

AIR EMISSION PERMIT NO. 13900114 - 002

Major Amendment

IS ISSUED TO

KODA ENERGY LLC

800 West 1st Avenue
Shakopee, Scott County, MN 55379

The emission units, control equipment and emission stacks at the stationary source authorized in this permit amendment are as described in the Permit Applications Table.

This permit amendment supersedes Air Emission Permit No. 13900114-001 and authorizes the Permittee to operate and modify the stationary source at the address listed above unless otherwise noted in Table A. The Permittee must comply with all the conditions of the permit. Any changes or modifications to the stationary source must be performed in compliance with Minn. R. 7007.1150 to 7007.1500. Terms used in the permit are as defined in the state air pollution control rules unless the term is explicitly defined in the permit.

Unless otherwise indicated, all the Minnesota rules cited as the origin of the permit terms are incorporated into the SIP under 40 CFR § 52.1220 and as such as are enforceable by U.S. Environmental Protection Agency (EPA) Administrator or citizens under the Clean Air Act.

Permit Type: Federal; Pt 70/NSR Authorization

Operating Permit Issue Date: August 23, 2007

Major Amendment Issue Date: December 10, 2008

Expiration Date: August 23, 2012

– Title I Conditions do not expire.

Don Smith, P.E., Manager
Air Quality Permits Section
Industrial Division

For Commissioner
Minnesota Pollution Control Agency

Permit Applications Table

Permit Type	Issuance Date	Permit Action
Total Facility Operating Permit	August 23, 2007	001
Major Amendment	See above	002

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NOTICE TO THE PERMITTEE:

Your stationary source may be subject to the requirements of the Minnesota Pollution Control Agency's (MPCA) solid waste, hazardous waste, and water quality programs. If you wish to obtain information on these programs, including information on obtaining any required permits, please contact the MPCA general information number at:

Metro Area	651-296-6300
Outside Metro Area	1-800-657-3864
TTY	651-282-5332

The rules governing these programs are contained in Minn. R. chs. 7000-7105. Written questions may be sent to: Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

Questions about this air emission permit or about air quality requirements can also be directed to the telephone numbers and address listed above.

PERMIT SHIELD:

Subject to the limitations in Minn. R. 7007.1800, compliance with the conditions of this permit shall be deemed compliance with the specific provision of the applicable requirement identified in the permit as the basis of each condition. Subject to the limitations of Minn. R. 7007.1800 and 7017.0100, subp. 2, notwithstanding the conditions of this permit specifying compliance practices for applicable requirements, any person (including the Permittee) may also use other credible evidence to establish compliance or noncompliance with applicable requirements.

FACILITY DESCRIPTION:

Koda Energy will build a 308.18 MMbtu/hr combined heat and power biomass boiler to produce on average, 120,000 lbs/hour of steam for process heat at Rahr Malting and 17.8 MW of electricity. This is combination of steam and electricity represents the total energy output. For example, the facility could produce more than 120,000 lbs/hr of steam, but then would concurrently produce less than 17.8 MW of electricity. The Permittee will control boiler nitrogen oxides (NO_x) with a low NO_x burner, Secondary Over-Fire Air (SOFA), and a Selective Non-Catalytic Reduction System (SNCR). Particulate Matter Emissions will be controlled by a cyclone and electrostatic precipitator. Good combustion practices will control carbon monoxide.

AMENDMENT DESCRIPTION (002):

This permit incorporates the “as built” changes, from the facility construction, and the revised modeling reflecting these changes. There are some minor differences in the location, the stack heights, and the number of particulate matter less than 10 um in size emission sources, that resulted in changes between the preliminary and final facility design. For example, SV 002, 003 and 004 were not built. Because modeling parameters are addressed as a Title I permit condition, a Minnesota major amendment was required. The new modeling parameters are incorporated into the permit appendix. GP 003 was added to include the fuel bin filter vents.

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-1**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Table A contains limits and other requirements with which your facility must comply. The limits are located in the first column of the table (What To do). The limits can be emission limits or operational limits. This column also contains the actions that you must take and the records you must keep to show that you are complying with the limits. The second column of Table A (Why to do it) lists the regulatory basis for these limits. Appendices included as conditions of your permit are listed in Table A under total facility requirements.

Subject Item: Total Facility

What to do	Why to do it
DETERMINING IF A PROJECT/MODIFICATION IS SUBJECT TO NEW SOURCE REVIEW	hdr
<p>These requirements apply where there is a reasonable possibility that a proposed project, analyzed using the actual-to-projected-actual (ATPA) test (either by itself or as part of the hybrid test described in Section 52.21(a)(2)(iv)(f)) and found to not be part of a major modification, may result in a significant emissions increase. If the ATPA test is not used for a particular project, or if there is not a reasonable possibility that the proposed project could result in a significant emissions increase, then these requirements do not apply to that project.</p> <p>Even though a particular modification is not subject to New Source Review, a permit amendment, recordkeeping, or notification may still be required under Minn. R. 7007.1150 - 7007.1500.</p>	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 2
<p>Preconstruction Documentation -- Before beginning actual construction on a project, the Permittee shall document the following information:</p> <ol style="list-style-type: none"> 1. A description of the project 2. Identification of the emission unit(s) whose emissions of an NSR pollutant could be affected 3. The potential emissions of any existing or new emission units affected by the project. 4. A description of the applicability test used to determine that the project is not a major modification for any regulated NSR pollutant, including the baseline actual emissions, the projected actual emissions, the amount of emissions excluded due to increases not associated with the modification and that the unit(s) could have accommodated during the baseline period, an explanation of why the amounts were excluded, and any creditable contemporaneous increases and decreases that were considered in the determination. <p>The Permittee shall maintain records of this documentation.</p>	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
The Permittee shall monitor the actual emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using the ATPA test, and the potential emissions of any regulated NSR pollutant that could increase as a result of the project and that were analyzed using potential emissions in the hybrid test. The Permittee shall calculate and maintain a record of the sum of the actual and potential (if the hybrid test was used in the analysis) emissions of the regulated pollutant, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity of or potential to emit of any unit associated with the project.	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
<p>The Permittee must submit a report to the Agency if the annual summed (actual, plus potential if used in hybrid test) emissions differ from the preconstruction projection and exceed the baseline actual emissions by a significant amount as listed at 40 CFR Section 52.21(b)(23). Such report shall be submitted to the Agency within 60 days after the end of the year in which the exceedances occur. The report shall contain:</p> <ol style="list-style-type: none"> a. The name and ID number of the facility, and the name and telephone number of the facility contact person b. The annual emissions (actual, plus potential if any part of the project was analyzed using the hybrid test) for each pollutant for which the preconstruction projection and significant emissions increase are exceeded. c. Any other information, such as an explanation as to why the summed emissions differ from the preconstruction projection. 	Title I Condition: 40 CFR Section 52.21(r)(6); Minn. R. 7007.3000; Minn. R. 7007.0800, subps. 4 & 5
OPERATIONAL LIMITS	hdr
Circumvention: Do not install or use a device or means that conceals or dilutes emissions, which would otherwise violate a federal or state air pollution control rule, without reducing the total amount of pollutant emitted.	Minn. R. 7011.0020
Air Pollution Control Equipment: Operate all pollution control equipment whenever the corresponding process equipment and emission units are operated, unless otherwise noted in Table A.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-2**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Operation and Maintenance Plan: Retain at the stationary source an operation and maintenance plan for all air pollution control equipment. At a minimum, the O & M plan shall identify all air pollution control equipment and control practices and shall include a preventative maintenance program for the equipment and practices, a description of (the minimum but not necessarily the only) corrective actions to be taken to restore the equipment and practices to proper operation to meet applicable permit conditions, a description of the employee training program for proper operation and maintenance of the control equipment and practices, and the records kept to demonstrate plan implementation.	Minn. R. 7007.0800, subp. 2; Minn. R. 7007.0800, subp. 16(J)
Operation Changes: In any shutdown, breakdown, or deviation the Permittee shall immediately take all practical steps to modify operations to reduce the emission of any regulated air pollutant. The Commissioner may require feasible and practical modifications in the operation to reduce emissions of air pollutants. No emissions units that have an unreasonable shutdown or breakdown frequency of process or control equipment shall be permitted to operate.	Minn. R. 7019.1000, subp. 4
Fugitive Emissions: Do not cause or permit the handling, use, transporting, or storage of any material in a manner which may allow avoidable amounts of particulate matter to become airborne. Comply with all other requirements listed in Minn. R. 7011.0150.	Minn. R. 7011.0150
Noise: The Permittee shall comply with the noise standards set forth in Minn. R. 7030.0010 to 7030.0080 at all times during the operation of any emission units. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7030.0010 - 7030.0080
Inspections: The Permittee shall comply with the inspection procedures and requirements as found in Minn. R. 7007.0800, subp. 9(A).	Minn. R. 7007.0800, subp. 9(A)
The Permittee shall comply with the General Conditions listed in Minn. R. 7007.0800, subp. 16.	Minn. R. 7007.0800, subp. 16
Permit Appendices: This permit contains appendices as listed in the permit Table of Contents. The Permittee shall comply with all requirements contained in the appendices.	Minn. R. 7007.0800, subp. 2
TESTING REQUIREMENTS	hdr
Performance Testing: Conduct all performance tests in accordance with Minn. R. ch. 7017 unless otherwise noted in Tables A, B, and/or C.	Minn. R. Ch. 7017
Performance Test Notifications and Submittals: Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements. Performance Test Notification (written): due 30 days before each Performance Test Performance Test Plan: due 30 days before each Performance Test Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.	Minn. R. 7017.2030, subp. 1-4, 7017.2018 and Minn. R. 7017.2035, subp. 1-2
Limits set as a result of a performance test (conducted before or after permit issuance) apply until superseded as stated in the MPCA's Notice of Compliance letter granting preliminary approval. Preliminary approval is based on formal review of a subsequent performance test on the same unit as specified by Minn. R. 7017.2025, subp. 3. The limit is final upon issuance of a permit amendment incorporating the change.	Minn. R. 7017.2025
MONITORING REQUIREMENTS	hdr
Monitoring Equipment: Install or make needed repairs to monitoring equipment within 60 days of issuance of the permit if monitoring equipment is not installed and operational on the date the permit is issued.	Minn. R. 7007.0800, subp. 4(D)
Monitoring Equipment Calibration: Annually calibrate all required monitoring equipment (any requirements applying to continuous emission monitors are listed separately in this permit).	Minn. R. 7007.0800, subp. 4(D)
Operation of Monitoring Equipment: Unless otherwise noted in Tables A, B, and/or C, monitoring a process or control equipment connected to that process is not necessary during periods when the process is shutdown, or during checks of the monitoring systems, such as calibration checks and zero and span adjustments. If monitoring records are required, they should reflect any such periods of process shutdown or checks of the monitoring system.	Minn. R. 7007.0800, subp. 4(D)
RECORDKEEPING	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-3**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

The Permittee shall maintain records adequate to document compliance at the stationary source, including at a minimum: (1) the date, place, and time of sampling or measurement; (2) the date or dates the analyses were performed; (3) the company or entity that performed the analyses; (4) the analytical techniques or methods used; (5) the results of such analyses; and, (6) the operating conditions existing at the time of sampling or measurement.	Minn. R. 7007.0800, subp. 5(A)
Recordkeeping: Retain all records at the stationary source for a period of five (5) years from the date of monitoring, sample, measurement, or report. Records which must be retained at this location include all calibration and maintenance records, all original recordings for continuous monitoring instrumentation, and copies of all reports required by the permit. Records must conform to the requirements listed in Minn. R. 7007.0800, subp. 5(A).	Minn. R. 7007.0800, subp. 5(C)
Recordkeeping: Maintain records describing any insignificant modifications (as required by Minn. R. 7007.1250, subp. 3) or changes contravening permit terms (as required by Minn. R. 7007.1350, subp. 2), including records of the emissions resulting from those changes.	Minn. R. 7007.0800, subp. 5(B)
REPORTING/SUBMITTALS	hdr
Shutdown Notifications: Notify the Commissioner at least 24 hours in advance of a planned shutdown of any control equipment or process equipment if the shutdown would cause any increase in the emissions of any regulated air pollutant. If the owner or operator does not have advance knowledge of the shutdown, notification shall be made to the Commissioner as soon as possible after the shutdown. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 3. At the time of notification, the owner or operator shall inform the Commissioner of the cause of the shutdown and the estimated duration. The owner or operator shall notify the Commissioner when the shutdown is over.	Minn. R. 7019.1000, subp. 3
Breakdown Notifications: Notify the Commissioner within 24 hours of a breakdown of more than one hour duration of any control equipment or process equipment if the breakdown causes any increase in the emissions of any regulated air pollutant. The 24-hour time period starts when the breakdown was discovered or reasonably should have been discovered by the owner or operator. However, notification is not required in the circumstances outlined in Items A, B and C of Minn. R. 7019.1000, subp. 2. At the time of notification or as soon as possible thereafter, the owner or operator shall inform the Commissioner of the cause of the breakdown and the estimated duration. The owner or operator shall notify the Commissioner when the breakdown is over.	Minn. R. 7019.1000, subp. 2
Notification of Deviations Endangering Human Health or the Environment: As soon as possible after discovery, notify the Commissioner or the state duty officer, either orally or by facsimile, of any deviation from permit conditions which could endanger human health or the environment.	Minn. R. 7019.1000, subp. 1
Notification of Deviations Endangering Human Health or the Environment Report: Within 2 working days of discovery, notify the Commissioner in writing of any deviation from permit conditions which could endanger human health or the environment. Include the following information in this written description: 1. the cause of the deviation; 2. the exact dates of the period of the deviation, if the deviation has been corrected; 3. whether or not the deviation has been corrected; 4. the anticipated time by which the deviation is expected to be corrected, if not yet corrected; and 5. steps taken or planned to reduce, eliminate, and prevent reoccurrence of the deviation.	Minn. R. 7019.1000, subp. 1
Application for Permit Amendment: If a permit amendment is needed, submit an application in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500. Submittal dates vary, depending on the type of amendment needed.	Minn. R. 7007.1150 through Minn. R. 7007.1500
Extension Requests: The Permittee may apply for an Administrative Amendment to extend a deadline in a permit by no more than 120 days, provided the proposed deadline extension meets the requirements of Minn. R. 7007.1400, subp. 1(H).	Minn. R. 7007.1400, subp. 1(H)
Emission Fees: due 60 days after receipt of an MPCA bill	Minn. R. 7002.0005 through Minn. R. 7002.0095
AMBIENT STANDARDS	hdr
Ambient Air Quality Standards: The Permittee shall comply with National Primary and Secondary Ambient Air Quality Standards, 40 CFR pt. 50, and the Minnesota Ambient Air Quality Standards, Minn. R. 7009.0010 to 7009.0080. Compliance shall be demonstrated upon written request by the MPCA.	40 CFR pt. 50; Minn. Stat. Section 116.07, subds. 4a & 9; Minn. R. 7007.0100, subps. 7A, 7L & 7M; Minn. R. 7007.0800, subps. 1, 2 & 4; Minn. R. 7009.0010-7009.0080.

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-4**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Parameters Used in Modeling: The stack heights, emission rates, and other parameters used in the dispersion modeling are listed in the Appendix of this permit. The Permittee must submit to the Commissioner for approval any revisions of these parameters and must wait for a written approval before making such changes. The information submitted must include, at a minimum, the locations, heights, and diameters of the stacks, locations, and dimensions of nearby buildings, the velocity and temperatures of the gases emitted, and the emission rates. The plume dispersion characteristics due to the revisions of the information must be equivalent to or better than the dispersion characteristics modeled. The Permittee shall demonstrate this equivalency in the proposal. If the information does not demonstrate equivalent or better characteristics, or if a conclusion cannot readily be made about the dispersion, the Permittee must remodel.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
For changes that do not involve an increase in an emission rate and that do not require a permit amendment, this proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the stack or associated emission unit. For changes involving increases in emission rates and that require a minor permit amendment, the proposal must be submitted as soon as practicable, but no less than 60 days before beginning actual construction of the stack or associated emission unit. For changes involving increases in emission rates and that require a permit amendment other than a minor amendment, the proposal must be submitted with the permit application.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
CHARACTERIZING SOLID WASTE FOR BENEFICIAL USE	hdr
Scope: This part sets out the procedures for characterizing of a solid waste. The agency shall use the results from characterization of a solid waste when evaluating demonstration projects and beneficial use proposals.	Minn. R. 7035.2861, subp. 1
Characterization Procedures: Unless otherwise directed by the agency, a person seeking to characterize a solid waste must follow the steps in items A and B. A. A list of potential chemical constituents present in the solid waste must be developed by evaluation of the pertinent information. B. The solid waste must be analyzed in accordance with the methods, provided in Minn. R. 7035.2861, subpart 3, to provide the following information on its chemical and physical properties: (1) potential chemical constituents identified in item A; and, (2) physical properties that affect the use or management of the solid waste.	Minn. R. 7035.2861, subp. 2
Method of Analysis: The analysis methods used for characterization must be consistent with the beneficial use being proposed. In most cases, total compositional analysis is needed. Depending on how the solid waste will be managed prior to its beneficial use, leaching procedures may also be required. Approved methods of analysis are found in Tests Methods for Evaluating Solid Waste, Physical/Chemical Methods, and EPA Publication SW-846. Equivalent analytical methods may be allowed with Commissioner approval.	Minn. R. 7035.2861, subp. 3

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-5**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: GP 001 Biomass Fuel Fabric Filters**Associated Items:** CE 001 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 002 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 003 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 004 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 005 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 006 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

CE 007 Fabric Filter - Low Temperature, i.e., T<180 Degrees F

SV 001 Truck unloading building dust control

SV 005 Bag filter - grinder #1 & 2 blow lines

SV 006 Bag filter - grinder #3 & 4 bow lines

SV 007 Day/metering bin baghouse

What to do	Why to do it
The following requirements apply to each of the individual stacks (SV 001 - SV 007) separately, except for the performance testing requirements.	hdr
Particulate Matter < 10 micron: less than or equal to 0.0050 grains/dry standard cubic foot	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Total Particulate Matter: less than or equal to 0.0050 grains/dry standard cubic foot (This satisfies Minn. R. 7011.0715.)	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000; Minn. R. 7011.0715
Opacity: less than or equal to 5 percent for SV 001 of fugitive emissions during truck unloading of grain or grain-by products. Otherwise, the opacity shall be less than or equal to 20 percent while unloading non-grain materials.	Minn. R. 7011.1005, subp. 3; Minn. R. 7011.0715
Opacity: less than or equal to 10 percent from SV 002 through SV 007 while grain or grain by-products are being handled, cleaned, dried, stored, ground, or loaded. When the other non-grain biomass materials are being handled, cleaned, dried, stored, ground, or loaded, opacity shall be less than or equal to 20 percent.	Minn. R. 7011.1005, subp. 3; Minn. R. 7011.0715
Total Particulate Matter: greater than or equal to 99.0 percent control efficiency	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Particulate Matter < 10 micron: greater than or equal to 99.0 percent control efficiency	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Pressure Drop: The Permittee shall maintain the pressure drop across the fabric filter within the range of operation recommended by the manufacturer, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3 based on the values recorded during the most recent MPCA-approved performance test where compliance was demonstrated. The new range shall be implemented upon receipt of the Notice of Compliance letter granting preliminary approval. The range is final upon issuance of a major permit amendment incorporating the change. The Permittee shall record the pressure drop at least once every 24 hours when in operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Within 180 days of startup, the pressure drop range for each baghouse shall be submitted, along with an application for a major amendment. The manufacturer's information must be submitted with the application.	
Visible Emissions: The Permittee shall check the fabric filter stack (SV 001- SV 007) for any visible emissions once each day of operation during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit	Title I Condition: Recordkeeping for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Minn. R. 7007.0800, subp. 14

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-6**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5, and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Initial Performance Test: due 90 days after Initial Startup to measure (PM, PM10, and opacity). The three stack/vents with the highest grain loading per dry standard cubic foot of air flow (as based on AP-42 calculations) shall be selected for the testing. The Permittee shall include justification for the selection of the three stack/vents in the test plan.	Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-7**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: GP 002 NOx, CO, & O2 Monitors**Associated Items:** MR 002 NOx CEM

MR 003 CO CEM

MR 004 O2 CEM

What to do	Why to do it
CEMS Installation: Install and operate NOx, CO, and O2 CEMS.	Minn. R. 7017.1006
CEMS Monitor Design: Each CEMS shall be designed to complete a minimum of one cycle of sampling, analyzing, and data recording in each 15-minute period.	Minn. R. 7017.1140
Installation Notification: due 60 days before installing the continuous emissions monitoring system. The notification shall include plans and drawings of the system.	Minn. R. 7017.1040, subp. 1
Certification time frame. The owner or operator must conduct and complete certification testing within 90 days after the due date of the first excess emissions report required for the CEMS or COMS. This subpart does not require a recertification test of a previously certified continuous monitoring system, unless the monitor has undergone a change which invalidates its certification.	Minn. R. 7017.1050, subp. 1
CEM Certification Test Pretest Meeting: due 7 days before CEM Certification Test	Minn. R. 7017.1060, subp. 3
Continuous Operation: CEMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A CEMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment.	Minn. R. 7017.1090, subp. 1
Relative Accuracy Test Audit (RATA) Notification: due 30 days before NOx, CO, and O2 CEMS Relative Accuracy Test Audit (RATA).	Minn. R. 7017.1180, subp. 2
Relative Accuracy Test Audit (RATA) Plan: due 30 days before NOx, CO, and O2 CEMS Relative Accuracy Test Audit (RATA).	Minn. R. 7017.1180, subp. 3
QA Plan: Develop and implement a written quality assurance plan that covers each CEMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain all of the information required by 40 CFR pt. 60, Appendix F, Section 3.	Minn. R. 7017.1170, subp. 2; 40 CFR pt. 60, App. F; section 3
CEMS Daily Calibration Drift Check: Permittees must automatically check the zero (low level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily. The zero and span must, at a minimum, be adjusted whenever the drift exceeds two times the limit specified in 40 CFR pt. 60, Appendix B. 40 CFR pt. 60, Appendix F shall be used to determine out-of-control periods for CEMS.	Minn. R. 7017.1170, subp. 3
CEMS Cylinder Gas Audit (CGA): due before end of each calendar half-year following CEM Certification Test for MR002 (NOx). The first CGA is due within 180 days of the CEMS certification. A CGA is not required during any calendar half-year in which a RATA was performed. A CGA shall be conducted according to the procedures in Code of Federal Regulations, title 40, part 60, appendix F, section 5.1.2.	Minn. R. 7017.1170, subp. 4
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test for MR 002 (NOx). RATA: due before the end of each year following the CEM Certification Test for MR 002 (NOx). The first RATA is due within 365 days of the CEMS Certification Test. A RATA is not required in any calendar year if a RATA conducted in the previous year, for that CEMS, demonstrated a relative accuracy value of less than 15 percent. If a RATA is not conducted in any calendar year, the next RATA shall be conducted during the first half of the following calendar year. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 5
Cylinder Gas Audit: due before end of each calendar half-year following CEM Certification Test for MR 003 (CO). The first CGA is due within 180 days of the CEMS certification. A CGA is not required during any calendar half-year in which a RATA was performed. A CGA shall be conducted according to the procedures in Code of Federal Regulations, title 40, part 60, appendix F, section 5.1.2.	40 CFR pt. 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test for MR 003 (CO). RATA: due before the end of each year following the CEM Certification Test for MR 003 (CO). The first RATA is due within 365 days of the CEMS Certification Test. A RATA is not required in any calendar year if a RATA conducted in the previous year, for that CEMS, demonstrated a relative accuracy value of less than 15 percent. If a RATA is not conducted in any calendar year, the next RATA shall be conducted during the first half of the following calendar year. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-8**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Cylinder Gas Audit: due before end of each calendar quarter following CEM Certification Test for MR 004 (O2). The first CGA is due within 180 days of the CEMS certification. A CGA is not required during any calendar half-year in which a RATA was performed. A CGA shall be conducted according to the procedures in Code of Federal Regulations, title 40, part 60, appendix F, section 5.1.2.	40 CFR pt. 60, Appendix F, section 5.1.2; Minn. R. 7017.1170, subp. 4
CEMS Relative Accuracy Test Audit (RATA): due before end of each year following CEM Certification Test for MR 004 (O2). RATA: due before the end of each year following the CEM Certification Test for MR 004 (O2). The first RATA is due within 365 days of the CEMS Certification Test. A RATA is not required in any calendar year if a RATA conducted in the previous year, for that CEMS, demonstrated a relative accuracy value of less than 15 percent. If a RATA is not conducted in any calendar year, the next RATA shall be conducted during the first half of the following calendar year. Follow the procedures in 40 CFR pt. 60, Appendix F.	Minn. R. 7017.1170, subp. 5
Monitoring Data: Reduce all data to 1-hour averages, in accordance with Minn. R. 7017.1160. 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period.	Minn. R. 7017.1160
Recordkeeping: The owner or operator must retain records of all CEMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Koda Energy LLC
Permit Number: 13900114 - 002

Subject Item: GP 003 Fuel Bin Filter Vents

- Associated Items:
- SV 011 Fuel Bin Vent 1
 - SV 012 Fuel Bin Vent 2
 - SV 013 Fuel Bin Vent 3
 - SV 014 Fuel Bin Vent 4
 - SV 015 Fuel Bin Vent 5
 - SV 016 Fuel Bin Vent 6

What to do	Why to do it
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715, subp. 1(B)
Total Particulate Matter: less than or equal to 0.30 grains/dry standard cubic foot of exhaust gas unless required to further reduce emissions to comply with the less stringent limit of either Minn. R. 7011.0730 or Minn. R. 7011.0735.	Minn. R. 7011.0715, subp. 1(A)

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-10**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: SV 001 Truck unloading building dust control**Associated Items:** EU 001 Truck unloading station live bottom hopper

EU 002 Truck unloading reclaim auger

EU 003 Truck unloading discharge auger

EU 005 Truck unloading belt conveyor

GP 001 Biomass Fuel Fabric Filters

What to do	Why to do it
The equipment emitting into SV 001 shall not be, in operation, for greater than 22 hours per day.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000
Recordkeeping: The Permittee shall keep records of the dates and hours of operation, daily, when the equipment emitting into SV 001 is in operation. These records may be kept on-site. Dates of non-operation shall also be recorded.	Minn. R. 7007.0800, subp. 5
Opacity: less than or equal to 5 percent of fugitive emissions during truck unloading of grain or grain-by products. Otherwise, the opacity shall be less than or equal to 20 percent while unloading non-grain materials. (See Group 001 for additional requirements.)	Minn. R. 7011.1005, subp. 3; Minn. R. 7011.0715
The Permittee shall clean up spilled commodities, as soon as practicable, using methods that minimize the amount of dust suspended.	Minn. R. 7011.1005, subp. 1
Stack Diameter: The inner diameter at top of stack shall be, at a maximum, 2.0 feet.	Title I Condition: 40 CFR Section 52.21(k); Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS

Facility Name: Koda Energy LLC
Permit Number: 13900114 - 002

Subject Item: SV 009 Boiler exhaust

Associated Items: EU 056 Suspension boiler

What to do	Why to do it
The height of SV 009 (from the boiler) shall be 220 feet or greater, above grade.	Minn. R. ch. 4410

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-12**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: EU 056 Suspension boiler**Associated Items:** CE 008 Multiple Cyclone w/o Fly Ash Reinjection - Most Multiclones

CE 009 Electrostatic Precipitator - High Efficiency

CE 010 Low NOx Burners

CE 011 Overfire Air

CE 012 Selective Noncatalytic Reduction for NOX

SV 009 Boiler exhaust

What to do	Why to do it
EMISSION LIMITS	hdr
Nitrogen Oxides: less than or equal to 0.25 lbs/million Btu heat input using 30-day Rolling Average while combusting biomass or biomass with natural gas.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
If the required CEMs demonstrates that the NOx averaging time limit is less stringent than what is achievable, based on CEMs results, the Agency may, at its discretion, use the authority under Minn. R. 7007.1600, subp. 2.C to reopen and revise the NOx averaging time to more closely reflect the CEM results.	Minn. R. 7007.1600, subp. 2.c.
The Permittee shall submit a report/plan to evaluate the CEM results 18 months after initial startup of EU 056.	
Nitrogen Oxides: less than or equal to 0.18 lbs/million Btu heat input using 30-day Rolling Average while combusting natural gas only.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Total Particulate Matter: less than or equal to 0.030 lbs/million Btu heat input . This limit applies while combusting gas, wood or a mixture of these fuels with any other fuels.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000; 40 CFR Section 60.43b(h)(1); 40 CFR Section 60.43b(g); 40 CFR Section 60.46b(b); Minn. R. 7011.065
Compliance with the PM limit shall be determined through performance testing as described in 40 CFR Section 60.46b(b).	
Particulate Matter < 10 micron: less than or equal to 0.037 lbs/million Btu heat input using 3-hour Average while combusting biomass or biomass with natural gas.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.010 lbs/million Btu heat input using 3-hour Average while combusting natural gas only.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.43 lbs/million Btu heat input using 30-day Rolling Average while combusting biomass or biomass with natural gas.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Carbon Monoxide: less than or equal to 0.167 lbs/million Btu heat input using 30-day Rolling Average while combusting natural gas only.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
If the required CEMs demonstrates that the CO averaging time limit is less stringent than what is achievable, based on CEMs results, the Agency may, at its discretion, use the authority under Minn. R. 7007.1600, subp. 2.C to reopen and revise the CO averaging time to more closely reflect the CEM results.	Minn. R. 7007.1600, subp. 2.c.
The Permittee shall submit a report/plan to evaluate the CEM results 18 months after initial startup of EU 056.	
Opacity: less than or equal to 20 percent based on a 6-minute average, except for one 6-minute period per hour of not more than 27 percent opacity while combusting wood and mixtures with wood.	40 CFR Section 60.43b(f); 40 CFR Section 60.43b(g)
HAP-Single: less than or equal to 9.0 tons/year using 12-month Rolling Sum . This includes Koda Energy emissions from both biomass combustion as well as natural gas. Rahr Malting HAP emissions must be also be included.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
HAPs - Total: less than or equal to 22.5 tons/year using 12-month Rolling Sum . This includes Koda Energy emissions from both biomass combustion as well as natural gas. Rahr Malting HAP emissions must be also be included.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Sulfur Dioxide: less than or equal to 38 tons/year using 12-month Rolling Sum	Title I Condition: to avoid significant emission thresholds as defined by 40 CFR 52.21; Minn. R. 7007.3000
Ammonia Slip: Limited to less than or equal to 30 ppm.	Minn. R. 7007.0800, subp. 2
Compliance shall be determined by monitoring the furnace temperature at the injection point and reagent feed rate. The minimum temperature window and maximum feed rate shall be determined by the performance testing below.	
OPERATING LIMITS	hdr

TABLE A: LIMITS AND OTHER REQUIREMENTS
A-13

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Fuel Usage: less than or equal to 10 percent of the boilers annual capacity for natural gas.	40 CFR Section 60.44b(l)
Fuel use limited to natural gas, untreated wood, oat hulls, malt and grain by-products, and any other biomass fuels/blends tested and approved. Untreated wood is defined as any wood that has not been subject to any chemical treatment or coating. Biomass includes portions of or all of various vegetation, including trees, untreated wood, oat hulls, malts and grain by-products, energy crops (such as switchgrass), etc.	Minn. R. 7007.0800, subp. 2
The Permittee shall operate and maintain the ESP (CE 009), at all times, that EU 056 is combusting biomass materials. Operation of the ESP is not required when the boiler is burning, only, natural gas. The Permittee shall document periods of non-operation of the ESP control equipment. This documentation shall include the times of non-operation as well as the reason for non-operation.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Except for periods when burning only natural gas and/or periods of startup and shutdown, the Permittee shall operate and maintain the SNCR (CE 012), at all times, that EU 056 is in operation. The Permittee shall document periods of non-operation of the SNCR control equipment.	Title I Condition: BACT Limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
The SNCR system will be adjusted or may be shut down when the ammonia slip exceeds the limit set above, until such time as the system is returned to normal.	Minn. R. 7007.0800, subp. 2
During a period of startup, shutdown, or malfunction, the Permittee shall minimize emissions to the greatest extent which is consistent with safety and good air pollution control practices.	Minn. R. 7007.0800, subp. 2
INITIAL COMPLIANCE DEMONSTRATION	hdr
Initial Performance Test: due 60 days after achieving maximum capacity (production rate), but no later than 180 days after initial startup, of EU 056, for PM and opacity following the procedures and reference methods provided in 40 CFR Section 60.46b(d). A test plan, which will define anticipated operating scenarios, will be submitted to determine at what operating load(s) compliance demonstration will be required. The Permittee must also establish the minimum voltage and secondary current (or total power input) for the ESP (EU 009).	40 CFR Section 60.46b(d); 40 CFR Section 60.8; Title I Condition, compliance with PM BACT limits as per 40 CFR Section 52.21; Minn. R. 7007.3000
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for PM10 while combusting biomass.	Title I Condition, compliance with PM10 BACT limits as per 40 CFR Section 52.21
Initial Performance Test: due 60 days after achieving maximum capacity (production rate), but no later than 180 days after initial startup, of EU 056, for NOx. NOx are to be monitored for 30 successive steam generating unit operating days and the 30-day average emission rate is used to determine compliance. The 30-day average emission rate is calculated as the average of all hourly emissions data recorded by the monitoring system during the 30-day test period.	Title I Condition, compliance with NOx BACT limits as per 40 CFR Section 52.21; Minn. R. 7007.3000
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for acetaldehyde. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and acetaldehyde emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for acrolien. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and acrolien emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for benzene. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and benzene emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for chlorine. Chlorine and alkalinity fuel samples shall be simultaneously collected for correlation between fuel content and chlorine emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for formaldehyde. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and formaldehyde emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-14**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Initial Performance Test: due 180 days after Initial Startup, of EU 056, for HCl. Chlorine and alkalinity fuel samples shall be simultaneously collected for correlation between chlorine content and HCl emission. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Tilte I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for manganese. A HAPs metals (including manganese) fuel sample shall be simultaneously collected for correlation between fuel content and manganese emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Tilte I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for styrene. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and styrene emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Tilte I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for toluene. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and toluene emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Tilte I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for mercury. Mercury shall be speciated into elemental, divalent, and particulate. A mercury fuel sample shall be simultaneously collected for correlation between mercury fuel content and mercury emission. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded. This testing requirement is for gathering site-specific data for the purpose of generating emission factors when analyzing the addition of biomass materials. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for speciated dioxins and furans. Copper and chlorine fuel samples shall be simultaneously collected for correlation between copper and chlorine fuel content and dioxin/furan emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded. This testing requirement is for gathering site-specific data for the purpose of generating emission factors when analyzing the addition of biomass materials. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup, of EU 056, to test for speciated PAHs. A proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and PAH emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded. This testing requirement is for gathering site-specific data for the purpose of generating emission factors when analyzing the addition of biomass materials. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.	Minn. R. 7007.0800, subp. 2
Initial Performance Test: due 180 days after Initial Startup, of EU 056, for SO ₂ . Sulfur and alkalinity fuels sample shall be simultaneously collected for correlation between sulfur fuel content and SO ₂ emissions. This performance test is to be conducted at about 100% operating load. The percent of type of each fuel compromising the overall fuel tested shall be recorded.	Title I Condition: Monitoring to avoid significant emissions threshold as defined by 40 CFR 52.21; Minn. R. 7007.3000
Performance Test: due 180 days after Initial Startup to test for ammonia slip.	Minn. R. 7007.0800, subp. 4
MONTHLY COMPLIANCE DEMONSTRATION	hdr
Fuel Analysis: due before end of each calendar month following Initial Fuel Analysis. This fuel analysis will include both the proximate and ultimate analysis.	Minn. R. 7007.0800, subp. 4
Fuel Analysis: due before end of each calendar month following Initial Fuel Analysis for chlorine and sulfur content in fuel.	Title I Condition: BACT requirement as per 40 CFR 52.21; Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-15**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

ANNUAL COMPLIANCE DEMONSTRATION	hdr
Performance Test: due before end of each calendar year following Initial Startup for ammonia slip.	Minn. R. 7007.0800, subp. 4
<p>Performance Test: due before end of each calendar year following Initial Startup for SO₂.</p> <p>The Permittee may perform performance tests for SO₂ every third year if three successive performance tests produce results that are 75% or less of the limit. The limit is a tested emission rate, in lb/mmBtu that if coupled with the maximum operating capacity of the boiler would produce annual emissions that are 75% or less than 38 tpy.</p> <p>Upon demonstration of annual emissions that are 75% or less than 38 tpy, the next performance test is conducted within 36 months of the anniversary date of the third consecutive performance test that demonstrates compliance with the emission limit.</p> <p>Thereafter, the Permittee shall conduct performance tests every third year but no later than 36 months following the previous performance tests. If a performance test does not demonstrate compliance with the emission limit, the Permittee shall conduct annual performance tests until all performance tests over 3 consecutive years demonstrate compliance with the SO₂ emission limit.</p>	Title I Condition: Monitoring to avoid classification as a major source under 40 CFR 52.21; Minn. R. 7007.3000
CONTINUOUS MONITORING REQUIREMENTS	hdr
<p>The Permittee shall install, calibrate, maintain, and operate a continuous monitoring system for measuring opacity and record the output of the system.</p> <p>The procedures under 40 CFR Section 60.13 shall be followed for installation, evaluation, and operation of the COMs.</p> <p>See MR 001 for additional requirements.</p>	40 CFR Section 60.48b(a); 40 CFR Section 60.48b(e); 40 CFR Section 60.13
<p>The Permittee shall install, calibrate, maintain, and operate a continuous monitoring system for NO_x, CO, and O₂ and record the output of the system.</p> <p>See Group 002 for additional requirements.</p>	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
The NO _x , CO, and O ₂ CEMs shall be operated and data recorded during all periods of operation except for continuous monitoring system breakdowns and repairs. Data is recorded during calibration checks, and zero and span adjustments.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
The 1-hour average NO _x and CO emission rates measured by the NO _x and CO CEMs shall be expressed in lb/MMBtu heat input and shall be used to calculate the average emission rates.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
The 1-hour average O ₂ emission rates measured by the O ₂ CEMs shall be expressed in "% units" and shall be used to calculate the average emission rates.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
REPORTING AND RECORDKEEPING REQUIREMENTS	hdr
Fuel Calculations: The Permittee shall record and maintain records of the amounts of each fuel combusted during, each day. By the 15th day of the month, the Permittee shall calculate the annual capacity factor individually for natural gas for the reporting period during the previous month. The natural gas annual capacity factor is determined on a 12-month rolling average basis. The annual capacity factor shall be calculated by comparing the 12 months previous gas usage in mmBtu to 308.18mmBtu * 8760 hours.	40 CFR Section 60.49b(d); Minn. R. 7007.0800, subps 4 and 5; Title I Condition: Monitoring to avoid significant emissions threshold as defined by 40 CFR 52.21 and 40 CFR Part 63; Minn. R. 7007.3000
<p>HAP Calculations:</p> <p>Total and Single HAPs shall be calculated by multiplying operation rate by an approved emission factor. The emission factors shall be from approved performance tests for mercury, dioxin, PAHs, acetaldehyde, acrolein, benzene, chlorine, formaldehyde, hydrogen chloride, styrene, toluene, and manganese. If emission factors are not available from testing, and for all other HAPs, AP-42 emission factors shall be used. HAPs, from natural gas combustion, shall also be included in this calculations. AP-42 factors shall be used for natural gas. HAP emissions, from Rahr Malting, must be included in both the single and total HAPs calculations. The Permittee may use other emission factors upon MPCA approval.</p>	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
The Permittee shall keep records of the type and amount of all fuels burned to demonstrate that all fuel types and mixtures would result in lower emissions of HCl and SO ₂ than the applicable emission limit.	Minn. R. 7007.0800, subp. 4 and 5
The Permittee shall maintain the records of opacity.	40 CFR Section 60.49b(f)

TABLE A: LIMITS AND OTHER REQUIREMENTS
A-16

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Single HAPs Recordkeeping: By the 15th day of the month, the Permittee shall calculate and record the tons of the individual HAPs emitted during the previous calendar month, and the tons of HAPs emitted during the previous 12-month period. Both Koda Energy and Rahr Malting emissions shall be included in these calculations. These calculations shall be based on the emission factors developed during the stack emission testing, operation rates, and AP-42 emission factors, and the monthly fuel analysis for chlorine. Emissions from both the biomass and natural gas combustion shall be included. The relationship between chlorine content and HCl emissions shall be established by the above mentioned stack testing and simultaneous fuel sampling and analysis.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
Total HAPs Recordkeeping: By the 15th day of the month, the Permittee shall calculate and record the tons of the total HAPs emitted during the previous calendar month, and the total tons of HAPs emitted during the previous 12-month period. Both Koda Energy and Rahr Malting emissions shall be included in these calculations. These calculations shall be based on the emission factors developed during the stack emission testing, operation rates, and AP-42 emission factors, and the monthly fuel analysis for chlorine. Emissions from both the biomass and natural gas combustion shall be included. The relationship between chlorine content and HCl emissions shall be established by the above mentioned stack testing and simultaneous fuel sampling and analysis.	Title I Condition: to avoid classification as a major source under 40 CFR Section 63, subp. DDDDD
SO2 Recordkeeping: By the 15th day of the month, the Permittee shall calculate and record the tons of SO2 emitted during the previous calendar month, and the tons of SO2 emitted during the previous 12-month period. These calculations shall be based on the emission factors developed during the stack emission testing and the monthly fuel analysis for sulfur. Each type of fuel burned during the month shall be tracked and sampled for sulfur content. The relationship between sulfur content and SO2 emissions shall be established by the above mentioned stack testing and simultaneous fuel sampling and analysis.	Title I Condition: to avoid classification as a major source under 40 CFR Section 52.21; Minn. R. 7070.3000
NOx Recordkeeping: The Permittee shall calculate the 30-day average NOx emission rate (lb/MMBtu heat input) at the end of operating day from the measured hourly emission rates recorded during the previous 30-day period.	Minn. R. 7007.0800, subp. 5
CO Recordkeeping: The Permittee shall calculate the 30-day average CO emission rate (lb/MMBtu heat input) each hour from the measured values for the previous 30-day period.	Minn. R. 7007.0800, subp. 5
<p>NOx Recordkeeping: During any 30-day period in which biomass is burned with or without natural gas, and natural gas is burned alone, the NOx limit shall be calculated as follows:</p> $\square \text{NOxI} = (0.25 \cdot (B + Gb) + 0.18(Go)) / (B + Gb + Go)$ <p>Where:</p> <ul style="list-style-type: none"> $\square \text{NOxI}$ = NOx limit in lb/mmBtu $\square 0.25$ = NOx limit when burning biomass with or with natural gas, in lb/mmBtu $\square 0.18$ = NOx limit when burning natural gas alone $\square B$ = heat input of biomass in mmBtu during the previous 30 day period $\square Gb$ = heat input of natural gas in mmBtu burned concurrently with biomass $\square Go$ = heat input of natural gas in mmBtu burned as a sole fuel <p>The 30 day NOx limit shall be calculated each day, and compared to the CEM average emission rate measured over the previous 30 day period. Heating value of the biomass shall be determined by the monthly fuel analysis.</p>	Title I Condition: Recordkeeping for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000

TABLE A: LIMITS AND OTHER REQUIREMENTS
A-17

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

<p>CO Recordkeeping: During any 30-day period in which biomass is burned with or without natural gas, and natural gas is burned alone, the CO limit shall be calculated as follows:</p> $COI = (0.43 \cdot (B + Gb) + 0.167 \cdot (Go)) / (B + Gb + Go)$ <p>Where:</p> <ul style="list-style-type: none"> COI = CO limit in lb/mmBtu 0.43 = CO limit when burning biomass with or with natural gas, in lb/mmBtu 0.167 = CO limit when burning natural gas alone B = heat input of biomass in mmBtu during the previous 30 day period Gb = heat input of natural gas in mmBtu burned concurrently with biomass Go = heat input of natural gas in mmBtu burned as a sole fuel <p>The 30 day CO limit shall be calculated each day, and compared to the CEM average emission rate measured over the previous 30 day period. Heating value of the biomass shall be determined by the monthly fuel analysis.</p>	<p>Title I Condition: Recordkeeping for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000</p>
<p>Start-up on biomass prohibited: During start-up of the boiler, natural gas shall be used to achieve combustion chamber operating temperatures.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Biomass Use during Start-ups and Shutdowns: The Permittee shall use of natural gas to warm the combustion and pollution control devices and maintain good combustion conditions in the combustion chamber from the time the biomass feed has been discontinued until the combustion chamber is clear of combustible material or active combustion ceases. This is a state only requirement and is not enforceable by the EPA Administrator or citizens under the Clean Air Act.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Recordkeeping: maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the facility including: any malfunction of the air pollution control equipment; or any periods during a continuous monitoring system or monitoring system is inoperative.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>ADDITIONAL BIOMASS FUEL TESTING PRE-AUTHORIZATION</p>	<p>hdr</p>
<p>Pre-Authorized Biomass Fuel Testing Authorization: The Permittee is pre-authorized to conduct test burns of the following biomass fuels. The following biomass fuels may be tested either alone or as blends with pre-authorized fuels:</p> <ul style="list-style-type: none"> -energy crops (grasses, stalks, stems, straws, and wood); and, - similar materials to what is currently authorized (grains and grain processing byproducts, distillers, dried grains, hulls, husks, shells, pits, and dry wood). <p>This testing requirement is for gathering site-specific data for the purpose of generating emission factors when analyzing the addition of biomass materials.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Any MPCA-approved biomass fuel must be accommodated with existing equipment, at the facility. In no instance does this permit authorize the Permittee to make any physical or operational changes that would trigger the applicability of a New Source Performance Standard, Maximum Achievable Control Technology, or Prevention of Significant Deterioration.</p>	<p>40 CFR Section 52.21; 40 CFR Part 60; 40 CFR Part 63</p>
<p>Biomass Fuel Testing Restrictions: Test burns shall be conducted, in accordance, with a MPCA-approved test plan and limited to no more than 30 days of operation and a test period not to exceed 60 days of duration.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Biomass Fuel Testing Requirements: Initial test burns shall be conducted to measure emissions of PM, PM10, opacity, CO, NOx, SO2, HCl, acrolein, benzene, chlorine, formaldehyde, manganese, styrene, and toluene, mercury, dioxin, PAHs, and other chemicals of potential interest, as determined by the MPCA, for the purpose of developing emission factors. In addition, a proximate and ultimate fuel analysis shall be simultaneously collected for correlation between fuel content and emissions. Upon MPCA satisfaction of test results, this list may be reduced.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Biomass Fuel Testing Submittals: 30-days prior to testing of a biomass fuel or blend, the Permittee shall submit a written performance test notification and test plan. the test plan shall:</p> <ol style="list-style-type: none"> 1) meet the requirements of Minn. R. 7017.2030; 2) describe which pre-authorized fuel or blend is to be combusted; and, 3) include: <ul style="list-style-type: none"> - the type and estimated amount of fuels to be tested; - operating parameters and anticipated fuel mixes during the test; - air pollutants, fuel parameters, and other chemicals of potential interest as determined by the MPCA that will be measured during the testing; and - a testing schedule. 	<p>Minn. R. 7017.2030, subp. 1-4; Minn. R. 7017.2018</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-18**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

<p>Performance Test Notifications and Submittals:</p> <p>Performance Tests are due as outlined in Tables A and B of the permit. See Table B for additional testing requirements.</p> <p>Performance Test Pre-test Meeting: due 7 days before each Performance Test Performance Test Report: due 45 days after each Performance Test Performance Test Report - Microfiche Copy: due 105 days after each Performance Test</p> <p>The Notification, Test Plan, and Test Report may be submitted in alternative format as allowed by Minn. R. 7017.2018.</p>	<p>Minn. R. 7017.2030, subp. 1-4, 7017.2018 and Minn. R. 7017.2035, subp. 1-2</p>
<p>Additional Biomass Fuels/Blends Evaluation: Upon approval of the performance tests, for the emissions listed in the biomass fuel testing requirements, the Permittee shall complete a Risk Assessment Screening Analysis. The Permittee shall use the emission factors developed during the above testing as input data for use of the MPCA's Risk Assessment Screening Spreadsheet (RASS) available at http://www.pca.state.mn.us/air/aera-risk.html. All of the remaining emission factors shall be the same as those initially used. The Permittee may also choose to use a more refined dispersion model for the analysis.</p>	<p>Minn. R. 7007.0800, subp. 2</p>
<p>Additional Biomass Fuels/Blends Evaluation Continued:</p> <p>If the results of the RASS demonstrate that all of the risks are equal to or less than the risks calculated in the initial facility permitting RASS, the Permittee may submit an application for the authorization to combust the additional fuels. This application shall be made in accordance with the requirements of Minn. R. 7007.1150 through Minn. R. 7007.1500, if a permit amendment is needed.</p> <p>If the results of the RASS demonstrate that any one of the risk(s) exceed the risk(s) calculated in the initial facility permitting RASS, the Permittee may submit the results of the RASS for MPCA evaluation.</p>	<p>Minn. R. 7007.0800, subp. 2</p>

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-19**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: EU 065 Dustless ash loadout**Associated Items:** CE 014 Ash silo dustless loadout

SV 008 Bin vent filter - ash fuel storage

What to do	Why to do it
Prior to loadout, the ash shall be wetted to a moisture content that will minimize fugitive emissions.	Title I Condition: BACT requirement as per 40 CFR Section 52.21; Minn. R. 7007.3000
The ash loadout shall be conducted within a fully enclosed building/structure.	Title I Condition: BACT requirement as per 40 CFR Section 52.21; Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 0.0020 grains/dry standard cubic foot	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Total Particulate Matter: less than or equal to 0.0020 grains/dry standard cubic foot (This satisfies Minn. R. 7011.0715.)	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000; Minn. R. 7011.0715
Opacity: less than or equal to 20 percent	Minn. R. 7011.0715
Total Particulate Matter: greater than or equal to 99.0 percent control efficiency	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Particulate Matter < 10 micron: greater than or equal to 99.0 percent control efficiency	Title I Condition: BACT limit as per 40 CFR Section 52.21(j); Minn. R. 7007.3000
Visible Emissions: The Permittee shall check the fabric filter stack (SV 008) for any visible emissions once each day, while loading, during daylight hours. During inclement weather, the Permittee shall read and record the pressure drop across the fabric filter, once each day of operation.	Title I Condition: Monitoring for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
Recordkeeping of Visible Emissions and Pressure Drop. The Permittee shall record the time and date of each visible emission inspection and pressure drop reading, and whether or not any visible emissions were observed, and whether or not the observed pressure drop was within the range specified in this permit	Title I Condition: Recordkeeping for 40 CFR Section 52.21(j) BACT Limit; Minn. R. 7007.3000
The Permittee shall operate and maintain the fabric filter at all times that any emission unit controlled by the fabric filter is in operation. The Permittee shall document periods of non-operation of the control equipment.	Minn. R. 7007.0800, subp. 14
Corrective Actions: The Permittee shall take corrective action as soon as possible if any of the following occur: - visible emissions are observed; - the recorded pressure drop is outside the required operating range; or - the fabric filter or any of its components are found during the inspections to need repair. Corrective actions shall return the pressure drop to within the permitted range, eliminate visible emissions, and/or include completion of necessary repairs identified during the inspection, as applicable. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the fabric filter. The Permittee shall keep a record of the type and date of any corrective action taken for each filter.	Minn. R. 7007.0800, subp. 4, 5, and 14
Monitoring Equipment: The Permittee shall install and maintain the necessary monitoring equipment for measuring and recording pressure drop as required by this permit. The monitoring equipment must be installed, in use, and properly maintained when the monitored fabric filter is in operation.	Minn. R. 7007.0800, subp. 4
Periodic Inspections: At least once per calendar quarter, or more frequently as required by the manufacturing specifications, the Permittee shall inspect the control equipment components. The Permittee shall maintain a written record of these inspections.	Minn. R. 7007.0800, subp. 4, 5, and 14
The Permittee shall operate and maintain the fabric filter in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available onsite for use by staff and MPCA staff.	Minn. R. 7007.0800, subp. 14
Initial Performance Test: due 90 days after Initial Startup, of EU 056, to measure (PM, PM10, and opacity) for SV 008.	Minn. R. 7017.2020, subp. 1

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-20**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: CE 009 Electrostatic Precipitator - High Efficiency**Associated Items:** EU 056 Suspension boiler

What to do	Why to do it
EMISSION AND OPERATIONAL LIMITS	hdr
Total Particulate Matter: less than or equal to 99.4 percent control efficiency	Title I Condition: BACT limit as per 40 CFR Section 52.21; Minn. R. 7007.3000
Particulate Matter < 10 micron: less than or equal to 99.4 percent control efficiency	Title I Condition: BACT limit as per 40 CFR Section 52.21; Minn. R. 7007.3000
Total Secondary Power Input: The Permittee shall maintain the total power input to the ESP with the parameters recommended by the manufacturer, unless a new range is set pursuant to Minn. R. 7017.2025, subp. 3. during the most recent MPCA approved performance test where compliance for Total Particulate Matter and/or Particulate Matter less than 10 microns emissions was demonstrated. If the one-hour rolling average total secondary power input drops below the minimum limit, this shall be reported as a deviation. The power input shall be submitted, along with an application for a major amendment. The manufacturer's information must be submitted with the application.	Title I Condition: BACT limit as per 40 CFR Section 52.21; Minn. R. 7007.3000
MONITORING AND RECORDKEEPING	hdr
Secondary Current and Secondary Voltage Monitoring: The Permittee shall collect the secondary current and voltage or total power input monitoring system data for the ESP. The secondary current and secondary voltage are to be measured continuously.	Title I Condition: Monitoring for 40 CFR Section 52.21 BACT Limit; Minn. R. 7007.3000
Data Collection: The Permittee shall maintain a continuous hard copy readout or computer disk file of the total secondary voltage and secondary current. The total secondary voltage and secondary current shall be recorded at least once every 15 minutes.	Title I Condition: Monitoring for 40 CFR Section 52.21 BACT Limit; Minn. R. 7007.3000; Minn. R. 7007.0800, subp. 4 and 5; 40 CFR Section 64
Recordkeeping: Every 15 minutes, the power input shall be calculated with the following equation: Total power input (P) = ((V1*I1) + (V2*I2) . . . (Vn*In)) where P = total power input to the ESP V = secondary voltage in each field I = current in each field Each four consecutive 15 minute power input values shall then be averaged into a hourly average. The hourly average power input shall be calculated and recorded.	40 CFR Section 64 ; Title I Condition: Recordkeeping for 40 CFR Section 52.21 BACT Limit; Minn. R. 7007.3000
Daily Monitoring: The Permittee shall physically verify the operation of the Continuous Parameter Monitoring System (CPMS) at least once each operating day to verify that it is working and recording properly. The Permittee shall maintain a written record of the daily verifications.	Minn. R. 7007.0800, subp. 4 and 5
Monitoring Equipment: The Permittee must install and maintain a continuous parameter monitoring system (CPMS) for monitoring the ESP total secondary power input as required by this permit. The monitoring equipment must be installed, in use, and properly maintained, including maintaining the necessary parts for routine repairs of the monitoring equipment, whenever operation of the monitored control equipment is required.	Minn. R. 7007.0800, subp. 4 and 5
Quarterly Inspections: At least once per calendar quarter, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components that are subject to wear or plugging, for example: bearings, belts, hoses, fans, nozzles, orifices, and ducts. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5 and 14
Annual Inspections: At least once per calendar year, or more frequently if required by the manufacturer, the Permittee shall inspect the control equipment components not covered by the quarterly inspections. This includes, but is not limited to, components that are not subject to wear or plugging including structural components, housings, and hoods. The Permittee shall maintain a written record of the inspection and any corrective actions taken resulting from the inspection.	Minn. R. 7007.0800, subp. 4, 5 and 14
Annual Calibration: The Permittee shall calibrate the voltmeter and ammeter at least annually and shall maintain a written record of the calibration and any action resulting from the calibration. Annual replacement is acceptable in lieu of calibration.	Minn. R. 7007.0800, subp. 4, 5 and 14

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-21**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Operation and Maintenance of ESP: The Permittee shall operate and maintain the ESP in accordance with the Operation and Maintenance (O & M) Plan. The Permittee shall keep copies of the O & M Plan available on-site for use by staff and review by MPCA staff.	Minn. R. 7007.0800, subp. 14
Corrective Actions: If the ESP power input is less than the power input determined by the manufacturer or the power input during the most recent performance test that determined compliance with the emission limits, the Permittee shall take the following steps, as soon as possible: 1) an inspection of the ESP system; 2) corrective action to return operation to within the permitted range; and 3) reporting of corrective action taken and the date. Corrective action shall be taken if the ESP or any of its components are found during the inspections to need repair. Corrective actions include, but are not limited to, those outlined in the O & M Plan for the ESP.	40 CFR Part 64; Minn. R. 7007.0800, subp. 4, 5 and 14
QA/QC: The Permittee shall confirm that the meters read zero when the ESP (CE 009) is not operating.	40 CFR Section 64.3
Recordkeeping: The owner or operator shall maintain records of monitoring data monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained. The owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.	40 CFR Section 64.8

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-22**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: FS 001 Road emissions due to truck hauling/transportation

What to do	Why to do it
Vehicle Traffic speeds shall not exceed 10 mph on all facility roads or parking surfaces. Signs shall be posted restricting the speeds to 10 mph.	Title I Condition: BACT requirement as per 40 CFR Section 52.21(k); Minn. R. 7007.3000
All roads or parking surfaces shall be paved.	Title I Condition: BACT requirement as per 40 CFR Section 52.21(k); Minn. R. 7007.3000
Under dry pavement conditions, sweeping is required, twice weekly. Sweeping is not required if the pavement is wet, or snow or ice covered.	
Recordkeeping: The Permittee shall record the dates of the required sweepings. The records are to be maintained on-site.	Minn. R. 7007.0800, subp. 5

TABLE A: LIMITS AND OTHER REQUIREMENTS**A-23**

12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

Subject Item: MR 001 COM

What to do	Why to do it
Installation Notification: due 60 days before installing the continuous opacity monitoring system. The notification shall include the plans and drawings of the system.	Minn. R. 7017.1040, subp. 1
Opacity CEMS: The Permittee shall install, calibrate, maintain, and operate a continuous opacity monitoring systems (COMS).	40 CFR Section 60.48b(a)
All COMS shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data for each successive 6-minute period.	Minn. R. 7017.1200, subp. 1, 2 & 3; 40 CFR Section 60.13(e)(1); 40 CFR Section 60.13(h)
COMS Certification Test: due 60 days after achieving maximum capacity but not later than 180 days after initial startup.	Minn. R. 7017.1050, subp. 1; 40 CFR Section 60.8(a)
COMS Certification Test Pretest Meeting: due 7 days before COMS Certification Test	Minn. R. 7017.1060, subp. 3
Continuous Operation: COMS must be operated and data recorded during all periods of emission unit operation including periods of emission unit start-up, shutdown, or malfunction except for periods of acceptable monitor downtime. This requirement applies whether or not a numerical emission limit applies during these periods. A COMS must not be bypassed except in emergencies where failure to bypass would endanger human health, safety, or plant equipment. Acceptable monitor downtime includes reasonable periods as listed in Items A, B, C and D of Minn. R. 7017.1090, subp. 2.	Minn. R. 7017.1090, subp. 1; 40 CFR Section 60.13(e)
QA Plan Required: Develop and implement a written quality assurance plan which covers each COMS. The plan shall be on site and available for inspection within 30 days after monitor certification. The plan shall contain the written procedures listed in Minn. R. 7017.1210, subp. 1.	Minn. R. 7017.1210, subp. 1
COMS QA/QC: The owner or operator of an affected facility is subject to the performance specifications listed in 40 CFR pt. 60, Appendix B and shall operate, calibrate, and maintain each COMS according to the QA/QC procedures in Minn. R. 7017.1210.	40 CFR Section 60.13(a); Minn. R. 7017.1210
COMS Daily Calibration Drift Check: The Permittee must automatically, intrinsic to the opacity monitor, check the zero and upscale (span) calibration drifts at least once daily. The acceptable range is defined in 40 CFR pt. 60, Appendix B PS-1. For COMS without automatic zero adjustments, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments. For COMS with automatic zero adjustments, the optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity. Minimum procedures must include an automated method for producing a simulated zero opacity condition and an upscale opacity condition as specified in 40 CFR 60.13(d)(2).	Minn. R. 7017.1210, subp. 2; 40 CFR Section 60.13(d)(l) regarding COMS and 60.13(d)(2)
COMS Calibration Error Audit: due before end of each half-year following COMS Certification Test. The first Calibration Error Audit is due within 180 days of the COMS Certification Test. Conduct three point calibration error audits at least 3 months apart but no greater than 8 months apart. Conduct audits in accordance with Minn. R. 7017.1210, subp. 3.	Minn. R. 7017.1210, subp. 3
Attenuator Calibration: The Permittee shall have an independent testing company conduct calibrations of each of the neutral density filters used in the calibration error audit according to the procedure in Code of Federal Regulations, Title 40, Part 60, Appendix B, Section 7.1.3.1 within the time frame of opacity stability guaranteed by the attenuator manufacturer. The manufacturer's guarantee of stability shall be on site available for inspection.	Minn. R. 7017.1210, subp. 4
Recordkeeping: The owner or operator must retain records of all COMS monitoring data and support information for a period of five years from the date of the monitoring sample, measurement or report. Records shall be kept at the source.	Minn. R. 7017.1130; 40 CFR Section 60.7(f)

TABLE B: SUBMITTALS

B-1 12/10/08

Facility Name: Koda Energy LLC
Permit Number: 13900114 - 002

Table B lists most of the submittals required by this permit. Please note that some submittal requirements may appear in Table A or, if applicable, within a compliance schedule located in Table C. Table B is divided into two sections in order to separately list one-time only and recurrent submittal requirements.

Send submittals that are required to be submitted to the U.S. EPA regional office to:

Mr. George Czerniak
Air and Radiation Branch
EPA Region V
77 West Jackson Boulevard
Chicago, Illinois 60604

Each submittal must be postmarked or received by the date specified in the applicable Table. Those submittals required by parts 7007.0100 to 7007.1850 must be certified by a responsible official, defined in Minn. R. 7007.0100, subp. 21. Other submittals shall be certified as appropriate if certification is required by an applicable rule or permit condition.

Send submittals that are required by the Acid Rain Program to:

U.S. Environmental Protection Agency
Clean Air Markets Division
1200 Pennsylvania Avenue NW (6204N)
Washington, D.C. 20460

Send any application for a permit or permit amendment to:

AQ Permit Technical Advisor
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Also, where required by an applicable rule or permit condition, send to the Permit Technical Advisor notices of:

- accumulated insignificant activities,
- installation of control equipment,
- replacement of an emissions unit, and
- changes that contravene a permit term.

Unless another person is identified in the applicable Table, send all other submittals to:

AQ Compliance Tracking Coordinator
Industrial Division
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

TABLE B: ONE TIME SUBMITTALS OR NOTIFICATIONS**B-2** 12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

What to send	When to send	Portion of Facility Affected
Application for Permit Reissuance	due 180 days before expiration of Existing Permit	Total Facility
CEM Certification Test Plan	due 30 days before CEM Certification Test	GP002
CEM Certification Test Report - Microfiche Copy	due 105 days after CEM Certification Test	GP002
CEM Certification Test Report	due 45 days after CEM Certification Test	GP002
COMS Certification Test Plan	due 30 days before COMS Certification Test	MR001
COMS Certification Test Report - Microfiche Copy	due 105 days after COMS Certification Test	MR001
COMS Certification Test Report	due 45 days after COMS Certification Test	MR001
Notification of the Actual Date of Initial Startup	due 15 days after Initial Startup in accordance with 40 CFR Section 60.49b(a). This notification shall include: 1) The design heat input capacity and the identification of the fuels to be combusted, 2) The annual capacity factor at which the Permittee anticipates operating the facility based on all fuels fired and based on each individual fuel fired.	EU056
Notification of the Date Construction Began	due 30 days after Start Of Construction	EU056
Relative Accuracy Test Audit (RATA) Notification	due 30 days before CEMS Relative Accuracy Test Audit (RATA).	Total Facility
Relative Accuracy Test Audit (RATA) Results Summary	due 45 days after CEMS Relative Accuracy Test Audit (RATA) for MR 002 (NOx) for each calendar year in which a RATA was performed.	MR002
Relative Accuracy Test Audit (RATA) Results Summary	due 45 days after CEMS Relative Accuracy Test Audit (RATA) for MR 003 (CO) for each calendar year in which a RATA was performed.	MR003
Relative Accuracy Test Audit (RATA) Results Summary	due 45 days after CEMS Relative Accuracy Test Audit (RATA) for MR 004 (O2).	MR004
Testing Frequency Plan	due 60 days after Initial Performance Test for PM, PM10, and opacity emissions. The plan shall specify a testing frequency based on the test data and MPCA guidance. Future performance tests based on one-year (12 month), 36 month, and 60 month intervals, or as applicable, shall be required upon written approval of the MPCA.	EU056, EU065, GP001

TABLE B: RECURRENT SUBMITTALS**B-3** 12/10/08

Facility Name: Koda Energy LLC

Permit Number: 13900114 - 002

What to send	When to send	Portion of Facility Affected
COMS Calibration Error Audit Results Summary	due 30 days after end of each calendar quarter following COMS Certification Test	MR001
Cylinder Gas Audit (CGA) Results Summary	due 30 days after end of each calendar quarter following end of the calendar quarter in which the Audit was performed for MR 002 (NOx).	MR002
Cylinder Gas Audit (CGA) Results Summary	due 30 days after end of each calendar quarter following end of the calendar quarter in which the Audit was performed for MR 003 (CO).	MR003
Cylinder Gas Audit (CGA) Results Summary	due 30 days after end of each calendar quarter following end of the calendar quarter in which the Audit was performed for MR 004 (O2).	MR004
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter following Initial Startup of the Monitor (MR 001). Excess opacity emissions are all 6-minute periods during which the average opacity exceeds the above opacity limit.	MR001
Excess Emissions/Downtime Reports (EER's)	due 30 days after end of each calendar quarter following Initial Startup of the Monitor (Submit Deviations Reporting Form DRF-1 as amended). The downtime portion of the EER shall include a report on all periods that the CEMS was out-of-control. The EER shall indicate all periods of monitor bypass and all periods of exceedances of the limit including exceedances allowed by an applicable standard, i.e. during startup, shutdown, and malfunctions.	Total Facility
Semiannual Deviations Report	due 30 days after end of each calendar half-year starting 08/23/2007 . The first semiannual report submitted by the Permittee shall cover the calendar half-year in which the permit is issued. The first report of each calendar year covers January 1 - June 30. The second report of each calendar year covers July 1 - December 31. If no deviations have occurred, the Permittee shall submit the report stating no deviations.	Total Facility
Compliance Certification	due 30 days after end of each calendar year starting 08/23/2007 (for the previous calendar year). To be submitted on a form approved by the Commissioner, both to the Commissioner and to the US EPA regional office in Chicago. This report covers all deviations experienced during the calendar year.	Total Facility
Emissions Inventory Report	due 91 days after end of each calendar year starting 08/23/2007 . To be submitted on a form approved by the Commissioner.	Total Facility

APPENDIX MATERIAL

Facility Name:Koda Energy LLC

Permit Number: 13900114-001

Appendix I. – Modeling Parameters Used for Koda Energy and Rahr Malting in Shakopee, Scott County, Minnesota

Hardcopy Report Submittals

Koda Energy Major Permit Application – Combined Heat and Power Biomass (November 2006).

Air Modeling Impact Assessment of Proposed Koda Energy Cogeneration Facility, Koda Energy, Shakopee, Minnesota (November 2006; revised June 2007).

Electronic (CD-ROM) Submittals

Air Modeling Impact Assessment for Koda Energy, LLC, November 2006, prepared by Golder Associates Inc.

Koda Energy Air Modeling Files, June 2007, prepared by Golder Associates Inc., received June 12, 2007.

Full Details

See CD-ROM for full data details.

Summary Report (this is a computer-generated “REPORT” with simple headers, simple sources, and selected parameters)

The summary report is for simple (constant) emission rates and corresponding stack/source parameters. It does not fully document details regarding model control options, emission rates with varying emission scalars, corresponding stack/source parameters, wind speed categories for wind erosion, building profile input program (BPIP) outputs, various output selections (e.g., EVENTFIL, MULTYEAR, PLOTFILE, POSTFILE, MAXIFILE), applicable “INCLUDED” file information, receptor grids, or other special features described in the following EPA modeling user guides:

Old AERMOD (04300): <http://www.epa.gov/scram001/7thconf/aermod/aermodugb.pdf>

New AERMOD (07026): http://www.epa.gov/scram001/dispersion_prefrec.htm#aermod

Note: If any difference exists between summary values in this appendix vs. the hardcopy report vs. the electronic CD-ROM modeled values, the electronic CD-ROM modeled values prevail.

For Your Information

Emission rates in the last table are not in units indicated but rather equivalent risk emission rate (ERER) units (a.k.a. Q/CHI sums).

For state environmental review purposes, the stack height for the Koda Energy biomass boiler (SV009) shall be at least (220 feet) above grade.

*** AERMOD - VERSION 07026 ***

*** Koda Energy PSD Increment Study NOX Scenario B June 2007

*** 05/30/07
*** 13:17:33

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**This Run Includes: 51 Source(s); 1 Source Group(s); and 1006 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	8.85	70.26	307.73	54.86	179.99	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457375	4960369	230	0.00	0.00	0.00	7.93	26.02	2.760	9.055	-264.	-537.	-934.	0.00	0.00	0
POINT	SV006	457381	4960335	230	0.00	0.00	0.00	7.93	26.02	2.760	9.055	-264.	-537.	-934.	0.00	0.00	0
POINT	SV007	457388	4960350	230	0.00	0.00	0.00	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.00	0.00	0.00	7.32	24.02	1.070	3.510	-264.	-537.	-934.	0.00	0.00	0
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.00	0.00	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
VOLUME	L0000252	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000253	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000254	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000255	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000256	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000257	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000258	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000259	457257	4960304	230	0.00	0.00	0.00	2.29	7.51	7.340	1.070						
VOLUME	L0000260	457268	4960315	230	0.00	0.00	0.00	2.29	7.51	7.340	1.070						
VOLUME	L0000261	457278	4960327	230	0.00	0.00	0.00	2.29	7.51	7.340	1.070						
VOLUME	L0000262	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000263	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000264	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000265	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000266	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000267	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000268	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000269	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000270	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000271	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000272	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000273	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000274	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000275	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000276	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000277	457459	4960434	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000278	457474	4960436	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000279	457488	4960438	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000280	457503	4960440	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000281	457518	4960442	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000282	457533	4960444	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						

VOLUME	L0000283	457548	4960446	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000284	457563	4960448	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000285	457578	4960451	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000286	457593	4960453	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000287	457607	4960455	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000288	457622	4960457	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000289	457637	4960459	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000290	457652	4960461	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000291	457667	4960463	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
TOTAL					8.85	70.26	307.73				

*** AERMOD - VERSION 07026 *** *** Koda Energy PSD Increment Study PM10 Scenario A June 2007

*** 06/04/07
*** 12:22:29

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**This Run Includes: 51 Source(s); 1 Source Group(s); and 1001 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	0.86	6.84	29.96	54.86	179.99	1.980	6.496	436.	163.	325.	11.42	2248.03	74506
POINT	SV005	457375	4960369	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.01	0.09	0.38	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.01	0.09	0.41	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.01	0.09	0.41	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.11	0.86	3.75	7.32	24.02	0.610	2.001	-264.	-537.	-934.	32.34	6366.14	20026
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.02	0.07	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
VOLUME	L0000252	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000253	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000254	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000255	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000256	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000257	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000258	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000259	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000260	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000261	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000262	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000263	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000264	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000265	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000266	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000267	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000268	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000269	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000270	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000271	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000272	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000273	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000274	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000275	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000276	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000277	457459	4960434	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000278	457474	4960436	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000279	457488	4960438	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000280	457503	4960440	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000281	457518	4960442	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000282	457533	4960444	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						

VOLUME	L0000283	457548	4960446	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000284	457563	4960448	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000285	457578	4960451	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000286	457593	4960453	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000287	457607	4960455	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000288	457622	4960457	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000289	457637	4960459	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000290	457652	4960461	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000291	457667	4960463	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
TOTAL					1.18	9.38	41.06				
SUMP=					1.18	9.35	40.95				
SUMV=					0.00	0.03	0.11				

*** AERMOD - VERSION 07026 *** *** Koda Energy PSD Increment Study PM10 Scenario B (100% load) June 200 ***

06/04/07
12:22:54

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**This Run Includes: 51 Source(s); 1 Source Group(s); and 1001 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	1.44	11.40	49.94	54.86	179.99	1.980	6.496	451.	178.	352.	19.60	3858.27	127874
POINT	SV005	457375	4960369	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.01	0.09	0.38	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.01	0.09	0.41	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.01	0.09	0.41	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.11	0.86	3.75	7.32	24.02	0.610	2.001	-264.	-537.	-934.	32.34	6366.14	20026
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.02	0.07	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
VOLUME	L0000252	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000253	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000254	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000255	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000256	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000257	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000258	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000259	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000260	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000261	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000262	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000263	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000264	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000265	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000266	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000267	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000268	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000269	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000270	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000271	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000272	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000273	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000274	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000275	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000276	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000277	457459	4960434	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000278	457474	4960436	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000279	457488	4960438	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000280	457503	4960440	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000281	457518	4960442	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000282	457533	4960444	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000283	457548	4960446	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						

VOLUME	L0000284	457563	4960448	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000285	457578	4960451	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000286	457593	4960453	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000287	457607	4960455	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000288	457622	4960457	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000289	457637	4960459	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000290	457652	4960461	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000291	457667	4960463	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
TOTAL					1.76	13.94	61.04				
SUMP=					1.75	13.91	60.93				
SUMV=					0.00	0.03	0.11				

*** AERMOD - VERSION 07026 ***

*** NAAQS - June 2007 Koda Energy/Rahr Malting NAAQS Scenerio B (MAX) 5 ***

05/31/07

17:49:29

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**This Run Includes: 233 Source(s); 7 Source Group(s); and 1145 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)						
POINT	SV009	457444	4960359	230	9.71	77.04	337.42	54.86	179.99	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457376	4960369	230	0.00	0.00	0.00	7.93	26.02	0.840	2.756	-264.	-537.	-934.	0.00	0.00	0
POINT	SV006	457381	4960335	230	0.00	0.00	0.00	7.93	26.02	0.840	2.756	-264.	-537.	-934.	0.00	0.00	0
POINT	SV007	457388	4960350	230	0.00	0.00	0.00	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.00	0.00	0.00	7.32	24.02	1.070	3.510	-264.	-537.	-934.	0.00	0.00	0
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.00	0.00	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.09	0.68	2.99	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.00	0.00	0.00	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.00	0.00	0.00	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.00	0.00	0.00	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.00	0.00	0.00	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.00	0.00	0.00	3.70	12.14	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV99_R	457647	4960431	230	0.00	0.00	0.00	8.38	27.49	3.000	9.843	0.	-273.	-460.	13.35	2627.95	199949
POINT	SV98_R	457522	4960508	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV97_R	457526	4960519	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV03_R	457514	4960520	230	1.83	14.53	63.65	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.00	0.00	0.00	10.00	32.81	1.070	3.510	294.	21.	70.	0.00	0.00	0
POINT	SV27_R	457341	4960476	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	2.16	17.15	75.12	15.24	50.00	0.200	0.656	771.	498.	928.	69.701	3720.47	4640
VOLUME	L0001195	457275	4960485	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001196	457276	4960482	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001197	457276	4960478	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001198	457277	4960475	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001199	457277	4960472	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001200	457278	4960468	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001201	457279	4960465	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001202	457279	4960462	230	0.36	2.86	12.50	37.49	123.00	1.560	12.140						
VOLUME	L0001227	457395	4960513	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160						
VOLUME	L0001228	457396	4960513	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160						
VOLUME	L0001229	457398	4960513	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160						
VOLUME	L0001230	457399	4960514	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160						
VOLUME	L0001231	457401	4960514	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160						
VOLUME	L0001232	457402	4960514	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160						

VOLUME	L0001233	457404	4960514	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001234	457405	4960515	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001235	457407	4960515	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001236	457409	4960515	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001237	457410	4960515	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001238	457412	4960516	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001239	457413	4960516	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001240	457415	4960516	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001241	457416	4960516	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001242	457418	4960517	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001243	457419	4960517	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001244	457421	4960517	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001245	457422	4960517	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001246	457424	4960518	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001247	457426	4960518	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001248	457427	4960518	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001249	457429	4960518	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001250	457430	4960519	230	0.03	0.27	1.17	38.40	125.98	0.730	17.160
VOLUME	L0001251	457451	4960517	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001252	457451	4960515	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001253	457451	4960513	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001254	457452	4960512	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001255	457452	4960510	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001256	457452	4960508	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001257	457453	4960506	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001258	457453	4960504	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001259	457453	4960502	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001260	457453	4960500	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001261	457454	4960498	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001262	457454	4960496	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001263	457454	4960495	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001264	457455	4960493	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001265	457455	4960491	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001266	457455	4960489	230	0.00	0.00	0.00	24.99	81.99		

VOLUME	L0001287	457499	4960520	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001288	457499	4960518	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001294	457460	4960409	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001295	457460	4960407	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001296	457460	4960406	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001297	457461	4960404	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001298	457461	4960403	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001299	457461	4960401	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001300	457461	4960400	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001301	457462	4960398	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001302	457462	4960397	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001303	457462	4960395	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001304	457462	4960394	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001305	457463	4960392	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001306	457463	4960391	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001307	457463	4960389	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001308	457463	4960387	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001309	457464	4960386	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001310	457464	4960384	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001311	457464	4960383	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001312	457464	4960381	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001313	457465	4960380	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001314	457465	4960378	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001315	457465	4960377	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001316	457465	4960375	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001317	457466	4960374	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001318	457466	4960372	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001319	457466	4960371	230	0.03	0.27	1.19	22.86	75.00	0.720	11.020
VOLUME	L0001320	457466	4960369	230	0.03	0.27	1.19	22.86	75.00	0	

VOLUME	L0001341	457601	4960434	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001342	457603	4960435	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001343	457604	4960435	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001344	457606	4960435	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001345	457607	4960435	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001346	457609	4960436	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001347	457610	4960436	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001348	457612	4960436	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001349	457613	4960436	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001350	457615	4960437	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001351	457616	4960437	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001352	457618	4960437	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001353	457619	4960437	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001354	457621	4960438	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001355	457622	4960438	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001356	457624	4960438	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001357	457625	4960438	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001358	457627	4960439	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001359	457628	4960439	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
VOLUME	L0001360	457630	4960439	230	0.04	0.34	1.51	30.48	100.00	0.720	14.230
TOTAL					20.16	160.01	700.78				
SUMP=					13.79	109.40	479.17				
SUMV=					6.38	50.60	221.62				

*** AERMOD - VERSION 07026 ***

*** NAAQS - Koda Energy/Rahr Malting NAAQS Scenario A (MAX) 5 Year Run w ***

06/05/07
09:14:54

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**This Run Includes: 340 Source(s); 3 Source Group(s); and 1145 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	0.86	6.84	29.96	54.86	179.99	1.980	6.496	436.	163.	325.	11.42	2248.03	74506
POINT	SV005	457376	4960369	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.01	0.09	0.38	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.11	0.86	3.75	7.32	24.02	0.610	2.001	0.	-273.	-460.	32.34	6366.14	20026
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.02	0.07	7.62	25.00	0.250	0.820	0.	-273.	-460.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.03	0.14	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.03	0.21	0.94	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.02	0.13	0.59	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.01	0.07	0.31	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.02	0.15	0.66	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.01	0.06	0.24	3.66	12.01	1.040	3.412	294.	21.	70.	13.76	2708.66	24767
POINT	SV99_R	457647	4960431	230	0.01	0.07	0.31	8.38	27.49	3.000	9.843	0.	-273.	-460.	12.99	2557.09	194557
POINT	SV98_R	457522	4960508	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV97_R	457526	4960519	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV03_R	457514	4960520	230	0.06	0.51	2.22	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.03	0.27	1.18	10.00	32.81	1.070	3.510	294.	21.	70.	16.65	3277.56	31723
POINT	SV27_R	457341	4960476	230	0.01	0.08	0.35	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.01	0.06	0.24	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.01	0.06	0.24	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	21.64	71.00	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.01	0.08	0.35	12.00	39.37	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.07	0.54	2.36	15.24	50.00	0.200	0.656	771.	498.	928.	69.7013720.47	4640	
VOLUME	L0000899	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000900	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000901	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000902	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000903	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000904	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000905	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000906	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000907	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000908	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000909	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000910	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000911	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						

VOLUME	L0000912	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070
VOLUME	L0000913	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070
VOLUME	L0000914	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000915	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000916	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000917	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000918	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000919	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000920	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000921	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000922	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000923	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000924	457456	4960434	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000925	457467	4960436	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000926	457479	4960438	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000927	457494	4960441	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000928	457510	4960443	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000929	457525	4960445	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000930	457541	4960446	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000931	457556	4960448	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000932	457572	4960450	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000933	457587	4960452	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000934	457602	4960454	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000935	457618	4960456	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000936	457633	4960458	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000937	457649	4960460	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000938	457664	4960462	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0001373	457386	4960515	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001374	457400	4960518	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001375	457415	4960521	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001376	457429	4960524	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001377	457443	4960527	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001378	457458	4960530	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001379	457472	4960532	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001380	457487	4960535	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001381	457502	4960537	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001382	457516	4960539	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001383	457531	4960541	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001384	457546	4960543	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001385	457561	4960545	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001386	457575	4960543	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001387	457589	4960539	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001388	457603	4960536	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001389	457617	4960532	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001390	457631	4960529	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001391	457645	4960525	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001392	457659	4960521	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001393	457349	4960531	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001394	457343	4960525	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001395	457331	4960521	230	0.00	0.00	0.00	2.29	7.51	5.990	1.070 *HROFDY*
VOLUME	L0001396	457329	4960510	230	0.00	0.00	0.01	2.29	7.51	7.060	1.070 *HROFDY*
VOLUME	L0001397	457577	4960528	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001398	457590	4960527	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001399	457604	4960525	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*

VOLUME	L0001400	457618	4960524	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001401	457631	4960523	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001402	457645	4960522	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001403	457659	4960521	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001369	457662	4960524	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001370	457660	4960538	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001371	457658	4960553	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001372	457656	4960567	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0000974	457516	4960437	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000975	457527	4960441	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000976	457538	4960445	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000977	457549	4960449	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000978	457563	4960451	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000979	457578	4960453	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000980	457592	4960455	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000981	457607	4960456	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000982	457622	4960458	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000983	457636	4960459	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000984	457651	4960461	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000985	457665	4960462	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000986	457256	4960304	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000987	457262	4960318	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000988	457268	4960332	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000989	457274	4960345	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000990	457280	4960359	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000991	457287	4960373	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000992	457293	4960386	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000993	457299	4960400	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000994	457312	4960406	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000995	457328	4960408	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000996	457344	4960410	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000997	457359	4960413	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000998	457375	4960415	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000999	457391	4960417	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001000	457406	4960420	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001001	457422	4960422	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001002	457437	4960425	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001003	457453	4960427	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001004	457469	4960429	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001005	457484	4960432	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001195	457275	4960485	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001196	457276	4960482	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001197	457276	4960478	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001198	457277	4960475	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001199	457277	4960472	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001200	457278	4960468	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001201	457279	4960465	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001202	457279	4960462	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001227	457395	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001228	457396	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001229	457398	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001230	457399	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001231	457401	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001232	457402	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*

VOLUME	L0001233	457404	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001234	457405	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001235	457407	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001236	457409	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001237	457410	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001238	457412	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001239	457413	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001240	457415	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001241	457416	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001242	457418	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001243	457419	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001244	457421	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001245	457422	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001246	457424	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001247	457426	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001248	457427	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001249	457429	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001250	457430	4960519	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001251	457451	4960517	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001252	457451	4960515	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001253	457451	4960513	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001254	457452	4960512	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001255	457452	4960510	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001256	457452	4960508	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001257	457453	4960506	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001258	457453	4960504	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001259	457453	4960502	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001260	457453	4960500	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001261	457454	4960498	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001262	457454	4960496	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001263	457454	4960495	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001264	457455	4960493	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001265	457455	496									

VOLUME	L0001287	457499	4960520	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260	
VOLUME	L0001288	457499	4960518	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260	
VOLUME	L0001289	457500	4960517	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260	
VOLUME	L0001290	457500	4960515	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260	
VOLUME	L0001291	457500	4960513	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260	
VOLUME	L0001292	457500	4960512	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260	
VOLUME	L0001293	457460	4960410	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001294	457460	4960409	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001295	457460	4960407	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001296	457460	4960406	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001297	457461	4960404	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001298	457461	4960403	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001299	457461	4960401	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001300	457461	4960400	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001301	457462	4960398	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001302	457462	4960397	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001303	457462	4960395	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001304	457462	4960394	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001305	457463	4960392	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001306	457463	4960391	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001307	457463	4960389	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001308	457463	4960387	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001309	457464	4960386	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001310	457464	4960384	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001311	457464	4960383	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001312	457464	4960381	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001313	457465	4960380	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001314	457465	4960378	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001315	457465	4960377	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001316	457465	4960375	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001317	457466	4960374	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L0001318	457466	4960372	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020	*SEASON*
VOLUME	L000131											

VOLUME	L0001341	457601	4960434	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001342	457603	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001343	457604	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001344	457606	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001345	457607	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001346	457609	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001347	457610	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001348	457612	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001349	457613	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001350	457615	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001351	457616	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001352	457618	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001353	457619	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001354	457621	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001355	457622	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001356	457624	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001357	457625	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001358	457627	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001359	457628	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001360	457630	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
TOTAL					3.82	30.31	132.77					
SUMP=					1.47	11.70	51.25					
SUMV=					2.35	18.61	81.52					

*** AERMOD - VERSION 07026 *** *** NAAQS - Koda Energy/Rahr Malting NAAQS Scenerio B (MAX) 5 Year Run w ***

06/05/07
11:27:24

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**This Run Includes: 340 Source(s); 3 Source Group(s); and 1145 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)						
POINT	SV009	457444	4960359	230	1.44	11.40	49.94	54.86	179.99	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457376	4960369	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.01	0.09	0.38	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.11	0.86	3.75	7.32	24.02	0.610	2.001	0.	-273.	-460.	32.34	6366.14	20026
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.02	0.07	7.62	25.00	0.250	0.820	0.	-273.	-460.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.03	0.14	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.03	0.21	0.94	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.02	0.13	0.59	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.01	0.07	0.31	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.02	0.15	0.66	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.01	0.06	0.24	3.66	12.01	1.040	3.412	294.	21.	70.	13.76	2708.66	24767
POINT	SV99_R	457647	4960431	230	0.01	0.07	0.31	8.38	27.49	3.000	9.843	0.	-273.	-460.	12.99	2557.09	194557
POINT	SV98_R	457522	4960508	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV97_R	457526	4960519	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV03_R	457514	4960520	230	0.06	0.51	2.22	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.03	0.27	1.18	10.00	32.81	1.070	3.510	294.	21.	70.	16.65	3277.56	31723
POINT	SV27_R	457341	4960476	230	0.01	0.08	0.35	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.01	0.06	0.24	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.01	0.06	0.24	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	21.64	71.00	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.01	0.08	0.35	12.00	39.37	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.07	0.54	2.36	15.24	50.00	0.200	0.656	771.	498.	928.	69.70	13720.47	4640
VOLUME	L0000899	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000900	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000901	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000902	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000903	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000904	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000905	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000906	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000907	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000908	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000909	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000910	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000911	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000912	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						

VOLUME	L0000913	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070
VOLUME	L0000914	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000915	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000916	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000917	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000918	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000919	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000920	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000921	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000922	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000923	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000924	457456	4960434	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000925	457467	4960436	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000926	457479	4960438	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000927	457494	4960441	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000928	457510	4960443	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000929	457525	4960445	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000930	457541	4960446	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000931	457556	4960448	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000932	457572	4960450	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000933	457587	4960452	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000934	457602	4960454	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000935	457618	4960456	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000936	457633	4960458	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000937	457649	4960460	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000938	457664	4960462	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0001373	457386	4960515	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001374	457400	4960518	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001375	457415	4960521	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001376	457429	4960524	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001377	457443	4960527	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001378	457458	4960530	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001379	457472	4960532	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001380	457487	4960535	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001381	457502	4960537	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001382	457516	4960539	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001383	457531	4960541	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001384	457546	4960543	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001385	457561	4960545	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001386	457575	4960543	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001387	457589	4960539	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001388	457603	4960536	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001389	457617	4960532	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001390	457631	4960529	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001391	457645	4960525	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001392	457659	4960521	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001393	457349	4960531	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001394	457343	4960525	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001395	457331	4960521	230	0.00	0.00	0.00	2.29	7.51	5.990	1.070 *HROFDY*
VOLUME	L0001396	457329	4960510	230	0.00	0.00	0.01	2.29	7.51	7.060	1.070 *HROFDY*
VOLUME	L0001397	457577	4960528	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001398	457590	4960527	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001399	457604	4960525	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001400	457618	4960524	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*

VOLUME	L0001401	457631	4960523	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001402	457645	4960522	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001403	457659	4960521	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001369	457662	4960524	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001370	457660	4960538	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001371	457658	4960553	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001372	457656	4960567	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0000974	457516	4960437	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000975	457527	4960441	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000976	457538	4960445	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000977	457549	4960449	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000978	457563	4960451	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000979	457578	4960453	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000980	457592	4960455	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000981	457607	4960456	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000982	457622	4960458	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000983	457636	4960459	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000984	457651	4960461	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000985	457665	4960462	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000986	457256	4960304	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000987	457262	4960318	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000988	457268	4960332	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000989	457274	4960345	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000990	457280	4960359	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000991	457287	4960373	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000992	457293	4960386	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000993	457299	4960400	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000994	457312	4960406	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000995	457328	4960408	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000996	457344	4960410	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000997	457359	4960413	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000998	457375	4960415	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000999	457391	4960417	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001000	457406	4960420	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001001	457422	4960422	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001002	457437	4960425	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001003	457453	4960427	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001004	457469	4960429	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001005	457484	4960432	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001195	457275	4960485	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001196	457276	4960482	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001197	457276	4960478	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001198	457277	4960475	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001199	457277	4960472	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001200	457278	4960468	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001201	457279	4960465	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001202	457279	4960462	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	*SEASON*
VOLUME	L0001227	457395	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001228	457396	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001229	457398	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001230	457399	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001231	457401	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001232	457402	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001233	457404	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*

VOLUME	L0001234	457405	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001235	457407	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001236	457409	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001237	457410	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001238	457412	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001239	457413	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001240	457415	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001241	457416	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001242	457418	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001243	457419	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001244	457421	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001245	457422	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001246	457424	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001247	457426	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001248	457427	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001249	457429	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001250	457430	4960519	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	*SEASON*
VOLUME	L0001251	457451	4960517	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001252	457451	4960515	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001253	457451	4960513	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001254	457452	4960512	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001255	457452	4960510	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001256	457452	4960508	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001257	457453	4960506	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001258	457453	4960504	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001259	457453	4960502	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001260	457453	4960500	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001261	457454	4960498	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001262	457454	4960496	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001263	457454	4960495	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001264	457455	4960493	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001265	457455	4960491	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400	
VOLUME	L0001266	457455	4960489</									

VOLUME	L0001288	457499	4960518	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001294	457460	4960409	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001295	457460	4960407	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001296	457460	4960406	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001297	457461	4960404	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001298	457461	4960403	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001299	457461	4960401	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001300	457461	4960400	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001301	457462	4960398	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001302	457462	4960397	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001303	457462	4960395	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001304	457462	4960394	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001305	457463	4960392	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001306	457463	4960391	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001307	457463	4960389	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001308	457463	4960387	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001309	457464	4960386	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001310	457464	4960384	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001311	457464	4960383	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001312	457464	4960381	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001313	457465	4960380	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001314	457465	4960378	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001315	457465	4960377	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001316	457465	4960375	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001317	457466	4960374	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001318	457466	4960372	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001319	457466	4960371	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001320	457466	4960369	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020 *SEASON*
VOLUME	L0001321										

VOLUME	L0001342	457603	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001343	457604	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001344	457606	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001345	457607	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001346	457609	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001347	457610	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001348	457612	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001349	457613	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001350	457615	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001351	457616	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001352	457618	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001353	457619	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001354	457621	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001355	457622	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001356	457624	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001357	457625	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001358	457627	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001359	457628	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
VOLUME	L0001360	457630	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230	*SEASON*
TOTAL					4.39	34.88	152.75					
SUMP=					2.05	16.26	71.23					
SUMV=					2.35	18.61	81.52					

*** AERMOD - VERSION 07026 ***

*** NAAQS - Koda Energy/Rahr Malting NAAQS Scenario A 5 Year Run with FA ***

06/05/07
 07:23:45

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**This Run Includes: 347 Source(s); 8 Source Group(s); and

494 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	0.86	6.84	29.96	54.86	179.99	1.980	6.496	436.	163.	325.	11.42	2248.03	74506
POINT	SV005	457376	4960369	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.01	0.09	0.38	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.11	0.86	3.75	7.32	24.02	0.610	2.001	0.	-273.	-460.	32.34	6366.14	20026
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.02	0.07	7.62	25.00	0.250	0.820	0.	-273.	-460.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.03	0.14	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.04	0.30	1.32	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.04	0.31	1.36	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.01	0.07	0.31	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.02	0.15	0.66	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.01	0.08	0.35	3.66	12.01	1.040	3.412	294.	21.	70.	13.76	2708.66	24767
POINT	SV99_R	457647	4960431	230	0.01	0.07	0.31	8.38	27.49	3.000	9.843	0.	-273.	-460.	12.99	2557.09	194557
POINT	SV98_R	457522	4960508	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV97_R	457526	4960519	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV03_R	457514	4960520	230	0.06	0.51	2.22	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.10	0.76	3.34	10.00	32.81	1.070	3.510	294.	21.	70.	16.65	3277.56	31723
POINT	SV27_R	457341	4960476	230	0.02	0.17	0.76	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.01	0.08	0.35	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.02	0.13	0.56	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	21.64	71.00	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.03	0.24	1.04	12.00	39.37	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.07	0.54	2.36	15.24	50.00	0.200	0.656	771.	498.	928.	69.7013720.47		4640
VOLUME	L0000899	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000900	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000901	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000902	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000903	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000904	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000905	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000906	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000907	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000908	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000909	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000910	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000911	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						

VOLUME	L0000912	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070
VOLUME	L0000913	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070
VOLUME	L0000914	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000915	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000916	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000917	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000918	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000919	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000920	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000921	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000922	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000923	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000924	457456	4960434	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000925	457467	4960436	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000926	457479	4960438	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000927	457494	4960441	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000928	457510	4960443	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000929	457525	4960445	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000930	457541	4960446	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000931	457556	4960448	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000932	457572	4960450	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000933	457587	4960452	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000934	457602	4960454	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000935	457618	4960456	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000936	457633	4960458	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000937	457649	4960460	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000938	457664	4960462	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0001373	457386	4960515	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001374	457400	4960518	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001375	457415	4960521	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001376	457429	4960524	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001377	457443	4960527	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001378	457458	4960530	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001379	457472	4960532	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001380	457487	4960535	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001381	457502	4960537	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001382	457516	4960539	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001383	457531	4960541	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001384	457546	4960543	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001385	457561	4960545	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001386	457575	4960543	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001387	457589	4960539	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001388	457603	4960536	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001389	457617	4960532	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001390	457631	4960529	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001391	457645	4960525	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001392	457659	4960521	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001393	457349	4960531	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001394	457343	4960525	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001395	457331	4960521	230	0.00	0.00	0.00	2.29	7.51	5.990	1.070 *HROFDY*
VOLUME	L0001396	457329	4960510	230	0.00	0.00	0.01	2.29	7.51	7.060	1.070 *HROFDY*
VOLUME	L0001397	457577	4960528	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001398	457590	4960527	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001399	457604	4960525	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*

VOLUME	L0001400	457618	4960524	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001401	457631	4960523	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001402	457645	4960522	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001403	457659	4960521	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001369	457662	4960524	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001370	457660	4960538	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001371	457658	4960553	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001372	457656	4960567	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0000974	457516	4960437	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000975	457527	4960441	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000976	457538	4960445	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000977	457549	4960449	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000978	457563	4960451	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000979	457578	4960453	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000980	457592	4960455	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000981	457607	4960456	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000982	457622	4960458	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000983	457636	4960459	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000984	457651	4960461	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000985	457665	4960462	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000986	457256	4960304	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000987	457262	4960318	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000988	457268	4960332	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000989	457274	4960345	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000990	457280	4960359	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000991	457287	4960373	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000992	457293	4960386	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000993	457299	4960400	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000994	457312	4960406	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000995	457328	4960408	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000996	457344	4960410	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000997	457359	4960413	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000998	457375	4960415	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000999	457391	4960417	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001000	457406	4960420	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001001	457422	4960422	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001002	457437	4960425	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001003	457453	4960427	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001004	457469	4960429	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001005	457484	4960432	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001195	457275	4960485	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001196	457276	4960482	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001197	457276	4960478	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001198	457277	4960475	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001199	457277	4960472	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001200	457278	4960468	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001201	457279	4960465	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001202	457279	4960462	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001227	457395	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001228	457396	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001229	457398	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001230	457399	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001231	457401	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001232	457402	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	

VOLUME	L0001233	457404	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001234	457405	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001235	457407	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001236	457409	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001237	457410	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001238	457412	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001239	457413	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001240	457415	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001241	457416	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001242	457418	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001243	457419	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001244	457421	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001245	457422	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001246	457424	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001247	457426	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001248	457427	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001249	457429	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001250	457430	4960519	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001251	457451	4960517	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001252	457451	4960515	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001253	457451	4960513	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001254	457452	4960512	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001255	457452	4960510	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001256	457452	4960508	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001257	457453	4960506	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001258	457453	4960504	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001259	457453	4960502	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001260	457453	4960500	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001261	457454	4960498	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001262	457454	4960496	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001263	457454	4960495	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001264	457455	4960493	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001265	457455	4960491	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001266	457455	4960489	230	0.01	0.10	0.42	24.99	81.99		

VOLUME	L0001287	457499	4960520	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001288	457499	4960518	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001294	457460	4960409	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001295	457460	4960407	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001296	457460	4960406	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001297	457461	4960404	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001298	457461	4960403	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001299	457461	4960401	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001300	457461	4960400	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001301	457462	4960398	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001302	457462	4960397	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001303	457462	4960395	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001304	457462	4960394	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001305	457463	4960392	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001306	457463	4960391	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001307	457463	4960389	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001308	457463	4960387	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001309	457464	4960386	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001310	457464	4960384	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001311	457464	4960383	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001312	457464	4960381	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001313	457465	4960380	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001314	457465	4960378	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001315	457465	4960377	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001316	457465	4960375	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001317	457466	4960374	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001318	457466	4960372	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001319	457466	4960371	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001320	457466	4960369	230	0.02	0.12	0.54	22.86	75.00	0	

VOLUME	L0001341	457601	4960434	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001342	457603	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001343	457604	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001344	457606	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001345	457607	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001346	457609	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001347	457610	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001348	457612	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001349	457613	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001350	457615	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001351	457616	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001352	457618	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001353	457619	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001354	457621	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001355	457622	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001356	457624	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001357	457625	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001358	457627	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001359	457628	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001360	457630	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
TOTAL					3.96	31.44	137.71				
SUMP=					1.62	12.83	56.19				
SUMV=					2.35	18.61	81.52				

*** AERMOD - VERSION 07026 ***

*** NAAQS - Koda Energy/Rahr Malting NAAQS Scenerio B (MAX) 5 Year Run w ***

06/05/07
 07:23:34

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**This Run Includes: 347 Source(s); 8 Source Group(s); and

494 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)						
POINT	SV009	457444	4960359	230	1.44	11.40	49.94	54.86	179.99	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457376	4960369	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.08	0.67	2.93	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.01	0.09	0.38	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.01	0.10	0.42	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.11	0.86	3.75	7.32	24.02	0.610	2.001	0.	-273.	-460.	32.34	6366.14	20026
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.02	0.07	7.62	25.00	0.250	0.820	0.	-273.	-460.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.01	0.06	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.03	0.14	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.04	0.30	1.32	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.04	0.31	1.36	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.01	0.07	0.31	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.02	0.15	0.66	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.01	0.08	0.35	3.66	12.01	1.040	3.412	294.	21.	70.	13.76	2708.66	24767
POINT	SV99_R	457647	4960431	230	0.01	0.07	0.31	8.38	27.49	3.000	9.843	0.	-273.	-460.	12.99	2557.09	194557
POINT	SV98_R	457522	4960508	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV97_R	457526	4960519	230	0.00	0.02	0.07	11.58	37.99	3.960	12.992	0.	-273.	-460.	9.77	1923.23	254965
POINT	SV03_R	457514	4960520	230	0.06	0.51	2.22	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.10	0.76	3.34	10.00	32.81	1.070	3.510	294.	21.	70.	16.65	3277.56	31723
POINT	SV27_R	457341	4960476	230	0.02	0.17	0.76	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.01	0.08	0.35	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.02	0.13	0.56	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	21.64	71.00	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.03	0.24	1.04	12.00	39.37	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.07	0.54	2.36	15.24	50.00	0.200	0.656	771.	498.	928.	69.7013720.47	4640	
VOLUME	L0000899	457384	4960323	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000900	457392	4960330	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000901	457399	4960336	230	0.00	0.00	0.00	2.29	7.51	4.610	1.070						
VOLUME	L0000902	457419	4960340	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000903	457432	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000904	457446	4960341	230	0.00	0.00	0.00	2.29	7.51	6.130	1.070						
VOLUME	L0000905	457452	4960335	230	0.00	0.00	0.00	2.29	7.51	4.910	1.070						
VOLUME	L0000906	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000907	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000908	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000909	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000910	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000911	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000912	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						

VOLUME	L0000913	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070
VOLUME	L0000914	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000915	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000916	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000917	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000918	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000919	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000920	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000921	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000922	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000923	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070
VOLUME	L0000924	457456	4960434	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000925	457467	4960436	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000926	457479	4960438	230	0.00	0.00	0.00	2.29	7.51	5.570	1.070
VOLUME	L0000927	457494	4960441	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000928	457510	4960443	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000929	457525	4960445	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000930	457541	4960446	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000931	457556	4960448	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000932	457572	4960450	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000933	457587	4960452	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000934	457602	4960454	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000935	457618	4960456	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000936	457633	4960458	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000937	457649	4960460	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0000938	457664	4960462	230	0.00	0.00	0.00	2.29	7.51	7.220	1.070
VOLUME	L0001373	457386	4960515	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001374	457400	4960518	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001375	457415	4960521	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001376	457429	4960524	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001377	457443	4960527	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001378	457458	4960530	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001379	457472	4960532	230	0.00	0.01	0.03	2.29	7.51	6.800	1.070 *HROFDY*
VOLUME	L0001380	457487	4960535	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001381	457502	4960537	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001382	457516	4960539	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001383	457531	4960541	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001384	457546	4960543	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001385	457561	4960545	230	0.00	0.01	0.03	2.29	7.51	6.970	1.070 *HROFDY*
VOLUME	L0001386	457575	4960543	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001387	457589	4960539	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001388	457603	4960536	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001389	457617	4960532	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001390	457631	4960529	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001391	457645	4960525	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001392	457659	4960521	230	0.00	0.01	0.03	2.29	7.51	6.730	1.070 *HROFDY*
VOLUME	L0001393	457349	4960531	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001394	457343	4960525	230	0.00	0.00	0.00	2.29	7.51	3.800	1.070 *HROFDY*
VOLUME	L0001395	457331	4960521	230	0.00	0.00	0.00	2.29	7.51	5.990	1.070 *HROFDY*
VOLUME	L0001396	457329	4960510	230	0.00	0.00	0.01	2.29	7.51	7.060	1.070 *HROFDY*
VOLUME	L0001397	457577	4960528	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001398	457590	4960527	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001399	457604	4960525	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*
VOLUME	L0001400	457618	4960524	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470 *HROFDY*

VOLUME	L0001401	457631	4960523	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001402	457645	4960522	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001403	457659	4960521	230	0.00	0.00	0.00	2.29	7.51	6.400	0.470	*HROFDY*
VOLUME	L0001369	457662	4960524	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001370	457660	4960538	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001371	457658	4960553	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0001372	457656	4960567	230	0.00	0.01	0.03	2.29	7.51	6.660	1.070	*HROFDY*
VOLUME	L0000974	457516	4960437	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000975	457527	4960441	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000976	457538	4960445	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000977	457549	4960449	230	0.00	0.00	0.01	2.29	7.51	5.510	1.070	*HROFDY*
VOLUME	L0000978	457563	4960451	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000979	457578	4960453	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000980	457592	4960455	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000981	457607	4960456	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000982	457622	4960458	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000983	457636	4960459	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000984	457651	4960461	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000985	457665	4960462	230	0.00	0.00	0.01	2.29	7.51	6.790	1.070	*HROFDY*
VOLUME	L0000986	457256	4960304	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000987	457262	4960318	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000988	457268	4960332	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000989	457274	4960345	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000990	457280	4960359	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000991	457287	4960373	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000992	457293	4960386	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000993	457299	4960400	230	0.00	0.01	0.06	2.29	7.51	6.980	1.070	*HROFDY*
VOLUME	L0000994	457312	4960406	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000995	457328	4960408	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000996	457344	4960410	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000997	457359	4960413	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000998	457375	4960415	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0000999	457391	4960417	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001000	457406	4960420	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001001	457422	4960422	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001002	457437	4960425	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001003	457453	4960427	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001004	457469	4960429	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001005	457484	4960432	230	0.00	0.02	0.07	2.29	7.51	7.360	1.070	*HROFDY*
VOLUME	L0001195	457275	4960485	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001196	457276	4960482	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001197	457276	4960478	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001198	457277	4960475	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001199	457277	4960472	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001200	457278	4960468	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001201	457279	4960465	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001202	457279	4960462	230	0.08	0.62	2.69	37.49	123.00	1.560	12.140	
VOLUME	L0001227	457395	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001228	457396	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001229	457398	4960513	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001230	457399	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001231	457401	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001232	457402	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	
VOLUME	L0001233	457404	4960514	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160	

VOLUME	L0001234	457405	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001235	457407	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001236	457409	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001237	457410	4960515	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001238	457412	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001239	457413	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001240	457415	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001241	457416	4960516	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001242	457418	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001243	457419	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001244	457421	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001245	457422	4960517	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001246	457424	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001247	457426	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001248	457427	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001249	457429	4960518	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001250	457430	4960519	230	0.01	0.09	0.40	38.40	125.98	0.730	17.160
VOLUME	L0001251	457451	4960517	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001252	457451	4960515	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001253	457451	4960513	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001254	457452	4960512	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001255	457452	4960510	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001256	457452	4960508	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001257	457453	4960506	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001258	457453	4960504	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001259	457453	4960502	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001260	457453	4960500	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001261	457454	4960498	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001262	457454	4960496	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001263	457454	4960495	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001264	457455	4960493	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001265	457455	4960491	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001266	457455	4960489	230	0.01	0.10	0.42	24.99	81.99	0.890	9.400
VOLUME	L0001267	457456	4960487	230	0.01	0.10	0.42	24.99	81.99		

VOLUME	L0001288	457499	4960518	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.01	0.09	0.38	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001294	457460	4960409	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001295	457460	4960407	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001296	457460	4960406	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001297	457461	4960404	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001298	457461	4960403	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001299	457461	4960401	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001300	457461	4960400	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001301	457462	4960398	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001302	457462	4960397	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001303	457462	4960395	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001304	457462	4960394	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001305	457463	4960392	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001306	457463	4960391	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001307	457463	4960389	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001308	457463	4960387	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001309	457464	4960386	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001310	457464	4960384	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001311	457464	4960383	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001312	457464	4960381	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001313	457465	4960380	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001314	457465	4960378	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001315	457465	4960377	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001316	457465	4960375	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001317	457466	4960374	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001318	457466	4960372	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001319	457466	4960371	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001320	457466	4960369	230	0.02	0.12	0.54	22.86	75.00	0.720	11.020
VOLUME	L0001321	457467	4960368	230	0.02	0.12	0.54	22.86	75.00	0	

VOLUME	L0001342	457603	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001343	457604	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001344	457606	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001345	457607	4960435	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001346	457609	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001347	457610	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001348	457612	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001349	457613	4960436	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001350	457615	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001351	457616	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001352	457618	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001353	457619	4960437	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001354	457621	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001355	457622	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001356	457624	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001357	457625	4960438	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001358	457627	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001359	457628	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
VOLUME	L0001360	457630	4960439	230	0.01	0.09	0.40	30.48	100.00	0.720	14.230
TOTAL					4.54	36.00	157.68				
SUMP=					2.19	17.39	76.16				
SUMV=					2.35	18.61	81.52				

*** AERMOD - VERSION 07026 ***

*** AERA - Dispersion Factors for Rahr SV10_R and SV03_R

06/07/07

16:20:13

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**This Run Includes: 171 Source(s); 14 Source Group(s); and 1145 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)						
POINT	SV009	457444	4960359	230	1.00	7.94	34.76	67.06	220.01	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457376	4960369	230	1.00	7.94	34.76	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	1.00	7.94	34.76	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	1.00	7.94	34.76	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	1.00	7.94	34.76	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	1.00	7.94	34.76	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	1.00	7.94	34.76	7.32	24.02	1.070	3.510	-264.	-537.	-934.	10.56	2078.74	20120
POINT	SV008	457413	4960340	230	1.00	7.94	34.76	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	1.00	7.94	34.76	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	1.00	7.94	34.76	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	1.00	7.94	34.76	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.00	0.00	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.00	0.00	0.00	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.00	0.00	0.00	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.00	0.00	0.00	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.00	0.00	0.00	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.00	0.00	0.00	3.70	12.14	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV99_R	457647	4960431	230	0.00	0.00	0.00	8.38	27.49	3.000	9.843	0.	-273.	-460.	13.35	2627.95	199949
POINT	SV98_R	457522	4960508	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV97_R	457526	4960519	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV03_R	457514	4960520	230	1.00	7.94	34.76	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.00	0.00	0.00	10.00	32.81	1.070	3.510	294.	21.	70.	0.00	0.00	0
POINT	SV27_R	457341	4960476	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.00	0.00	0.00	15.24	50.00	0.200	0.656	771.	498.	928.	69.7013720.47	4640	
VOLUME	L0001195	457275	4960485	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001196	457276	4960482	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001197	457276	4960478	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001198	457277	4960475	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001199	457277	4960472	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001200	457278	4960468	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001201	457279	4960465	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001202	457279	4960462	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140						
VOLUME	L0001227	457395	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001228	457396	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001229	457398	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001230	457399	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001231	457401	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001232	457402	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						

VOLUME	L0001233	457404	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001234	457405	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001235	457407	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001236	457409	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001237	457410	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001238	457412	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001239	457413	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001240	457415	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001241	457416	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001242	457418	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001243	457419	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001244	457421	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001245	457422	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001246	457424	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001247	457426	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001248	457427	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001249	457429	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001250	457430	4960519	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001251	457451	4960517	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001252	457451	4960515	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001253	457451	4960513	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001254	457452	4960512	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001255	457452	4960510	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001256	457452	4960508	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001257	457453	4960506	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001258	457453	4960504	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001259	457453	4960502	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001260	457453	4960500	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001261	457454	4960498	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001262	457454	4960496	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001263	457454	4960495	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001264	457455	4960493	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001265	457455	4960491	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001266	457455	4960489	230	0.00	0.00	0.00	24.99	81.99		

VOLUME	L0001287	457499	4960520	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001288	457499	4960518	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001294	457460	4960409	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001295	457460	4960407	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001296	457460	4960406	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001297	457461	4960404	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001298	457461	4960403	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001299	457461	4960401	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001300	457461	4960400	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001301	457462	4960398	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001302	457462	4960397	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001303	457462	4960395	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001304	457462	4960394	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001305	457463	4960392	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001306	457463	4960391	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001307	457463	4960389	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001308	457463	4960387	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001309	457464	4960386	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001310	457464	4960384	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001311	457464	4960383	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001312	457464	4960381	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001313	457465	4960380	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001314	457465	4960378	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001315	457465	4960377	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001316	457465	4960375	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001317	457466	4960374	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001318	457466	4960372	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001319	457466	4960371	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001320	457466	4960369	230	0.00	0.00	0.00	22.86	75.00	0	

VOLUME	L0001341	457601	4960434	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001342	457603	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001343	457604	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001344	457606	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001345	457607	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001346	457609	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001347	457610	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001348	457612	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001349	457613	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001350	457615	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001351	457616	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001352	457618	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001353	457619	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001354	457621	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001355	457622	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001356	457624	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001357	457625	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001358	457627	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001359	457628	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001360	457630	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
TOTAL					13.00	103.17	451.88				
SUMP=					12.00	95.24	417.12				
SUMV=					1.00	7.94	34.76				

*** AERMOD - VERSION 07026 ***

*** AERA - Dispersion Factors for Farmer Risk

06/08/07

10:19:41

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**This Run Includes: 171 Source(s); 4 Source Group(s); and 1632 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	1.00	7.94	34.76	67.06	220.01	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457376	4960369	230	0.00	0.00	0.00	7.93	26.02	0.840	2.756	-264.	-537.	-934.	0.00	0.00	0
POINT	SV006	457381	4960335	230	0.00	0.00	0.00	7.93	26.02	0.840	2.756	-264.	-537.	-934.	0.00	0.00	0
POINT	SV007	457388	4960350	230	0.00	0.00	0.00	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.00	0.00	0.00	7.32	24.02	1.070	3.510	-264.	-537.	-934.	0.00	0.00	0
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.00	0.00	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.00	0.00	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.00	0.00	0.00	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.00	0.00	0.00	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.00	0.00	0.00	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.00	0.00	0.00	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.00	0.00	0.00	3.70	12.14	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV99_R	457647	4960431	230	0.00	0.00	0.00	8.38	27.49	3.000	9.843	0.	-273.	-460.	13.35	2627.95	199949
POINT	SV98_R	457522	4960508	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV97_R	457526	4960519	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV03_R	457514	4960520	230	1.00	7.94	34.76	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.00	0.00	0.00	10.00	32.81	1.070	3.510	294.	21.	70.	0.00	0.00	0
POINT	SV27_R	457341	4960476	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.00	0.00	0.00	15.24	50.00	0.200	0.656	771.	498.	928.	69.7013720.47	4640	
VOLUME	L0001195	457275	4960485	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001196	457276	4960482	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001197	457276	4960478	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001198	457277	4960475	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001199	457277	4960472	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001200	457278	4960468	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001201	457279	4960465	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001202	457279	4960462	230	0.13	0.99	4.34	37.49	123.00	1.560	12.140	*SEASON*					
VOLUME	L0001227	457395	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001228	457396	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001229	457398	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001230	457399	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001231	457401	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001232	457402	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						

VOLUME	L0001233	457404	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001234	457405	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001235	457407	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001236	457409	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001237	457410	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001238	457412	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001239	457413	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001240	457415	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001241	457416	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001242	457418	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001243	457419	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001244	457421	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001245	457422	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001246	457424	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001247	457426	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001248	457427	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001249	457429	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001250	457430	4960519	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001251	457451	4960517	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001252	457451	4960515	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001253	457451	4960513	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001254	457452	4960512	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001255	457452	4960510	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001256	457452	4960508	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001257	457453	4960506	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001258	457453	4960504	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001259	457453	4960502	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001260	457453	4960500	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001261	457454	4960498	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001262	457454	4960496	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001263	457454	4960495	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001264	457455	4960493	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001265	457455	4960491	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001266	457455	4960489	230	0.00	0.00	0.00	24.99	81.99		

VOLUME	L0001287	457499	4960520	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001288	457499	4960518	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001294	457460	4960409	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001295	457460	4960407	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001296	457460	4960406	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001297	457461	4960404	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001298	457461	4960403	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001299	457461	4960401	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001300	457461	4960400	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001301	457462	4960398	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001302	457462	4960397	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001303	457462	4960395	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001304	457462	4960394	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001305	457463	4960392	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001306	457463	4960391	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001307	457463	4960389	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001308	457463	4960387	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001309	457464	4960386	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001310	457464	4960384	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001311	457464	4960383	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001312	457464	4960381	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001313	457465	4960380	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001314	457465	4960378	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001315	457465	4960377	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001316	457465	4960375	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001317	457466	4960374	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001318	457466	4960372	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001319	457466	4960371	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001320	457466	4960369	230	0.00	0.00	0.00	22.86	75.00	0	

VOLUME	L0001341	457601	4960434	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001342	457603	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001343	457604	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001344	457606	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001345	457607	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001346	457609	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001347	457610	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001348	457612	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001349	457613	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001350	457615	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001351	457616	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001352	457618	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001353	457619	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001354	457621	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001355	457622	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001356	457624	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001357	457625	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001358	457627	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001359	457628	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001360	457630	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
TOTAL					3.00	23.81	104.28				
SUMP=					2.00	15.87	69.52				
SUMV=					1.00	7.94	34.76				

*** AERMOD - VERSION 07026 *** *** Refined Risk Model Acute 1-hr Inhalation (AilKODA) ***

*** 06/07/07 ***
*** 13:44:29 ***

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**This Run Includes: 171 Source(s); 4 Source Group(s); and 1145 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)						
POINT	SV009	457444	4960359	230	0.04	0.31	1.36	67.06	220.01	1.980	6.496	450.	177.	350.	19.60	3858.27	127874
POINT	SV005	457376	4960369	230	0.00	0.00	0.00	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV006	457381	4960335	230	0.00	0.00	0.00	7.93	26.02	0.840	2.756	-264.	-537.	-934.	13.21	2600.39	15512
POINT	SV007	457388	4960350	230	0.00	0.00	0.00	19.51	64.01	0.180	0.591	-264.	-537.	-934.	0.00	0.00	0
POINT	SV010	457401	4960388	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV011	457390	4960386	230	0.00	0.00	0.00	16.76	54.99	6.710	22.014	0.	-273.	-460.	9.68	1905.51	725298
POINT	SV001	457294	4960334	230	0.00	0.00	0.00	7.32	24.02	1.070	3.510	-264.	-537.	-934.	10.56	2078.74	20120
POINT	SV008	457413	4960340	230	0.00	0.00	0.00	20.12	66.01	0.200	0.656	-269.	-542.	-944.	0.00	0.00	0
POINT	SV002	457292	4960334	230	0.00	0.00	0.00	7.62	25.00	0.250	0.820	-264.	-537.	-934.	0.00	0.00	0
POINT	SV003	457321	4960335	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV004	457322	4960326	230	0.00	0.00	0.00	26.82	87.99	0.720	2.362	0.	-273.	-460.	0.00	0.00	0
POINT	SV01_R	457527	4960514	230	0.00	0.00	0.00	10.06	33.01	0.000	0.000	0.	-273.	-460.	0.00	0.00	0
POINT	SV02_R	457526	4960521	230	0.00	0.00	0.00	11.58	37.99	0.310	1.017	444.	171.	340.	0.00	0.00	0
POINT	SV11_R	457455	4960475	230	0.00	0.00	0.00	19.20	62.99	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV13_R	457468	4960477	230	0.00	0.00	0.00	17.70	58.07	1.220	4.003	294.	21.	70.	0.00	0.00	0
POINT	SV12_R	457427	4960470	230	0.00	0.00	0.00	24.10	79.07	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV29_R	457369	4960459	230	0.00	0.00	0.00	31.40	103.02	0.200	0.656	294.	21.	70.	0.00	0.00	0
POINT	SV28_R	457318	4960481	230	0.00	0.00	0.00	3.70	12.14	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV99_R	457647	4960431	230	0.00	0.00	0.00	8.38	27.49	3.000	9.843	0.	-273.	-460.	13.35	2627.95	199949
POINT	SV98_R	457522	4960508	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV97_R	457526	4960519	230	0.00	0.00	0.00	11.58	37.99	3.960	12.992	0.	-273.	-460.	7.66	1507.87	199901
POINT	SV03_R	457514	4960520	230	0.00	0.01	0.06	23.47	77.00	4.310	14.140	322.	49.	120.	19.26	3791.34	595397
POINT	SV14_R	457338	4960490	230	0.00	0.00	0.00	10.00	32.81	1.070	3.510	294.	21.	70.	0.00	0.00	0
POINT	SV27_R	457341	4960476	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV26_R	457340	4960481	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV25_R	457339	4960485	230	0.00	0.00	0.00	10.00	32.81	1.040	3.412	294.	21.	70.	0.00	0.00	0
POINT	SV21_R	457509	4960436	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV17_R	457510	4960431	230	0.00	0.00	0.00	4.11	13.48	0.720	2.362	294.	21.	70.	0.00	0.00	0
POINT	SV18_R	457204	4960385	230	0.00	0.00	0.00	15.24	50.00	0.200	0.656	771.	498.	928.	69.7013720.47	4640	
VOLUME	L0001195	457275	4960485	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001196	457276	4960482	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001197	457276	4960478	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001198	457277	4960475	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001199	457277	4960472	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001200	457278	4960468	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001201	457279	4960465	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001202	457279	4960462	230	0.00	0.00	0.01	37.49	123.00	1.560	12.140						
VOLUME	L0001227	457395	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001228	457396	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001229	457398	4960513	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001230	457399	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001231	457401	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						
VOLUME	L0001232	457402	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160						

VOLUME	L0001233	457404	4960514	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001234	457405	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001235	457407	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001236	457409	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001237	457410	4960515	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001238	457412	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001239	457413	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001240	457415	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001241	457416	4960516	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001242	457418	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001243	457419	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001244	457421	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001245	457422	4960517	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001246	457424	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001247	457426	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001248	457427	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001249	457429	4960518	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001250	457430	4960519	230	0.00	0.00	0.00	38.40	125.98	0.730	17.160
VOLUME	L0001251	457451	4960517	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001252	457451	4960515	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001253	457451	4960513	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001254	457452	4960512	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001255	457452	4960510	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001256	457452	4960508	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001257	457453	4960506	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001258	457453	4960504	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001259	457453	4960502	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001260	457453	4960500	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001261	457454	4960498	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001262	457454	4960496	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001263	457454	4960495	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001264	457455	4960493	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001265	457455	4960491	230	0.00	0.00	0.00	24.99	81.99	0.890	9.400
VOLUME	L0001266	457455	4960489	230	0.00	0.00	0.00	24.99	81.99		

VOLUME	L0001287	457499	4960520	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001288	457499	4960518	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001289	457500	4960517	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001290	457500	4960515	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001291	457500	4960513	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001292	457500	4960512	230	0.00	0.00	0.00	23.16	75.98	0.760	13.260
VOLUME	L0001293	457460	4960410	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001294	457460	4960409	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001295	457460	4960407	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001296	457460	4960406	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001297	457461	4960404	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001298	457461	4960403	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001299	457461	4960401	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001300	457461	4960400	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001301	457462	4960398	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001302	457462	4960397	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001303	457462	4960395	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001304	457462	4960394	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001305	457463	4960392	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001306	457463	4960391	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001307	457463	4960389	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001308	457463	4960387	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001309	457464	4960386	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001310	457464	4960384	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001311	457464	4960383	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001312	457464	4960381	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001313	457465	4960380	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001314	457465	4960378	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001315	457465	4960377	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001316	457465	4960375	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001317	457466	4960374	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001318	457466	4960372	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001319	457466	4960371	230	0.00	0.00	0.00	22.86	75.00	0.720	11.020
VOLUME	L0001320	457466	4960369	230	0.00	0.00	0.00	22.86	75.00	0	

VOLUME	L0001341	457601	4960434	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001342	457603	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001343	457604	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001344	457606	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001345	457607	4960435	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001346	457609	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001347	457610	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001348	457612	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001349	457613	4960436	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001350	457615	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001351	457616	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001352	457618	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001353	457619	4960437	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001354	457621	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001355	457622	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001356	457624	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001357	457625	4960438	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001358	457627	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001359	457628	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
VOLUME	L0001360	457630	4960439	230	0.00	0.00	0.00	30.48	100.00	0.720	14.230
TOTAL					0.04	0.35	1.53				
SUMP=					0.04	0.33	1.43				
SUMV=					0.00	0.02	0.10				

Appendix II: “As-Built” Modeling Parameters Used for Koda Energy and Rahr Malting in Shakopee, Scott County, Minnesota

Hardcopy Report Submittals

September 26, 2008 letter from Mr. Paul Kramer, President of Koda Energy, to Mr. Brad Moore, MPCA Commissioner, titled:

“Koda Energy LLC Air Emission Permit No. 13900114-001, As-Built Stack and Physical Layout Changes”.

Attachment: “Addendum to June 2007 Air Modeling Impact Assessment of Proposed Koda Energy Cogeneration Facility, Koda Energy, Shakopee, Minnesota”, prepared by Golder Associates, September 2008.

Note: PSD PM10 increment modeling only.

Electronic (CD-ROM) Submittals

“Koda Energy Sept. 2008 Model”, prepared by Golder Associates Inc., received Sept. 29, 2008.

Full Details

See CD-ROM for full data details.

Summary Report (this is a computer-generated “REPORT” with simple headers, simple sources, and selected parameters)

The summary report is for simple (constant) emission rates and corresponding stack/source parameters. It does not fully document details regarding model control options, emission rates with varying emission scalars, corresponding stack/source parameters, wind speed categories for wind erosion, building profile input program (BPIP) outputs, various output selections (e.g., EVENTFIL, MULTYEAR, PLOTFILE, POSTFILE, MAXIFILE), applicable “INCLUDED” file information, receptor grids, or other special features described in the following EPA modeling user guides:

Old AERMOD (04300): <http://www.epa.gov/scram001/7thconf/aermod/aermodugb.pdf>

New AERMOD (07026): http://www.epa.gov/scram001/dispersion_prefrec.htm#aermod

Note: If any difference exists between summary values in this appendix vs. the hardcopy report vs. the electronic CD-ROM modeled values, the electronic CD-ROM modeled values prevail.

For Your Information

This submittal covers only the PSD PM10 increment modeling.

*** AERMOD - VERSION 07026 ***

*** Koda Energy PSD Scenario A - September 2008 Remodel Using As-Built ***

09/22/08

08:20:14

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**This Run Includes: 54 Source Group(s); 5 Source Group(s); and 850 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOUR	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	0.86	6.84	29.96	67.06	220.01	1.980	6.496	436.	163.	325.	11.42	2248.03	74506
POINT	SV005	457375	4960372	230	0.08	0.67	2.93	7.00	22.97	0.840	2.756	-8.	-281.	-475.	13.21	2600.39	15512
POINT	SV006	457380	4960334	230	0.08	0.67	2.93	7.00	22.97	0.840	2.756	-8.	-281.	-475.	13.21	2600.39	15512
POINT	SV007	457388	4960351	230	0.01	0.09	0.38	16.15	52.99	0.230	0.755	-8.	-282.	-475.	0.00	0.00	0
POINT	SV010	457433	4960394	230	0.01	0.09	0.41	10.82	35.50	7.320	24.016	0.	-273.	-460.	8.13	1600.39	724951
POINT	SV011	457422	4960392	230	0.01	0.09	0.41	10.82	35.50	7.320	24.016	0.	-273.	-460.	8.13	1600.39	724951
POINT	SV001	457286	4960322	230	0.11	0.86	3.75	7.32	24.02	1.070	3.510	-8.	-281.	-475.	10.55	2076.77	20101
POINT	SV008	457415	4960341	230	0.00	0.00	0.00	23.77	77.99	0.370	1.214	-14.	-287.	-485.	0.00	0.00	0
VOLUME	L0000138	457384	4960323	230	0.00	0.00	0.01	2.29	7.51	4.610	1.070						
VOLUME	L0000139	457392	4960330	230	0.00	0.00	0.01	2.29	7.51	4.610	1.070						
VOLUME	L0000140	457399	4960336	230	0.00	0.00	0.01	2.29	7.51	4.610	1.070						
VOLUME	L0000141	457419	4960340	230	0.00	0.01	0.04	2.29	7.51	6.130	1.070						
VOLUME	L0000142	457432	4960341	230	0.00	0.01	0.04	2.29	7.51	6.130	1.070						
VOLUME	L0000143	457446	4960341	230	0.00	0.01	0.04	2.29	7.51	6.130	1.070						
VOLUME	L0000144	457452	4960335	230	0.00	0.01	0.04	2.29	7.51	4.910	1.070						
VOLUME	L0000178	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000179	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000180	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000181	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000182	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000183	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000184	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000185	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000186	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000187	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000188	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000189	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000190	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000191	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000192	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000193	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000194	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000195	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000196	457459	4960434	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000197	457474	4960436	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000198	457488	4960438	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000199	457503	4960440	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000200	457518	4960442	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000201	457533	4960444	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000202	457548	4960446	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000203	457563	4960448	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000204	457578	4960451	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000205	457593	4960453	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						

VOLUME	L0000206	457607	4960455	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000207	457622	4960457	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000208	457637	4960459	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000209	457652	4960461	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000210	457667	4960463	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	VSBIN1	457307	4960327	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN2	457318	4960329	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN3	457329	4960330	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN4	457341	4960332	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN5	457325	4960344	230	0.01	0.05	0.21	22.56	74.02	1.710	9.070
VOLUME	VSBIN6	457336	4960345	230	0.01	0.05	0.21	22.56	74.02	1.710	9.070
TOTAL					1.20	9.49	41.58				
SUMP=					1.17	9.31	40.78				
SUMV=					0.02	0.18	0.81				

*** AERMOD - VERSION 07026 ***

*** Koda Energy PSD Scenario B - September 2008 Remodel Using As-Builts ***

09/22/08

06:24:00

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**This Run Includes: 54 Source(s); 5 Source Group(s); and

850 Receptor(s)

AREA	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	XDIM (M)	YDIM (M)						
VOLUME	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	SYI (M)	SZI (M)						
AREACIRC	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	RADIUS	#VERTS.						
AREAPOLY	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	#VERTS.	SZI (M)						
POINT	SRCIDNT	EASTING	NORTHING	ELEV (M)	G/SEC	#/HOURL	T/YEAR	HGT (M)	HGT (FT)	DIA (M)	DIA (FT)	DEG (K)	DEG (C)	DEG (F)	VS (M/S)	VS (F/M)	ACFM
POINT	SV009	457444	4960359	230	1.44	11.40	49.94	67.06	220.01	1.980	6.496	451.	178.	352.	19.60	3858.27	127874
POINT	SV005	457375	4960372	230	0.08	0.67	2.93	7.00	22.97	0.840	2.756	-8.	-281.	-475.	13.21	2600.39	15512
POINT	SV006	457380	4960334	230	0.08	0.67	2.93	7.00	22.97	0.840	2.756	-8.	-281.	-475.	13.21	2600.39	15512
POINT	SV007	457388	4960351	230	0.01	0.09	0.38	16.15	52.99	0.230	0.755	-8.	-282.	-475.	0.00	0.00	0
POINT	SV010	457433	4960394	230	0.01	0.09	0.41	10.82	35.50	7.320	24.016	0.	-273.	-460.	8.13	1600.39	724951
POINT	SV011	457422	4960392	230	0.01	0.09	0.41	10.82	35.50	7.320	24.016	0.	-273.	-460.	8.13	1600.39	724951
POINT	SV001	457286	4960322	230	0.11	0.86	3.75	7.32	24.02	1.070	3.510	-8.	-281.	-475.	10.55	2076.77	20101
POINT	SV008	457415	4960341	230	0.00	0.00	0.00	23.77	77.99	0.370	1.214	-14.	-287.	-485.	0.00	0.00	0
VOLUME	L0000138	457384	4960323	230	0.00	0.00	0.01	2.29	7.51	4.610	1.070						
VOLUME	L0000139	457392	4960330	230	0.00	0.00	0.01	2.29	7.51	4.610	1.070						
VOLUME	L0000140	457399	4960336	230	0.00	0.00	0.01	2.29	7.51	4.610	1.070						
VOLUME	L0000141	457419	4960340	230	0.00	0.01	0.04	2.29	7.51	6.130	1.070						
VOLUME	L0000142	457432	4960341	230	0.00	0.01	0.04	2.29	7.51	6.130	1.070						
VOLUME	L0000143	457446	4960341	230	0.00	0.01	0.04	2.29	7.51	6.130	1.070						
VOLUME	L0000144	457452	4960335	230	0.00	0.01	0.04	2.29	7.51	4.910	1.070						
VOLUME	L0000178	457257	4960304	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000179	457268	4960315	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000180	457278	4960327	230	0.00	0.00	0.01	2.29	7.51	7.340	1.070						
VOLUME	L0000181	457303	4960346	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000182	457303	4960359	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000183	457303	4960373	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000184	457302	4960386	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000185	457302	4960400	230	0.00	0.00	0.00	2.29	7.51	6.280	1.070						
VOLUME	L0000186	457313	4960406	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000187	457327	4960409	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000188	457342	4960412	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000189	457356	4960414	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000190	457371	4960417	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000191	457386	4960420	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000192	457400	4960423	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000193	457415	4960426	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000194	457429	4960429	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000195	457444	4960431	230	0.00	0.00	0.00	2.29	7.51	6.900	1.070						
VOLUME	L0000196	457459	4960434	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000197	457474	4960436	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000198	457488	4960438	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000199	457503	4960440	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000200	457518	4960442	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000201	457533	4960444	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000202	457548	4960446	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000203	457563	4960448	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						
VOLUME	L0000204	457578	4960451	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070						

VOLUME	L0000205	457593	4960453	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000206	457607	4960455	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000207	457622	4960457	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000208	457637	4960459	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000209	457652	4960461	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	L0000210	457667	4960463	230	0.00	0.00	0.00	2.29	7.51	6.990	1.070
VOLUME	VSBIN1	457307	4960327	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN2	457318	4960329	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN3	457329	4960330	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN4	457341	4960332	230	0.00	0.00	0.02	22.56	74.02	1.710	9.070
VOLUME	VSBIN5	457325	4960344	230	0.01	0.05	0.21	22.56	74.02	1.710	9.070
VOLUME	VSBIN6	457336	4960345	230	0.01	0.05	0.21	22.56	74.02	1.710	9.070
TOTAL					1.77	14.06	61.56				
SUMP=					1.75	13.87	60.75				
SUMV=					0.02	0.18	0.81				

TECHNICAL SUPPORT DOCUMENT
For
AIR EMISSION PERMIT NO. 13900114-002

This technical support document (TSD) is intended for all parties interested in the permit and to meet the requirements that have been set forth by the federal and state regulations (40 CFR § 70.7(a)(5) and Minn. R. 7007.0850, subp. 1). The purpose of this document is to provide the legal and factual justification for each applicable requirement or policy decision considered in the preliminary determination to issue the permit.

1. General Information

1.1. Applicant and Stationary Source Location:

Owner/Operator Address and Phone Number	Facility Address (SIC Code: 4911)
Koda Energy, LLC 800 West First Avenue Shakopee, MN 55379 Contact: Mr. Paul Kramer, President Phone: 952-496-7002	Same

1.2. Description Of The Facility

Koda Energy is a limited liability corporation (LLC) co-owned by the Rahr Malting Company and the Shakopee Mdewakanton Sioux Community. Koda Energy will build a 308.18 MMbtu/hr combined heat and power biomass boiler to produce an average of 120,000 lbs/hour of steam for process heat at Rahr Malting and 17.8 MW of electricity. This combination of steam and electricity represents the total energy output. For example, the facility could produce more than 120,000 lbs/hr of steam, but than would concurrently produce less than 17.8 MW of electricity. Or the facility could produce more electricity, if it produced less steam.

Koda will control boiler nitrogen oxides (NO_x) with a low NO_x burner, Separated Over-Fire Air (SOFA), and a Selective Non-Catalytic Reduction System (SNCR). Particulate matter emissions will be controlled by a cyclone and electrostatic precipitator. Good combustion practices will control carbon monoxide (CO). Koda Energy will lease land for the project from the Rahr Malting Company.

Emissions will result from fuel handling and processing, fuel combustion, ash handling and disposal, and truck traffic.

1.3 Description of the Activities Allowed By This Permit Action

This permit authorizes some minor changes to the location, the stack heights, and the number of some of the particulate matter less than 10 um in size (PM₁₀) emission sources, that resulted from changes between the preliminary and final facility design. The 220 foot boiler stack remained 220 foot. These changes also result in a 0.33 ton per year PM₁₀ increase. The results of the air dispersion modeling demonstrate that these changes have minimal impact on the ambient air PM₁₀ concentration. Because modeling parameters are Title I permit conditions, a Minnesota major amendment is required to incorporate these changes. The new modeling parameters are incorporated into the permit appendix.

More specifically, emissions from the Rahr Malting blowline and fuel bin vents have been redistributed based on changes to the facility layout. The fuel bin vent emissions have been modified. In the previous design, the Rahr Blow line terminated in the fuel unloading building and had a separate baghouse and stack (SV002). Also ten fuel bins were included. The ten fuel bin vents were originally ducted to two stacks (SV003 and 004). The current design has the Rahr blow line terminating directly into either of the two fuel bins on the north side (bins 5 & 6). Also, the number of fuel bins has been reduced to six bins.

Furthermore, instead of being ducted to two stacks, four of the bins (1-4) have two bin vent filters and the remaining two bins (5 & 6) have five bin vent filters (to accommodate the Rahr blow line emissions). Because of the number of bin vents per bin, the emission rates for the fuel bins are modeled as one volume source per bin, released from a height of 74 feet.

Changes to this section from the June 2007 modeling include:

- SV002, 003, and 004 no longer exist;
- The number of fuel bins and fuel bin vents has changed. Because of the multiple bin vents installed, volume sources with a release height equal to the bin vent release height were used to model the emissions from the bin vents.
- Some of the locations and source parameters of the other stacks changed with the exception of the boiler stack (SV 009).

1.4. Facility Emissions:

Koda Emissions from All Sources (-001) in TPY

Activity	PM	PM ₁₀	NO _x	CO	SO _x	VOC	Single HAP	Total HAP
SV001 Truck Unloading	4.2071	3.856						
SV002 Blow Lines	0.0657	0.0657						
SV003 and 4, Fuel Transport	0.1126	0.1126						
SV005 and 6 Biomass Transport	5.8567	5.8567						
SV007 Ground Fuel Transport	0.3575	0.3575						
Boiler SV009	40.49	40.49	337	580	38.0*	22.4	9.0*	22.5*
Ash Handling SV008	0.0025	0.0025						
Traffic	0.6103	0.1189						
Total	51.70	50.85	337	580	38.0*	22.4	9.0*	22.5*

Koda Emissions from All Sources (-002) in TPY

Activity	PM	PM ₁₀	NO _x	CO	SO _x	VOC	Single HAP	Total HAP
SV001 Truck Unloading	4.2071	3.856						
SV002 – not built								
SV003 and 004, Fuel Transport – not built								
SV011-016 (Fuel Bin Vents**)	0.509	0.509						
SV005 and 6 Biomass Transport	5.8567	5.8567						
SV007 Ground Fuel Transport	0.3575	0.3575						
Boiler SV009	40.49	40.49	337	580	38.0*	22.4	9.0*	22.5*
Ash Handling SV008	0.0025	0.0025						
Traffic	0.6103	0.1189						
Total	52.03	51.18	337	580	38.0*	22.4	9.0*	22.5*

* Limited emissions, by permit.

** The fuel bin vents emit the blowlines that were originally designed to emit through SV 002 and the fuel bin that were originally designed to emit through SV 003 and SV 004.

Facility Classification

Classification	Major/Affected Source	Synthetic Minor	Minor
PSD	X		
Part 70 Permit Program	X		
Part 63 NESHAP		X	

2. Regulatory and/or Statutory Basis

New Source Review

The facility remains a major source under new source review.

Part 70 Permit Program

The facility remains a major source under the Part 70 permit program.

New Source Performance Standards (NSPS)

The biomass fired boiler remains subject to 40 CFR pt. 60, subp. Db. Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units

National Emission Standards for Hazardous Air Pollutants (NESHAP)

Koda Energy previously accepted limits in its permits for hazardous air pollutants that render the source a synthetic minor one under 40 CFR pt. 63. Therefore, the facility remains a nonmajor source of hazardous air pollutants and no NESHAP standards apply.

Minnesota State Rules

- Minn. R. 7011.0715 Standards of Performance for Post-1969 Industrial Process Equipment
- Minn. R. 7011.0150 – Prevention of Airborne PM
- Minn. R. 7011.1005 – Standards of Performance for Dry Bulk Agricultural Commodity Facilities

Compliance Assurance Monitoring, (CAM) 40 CFR Part 64

The boiler remains subject to requirements set forth in 40 CFR pt. 64 for particulate matter and PM₁₀.

The facility also has potential emissions for NO_x and CO that exceed major source levels, and so the boiler is potentially subject to CAM requirements for those pollutants. However, 40 CFR § 64.2. Applicability, exempts sources with continuous emission monitors. That section specifically exempts as follows:

“(vi) Emission limitations or standards for which a part 70 or 71 permit specifies a continuous compliance determination method, as defined in §64.1. The exemption provided in this paragraph (b)(1)(vi) shall not apply if the applicable compliance method includes an assumed control device emission reduction factor that could be affected by the actual operation and maintenance of the control device (such as a surface coating line controlled by an incinerator for which continuous compliance is determined by calculating emissions on the basis of coating records and an assumed control device efficiency factor based on an initial performance test; in this example, this part would apply to the control device and capture system, but not to the remaining elements of the coating line, such as raw material usage).”

Environmental Review

Minnesota Rules require the completion of an environmental assessment worksheet (EAW) if potential emissions increase by more than 250 tons per year for criteria pollutants. An EAW is not required for this permit action (-002).

Regulatory Overview of the Modification

- GP 003 is subject to the Industrial Process Equipment Rule. (Minn. R. 7011.0715 Standards of Performance for Post-1969 Industrial Process Equipment) GP 003 consists of the fuel filter vents.

3. Technical Information

1. The permit contains a Title I condition pertaining to modeling. Modeling parameters were included in the initial permit appendix (-001). As a result of construction (“as built”) changes, some of the modeling parameters had minor changes. The new modeling parameters needed to be incorporated into the permit appendix. Because modeling parameters are addressed as a Title I condition, a Minnesota major modification was required.
2. SV 002, 003, and 004 were not built. The blow line emissions are routed into the fuel bins. The initial application called for a baghouse control of the blow line. The fuel bins are controlled by filtered vents. In this permit action, the fuel bin vents were entered as SV 011-016. SV 011-014 actually each have 2 bin vent filters. SV 015 and SV 016 each have 5 bin vent filters. The modeling grouped the bin vent filters as is reflected in SV 011-016. For example, SV 011 reflects 2 bin vent filters and includes the emissions from both bin vent filters. Minn. R. 7007.0100, subp. 9a. defines an “Emission point” as “the stack, chimney, vent, or other functionally equivalent opening whereby emissions are exhausted to the atmosphere.” Accordingly, the bin vent filters were assigned stack vent numbers as opposed to be treated as a fugitives. It is noted that the bin vent filters are passive. That is they only emit when the pressure inside the fuel bin increases, due to fuel loading.

3.1 Calculations of Potential to Emit

As proposed by the facility, the following are this permit action’s calculations:

The new emissions from the fuel bins are calculated as follows:

Total emissions from SV003 and 004 in previous design = 0.028 lb/hr (Table D-14 in June 2007 modeling report)

New emissions for each of the fuel bins due to fuel loading: $0.028 \text{ lb/hr} / 6 \text{ bins} = 0.0045 \text{ lb/hr per bin}$

The maximum hourly throughput of the Rahr blow line is base on the emission factor for bin vents from AP-42 Table 9.9.1-1:.

$(28,000 \text{ lb/hr}) / (2,000 \text{ lb/ton}) * (0.0063 \text{ lb PM}_{10}/\text{ton}) = 0.0882 \text{ lb/hr}$

In permit action 001, it was assumed that baghouses would be used. Hence, a factor of 0.005 gr/dscf was used. In this permit action, there will be no baghouses. Hence, an AP-42 emission factor was used instead. The emission factor was taken from AP-42 9.9.1-1. This results in a small difference in emissions.

Each of the two north bins (5 and 6) can additionally accept the Rahr blow line emissions:
 $(0.0882 \text{ lb PM}_{10}/\text{hr}) / 2 \text{ bins} = 0.0441 \text{ lb PM}_{10}/\text{hr-bin}$

New emission rates for fuel bins:

FUEL BIN	FUEL BIN EMISSIONS (lb/hr)	RAHR BLOW LINE EMISSIONS (lb/hr)	TOTAL EMISSIONS (lb/hr)
1	0.0045	0	0.0045
2	0.0045	0	0.0045
3	0.0045	0	0.0045
4	0.0045	0	0.0045
5	0.0045	0.0441	0.0486
6	0.0045	0.0441	0.0486

3.2 Periodic Monitoring

In accordance with the Clean Air Act, it is the responsibility of the owner or operator of a facility to have sufficient knowledge of the facility to certify that the facility is in compliance with all applicable requirements.

In evaluating the monitoring included in the permit, the MPCA considers the following:

- The likelihood of violating the applicable requirements;
- Whether add-on controls are necessary to meet the emission limits;
- The variability of emissions over time;
- The type of monitoring, process, maintenance, or control equipment data already available for the emission unit;
- The technical and economic feasibility of possible periodic monitoring methods; and
- The kind of monitoring found on similar units elsewhere.

There were no changes to the periodic monitoring requirements already contained in the permit (001).

3.3 Comments Received

Public Notice Period: 10/26/08 – 11/24/08

No public comments were received.

EPA 45-day Review Period: 10/26/08 - 12/9/08

No EPA comments were received.

4. Conclusion

Based on the information provided by Koda Energy, the MPCA has reasonable assurance that the proposed operation of the emission facility, as described in the Air Emission Permit No. 13900114-002, and this TSD, will not cause or contribute to a violation of applicable federal regulations and Minnesota Rules.

Staff Members on Permit Team: Bruce Braaten (permit writer/engineer)
Dennis Becker (modeling)
Marshall Cole (peer reviewer)

AQ File No. 4271; DQ 2264

Attachments: 1. Facility Description and CD-01 Forms