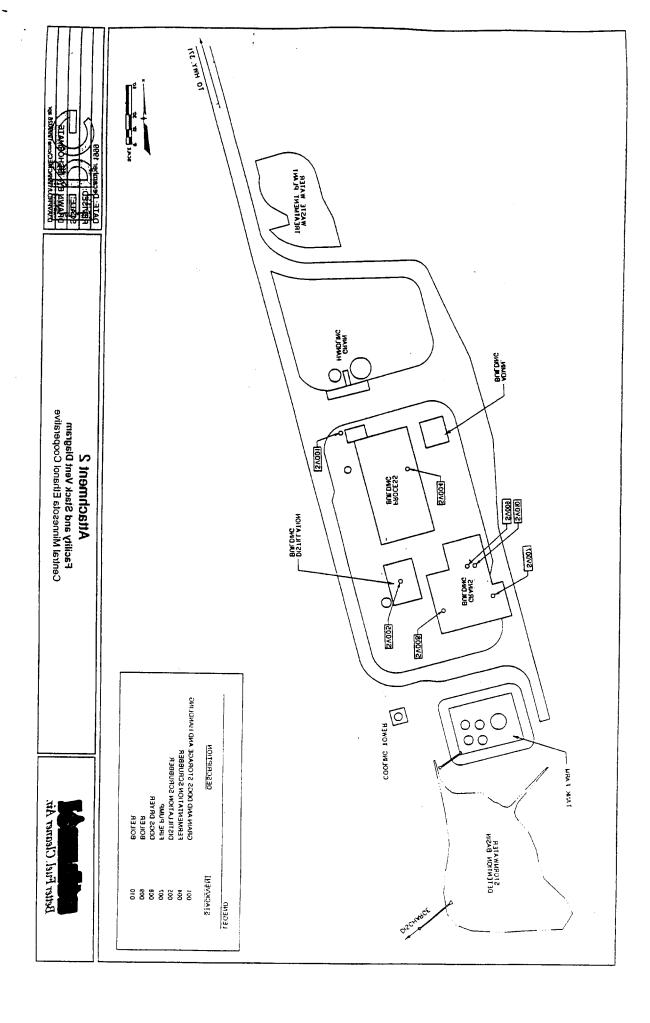
We are preparing budgetary figures for your consideration and I expect to have that to you in the next few days.

Please feel free to contact me with any additional questions or concerns.

Cecil T. Massie P.E.

CC: Todd Potas /ERG

Attachment 2



Attachment 3

CMEC Emission Calculations for Dryers, Boller and TO NOx Limit

Interim Limit

All units bunatural gas Assume 01 and 8260 h	All units burning only pipeline quality natural gas for 344 days per year Assume 0 04 bs:/MMBtu average emission factor and 8260 hours of operation per year Source Capacity (MMBtu/hr)	Boilers an Assume 0 Source	Boilers and dryer burning propane for 500 hours per year. Assume 0.08 lbs/MMBtu for propane fired units Source Capacity (MMBtu/hr)
Boiler #1	40	Boiler #1	40
Boiler #2	40	Boiler #2	40
Dryer	40	Dryer	40
Total	120	Total	120
0.04 lbs/MR	0.04 lbs/MMBtu X 120 MMBtwhr =	0.08 lbs/M	0.08 lbs/MMBtu X 120 MMBtu/hr =
×OX	lbs/hr TPY Natural gas 9.6 2.4 Propane		

Scenario #1 TBD assuming 0 04 lbs/MMBtu average emission factor and 8760 hours of operation per year.

Scenario #2

All units bu.	All units burning only pipeline quality		Boilers ar	Boilers and dryer burning propane for 500 hours per year, all other
natural gas	natural gas for 344 days per year		units burr	units burning pipeline quality natural gas
Assume 0.0	Assume 0.04 lbs/MMBtu average emission factor	ission factor	Assume (Assume 0.08 lbs/MMBtu for propane fired units and
and 8260 h	and 8260 hours of operation per year.		0.04 lbs//	0.04 lbs/MMBtu for natural gas and 500 hours of operation per year.
Source	Source Capacity (MMBtu/hr)		Source	Source Capacity (MMBtu/hr)
Boiler #1	40		Boiler #1	40
Boiler #2	40		Boiler #2	40
2	72		5	72
Dryer	40		Dryer	40
Total	192		Total	192
0.04 lbs/MN	0 04 lbs/MMBtu X 192 MMBtu/hr =		0.08 lbs/A	0.08 lbs/AMBtu X 120 MMBtu/hr =
	lbs/hr TPY		U.U4 IDS/N	U.U4 ids/mimbiu X /2 mimbiu/hr =
NOX	L	Natural gas		
	12 48 3.1	Propane		