San Joaquin Valley
AIR POLLUTION CONTROL DISTRICT

HEALTHY AIR LIVING™

MAR 03 2016

Mr. Kevin Rebelo
Morning Star Packing Company
13448 S Volta Road
Los Banos, CA 93635

Re: Proposed Authority to Construct/Certificate of Conformity (Minor Mod)
District Facility # N-1326
Project # N-1153207

Dear Mr. Rebelo:

Enclosed for your review is the District's analysis of an application for Authority to Construct for the facility identified above. You requested that a Certificate of Conformity with the procedural requirements of 40 CFR Part 70 be issued with this project. Change Rule 4320 alternate monitoring plan for boiler N-1326-12-3.

After addressing all comments made during the 45-day EPA comment period, the District intends to issue the Authority to Construct with a Certificate of Conformity. Prior to operating with modifications authorized by the Authority to Construct, the facility must submit an application to modify the Title V permit as an administrative amendment, in accordance with District Rule 2520, Section 11.5.

If you have any questions, please contact Mr. Nick Peirce, Permit Services Manager, at (209) 557-6400.

Thank you for your cooperation in this matter.

Sincerely,

Arnaud Marjollet
Director of Permit Services

Enclosures

cc: Gerardo C. Rios, EPA (w/enclosure) via email

Seyed Sadredin
Executive Director/Air Pollution Control Officer

Northern Region
4800 Enterprise Way
Modesto, CA 95356-8718
Tel: (209) 557-6400 FAX: (209) 557-6475

Central Region (Main Office)
1990 E. Gettysburg Avenue
Fresno, CA 93726-0244
Tel: (559) 230-6000 FAX: (559) 230-6061

Southern Region
34946 Flyover Court
Bakersfield, CA 93308-9725
Tel: 661-392-5500 FAX: 661-392-5585

www.valleyair.org www.healthyairliving.com

Printed on recycled paper.

San Joaquin Valley Air Pollution Control District

Authority to Construct Application Review

Change Boiler Monitoring

Facility Name:	Morning Star Packing	Date:	February 24, 2016
Mailing Address:	13448 S. Volta Road Los Banos, CA 93634	Engineer:	Rupi Gill
		Lead Engineer:	Nick Peirce
Contact Person:	Kevin Rebelo		
Telephone:	209-827-7854		
Fax:	209-826-8266		
E-Mail:	krebelo@morningstarco.com		
Application #(s):	N-1326-12-4		
Project #:	N1153207		
Deemed Complete:	November 23, 2015		

I. Proposal

The primary business of Morning Star Packing is to process agricultural products. Morning Star has submitted an Authority to Construct (ATC) application to change the existing boiler Rule 4320 (Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater) alternate monitoring scheme from monthly portable analyzer monitoring to monitoring flue gas recirculation (FGR) valve position on a weekly basis. The existing monitoring scheme and the proposed replacement plan are both approved Rule 4320 monitoring plans per District Policy SSP 1105 (Alternate Monitoring).

This project is to only modify the monitoring requirements for this unit. The proposal will not result in any change in emissions from the unit. Pursuant to District FYI 111 #2 (see Appendix C), modifying monitoring requirements, provided the change does not lessen the stringency of an emissions limit and does not change the method of "operation" of the emission unit are not subject to the District Rule 2201 (New and Modified Stationary Source Review Rule) requirements.

Morning Star Packing received their Title V Permit on July 16, 2013. The applicant is proposing to change from monthly monitoring with a portable analyzer to weekly monitoring of the FGR valve setting, therefore the proposal will not result in reduction in monitoring frequency, thus the proposed action is not a significant modification to their TV permit. This modification can be classified as a Title V minor modification pursuant to Rule 2520, and can be processed with a Certificate of Conformity (COC). Since the facility has specifically requested that this project be processed in that manner, the 45-day EPA comment period will be satisfied prior to the issuance of the Authority to Construct. Morning Star Company must apply to administratively amend their Title V permit.

II. Applicable Rules

Rule 2201	New and Modified Stationary Source Review Rule (4/21/11)
Rule 2410	Prevention of Significant Deterioration (6/16/11)
Rule 2520	Federally Mandated Operating Permits (6/21/01)
Rule 4001	New Source Performance Standards (4/14/99)
Rule 4002	National Emissions Standards for Hazardous Air Pollutants (5/20/04)
Rule 4101	Visible Emissions (2/17/05)
Rule 4102	Nuisance (12/17/92)
Rule 4201	Particulate Matter Concentration (12/17/92)
Rule 4301	Fuel Burning Equipment (12/17/92)
Rule 4305	Boilers, Steam Generators and Process Heaters – Phase II (8/21/03)
Rule 4306	Boilers, Steam Generators and Process Heaters – Phase III (3/17/05)
Rule 4320	Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters Greater than 5.0 MMBtu/hr (10/16/08)
Rule 4801	Sulfur Compounds (12/17/92)
CH&SC 41700	Health Risk Assessment
CH&SC 42301.6	School Notice

Public Resources Code 21000-21177: California Environmental Quality Act (CEQA)
California Code of Regulations, Title 14, Division 6, Chapter 3, Sections 15000-15387: CEQA Guidelines

III. Project Location

The facility is located at 13448 South Volta Road in Los Banos, CA. The equipment is not located within 1,000 feet of the outer boundary of a K-12 school. Therefore, the public notification requirement of California Health and Safety Code 42301.6 is not applicable to this project.

IV. Process Description

The boiler is utilized to heat water, which is utilized in various processes for food processing at the facility.

V. Equipment Listing

Pre-Project Equipment Description:

N-1326-12-3: 118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER

Proposed Modification:[1]

N-1326-12-4: MODIFICATION OF 118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #C-RMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION SYSTEM: REPLACE PORTABLE ANALYZER MONITORING WITH MONITORING FLUE GAS RECIRCULATION (FGR) DAMPER VALVE POSITION

Post Project Equipment Description:[1]

N-1326-12-4: 118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #C-RMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION SYSTEM.

VI. Emission Control Technology Evaluation

The unit is equipped with an ultra low-NO_X burner that is capable of achieving NOx and CO emissions of 7 ppmvd @ 3% O2 and 40 ppmvd @ 3% O2, respectively, current permit conditions and is fired exclusively on PUC-quality natural gas.

Low-NO_X burners reduce NO_X formation by producing lower flame temperatures (and longer flames) than conventional burners. Conventional burners thoroughly mix all the fuel and air in a single stage just prior to combustion, whereas low-NO_X burners delay the mixing of fuel and air by introducing the fuel (or sometimes the air) in multiple stages. Generally, in the first combustion stage, the air-fuel mixture is fuel rich. In a fuel rich environment, all the oxygen will be consumed in reactions with the fuel, leaving no excess oxygen available to react with nitrogen to produce thermal NO_X. In the secondary and tertiary stages, the combustion zone is maintained in a fuel-lean environment. The excess air in these stages helps to reduce the flame temperature so that the reaction between the excess oxygen with nitrogen is minimized.

Flue gas recirculation (FGR) reduces NO_X emissions by recirculating a percentage of the exhaust gas back into the windbox. This reduces the oxygen concentration in the air-fuel mixture and regulates the combustion process, lowering the combustion temperature. The lowered availability of oxygen in conjunction with lowered combustion temperature reduces the formation of NO_X.

Sulfur Control

The use of PUC-quality natural gas will ensure compliance with the PM and SOx requirements of Rule 4320.

[1] The model # for this boiler will be corrected from #D-RMB to #C-RMB and reference will be added that reflects that the burner is served by an induced flue gas recirculation system.

VII. General Calculations

Rule 2201 New Source Review

This project does not meet the criteria for a Rule 2201 Modification, as defined in Section 3.26, and is not subject to the requirements of Rule 2201. Therefore, formal calculations for Rule 2201 are not necessary and no further discussion is required.

Rule 2410 Prevention of Significant Deterioration

The intent of this Rule is to incorporate the federal PSD rule requirements of Title 40 Code of Federal Regulations (40 CFR) Part 52.21 into the District's Rules and Regulations by incorporating the federal requirements by reference. The prevention of significant deterioration (PSD) program is a construction permitting program for new major stationary sources and major modifications to existing major stationary sources located in areas classified as attainment or in areas that are unclassifiable for any criteria air pollutant.

Section 4.0 states that an owner or operator must obtain a PSD permit pursuant to this Rule before beginning actual construction of a new major stationary source, a major modification, or a plantwide applicability limitation (PAL) major modification, as defined in 40 CFR 52.21(b).

This facility is an existing stationary source. Pursuant to Section 52.21(2)(i), a major modification at an existing stationary source means any physical change in or change in the method of operation of a major stationary source that would result in: a significant emissions increase (as defined in paragraph (b)(40) of this section) of a regulated NSR pollutant (as defined in paragraph (b)(50) of this section); and a significant net emissions increase of that pollutant from the major stationary source.

Within this project, the facility is proposing to modify the monitoring requirements. The proposed changes do not require the facility to make any physical changes to their equipment or changes in their method(s) of operation. Therefore, the proposed project cannot result in a major modification under PSD and the requirements of this rule are not applicable.

VIII. COMPLIANCE

Rule 2201 New and Modified Stationary Source Review Rule

As noted in Sections I and VII of this engineering evaluation, the proposed modification does not constitute an NSR modification; Pursuant to section 3.26 of District Rule 2201, a modification is defined as:

3.26.1.1 Any change in hours of operation, production rate, or method of operation of an existing emissions unit, which would necessitate a change in permit conditions.

The proposed modification does not result in a change in the hours of operation, production rate or method of operation.

3.26.1.2 Any structural change or addition to an existing emissions unit which would necessitate a change in permit conditions. Routine replacement shall not be considered to be a structural change.

The proposed modification does not constitute a structural change or addition to an existing emissions unit.

3.26.1.3 An increase in emissions from an emissions unit caused by a modification of the Stationary Source when the emissions unit is not subject to a daily emissions limitation.

The proposed modification does not result in an increase in emissions from any emissions unit.

3.26.1.4 Addition of any new emissions unit which is subject to District permitting requirements.

The proposed modification does not result in the addition of any new emissions units.

3.26.1.5 A change in a permit term or condition proposed by an applicant to obtain an exemption from an applicable requirement to which the source would otherwise be subject.

The proposed modification does not necessitate any change to permit conditions or description that would result in an exemption from an applicable requirement.

As discussed above, the proposal does not meet any of the criteria for a modification. Therefore, it is not subject to the requirements of District Rule 2201.

Rule 2410 Prevention of Significant Deterioration

As discussed above within this project, the facility is proposing to modify the monitoring requirements. The proposed changes do not require the facility to make any physical changes to their equipment or changes in their method(s) of operation. Therefore, the proposed project cannot result in a major modification under PSD and the requirements of this rule are not applicable.

Rule 2520 Federally Mandated Operating Permits

This facility is subject to this Rule, and has received their Title V Operating Permit. The proposed modification is a Minor Modification to the Title V Permit.

In accordance with Rule 2520, these modifications:

1. Do not violate requirements of any applicable federally enforceable local or federal requirement;

2. Do not relax monitoring, reporting, or recordkeeping requirements in the permit and are not significant changes in existing monitoring permit terms or conditions;
3. Do not require or change a case-by-case determination of an emission limitation or other standard, or a source-specific determination for temporary sources of ambient impacts, or a visibility or increment analysis;
4. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include:

    a. A federally enforceable emission cap assumed to avoid classification as a modification under any provisions of Title I of the Federal Clean Air Act; and
    b. An alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Federal Clean Air Act; and
5. Are not Title I modifications as defined in District Rule 2520 or modifications as defined in section 111 or 112 of the Federal Clean Air Act; and
6. Do not seek to consolidate overlapping applicable requirements.

As discussed above, the facility has applied for a Certificate of Conformity (COC). Therefore, the facility must apply to modify their Title V permit with an administrative amendment, prior to operating with the proposed modifications. Continued compliance with this rule is expected. The facility may operate under the ATC upon submittal of the Title V administrative amendment/minor modification application.

Rule 4001 New Source Performance Standards (NSPS)
Rule 4002 National Emission Standards for Hazardous Air Pollutants (NESHAPs)
Rule 4101 Visible Emissions
Rule 4102 Nuisance
Rule 4201 Particulate Matter Concentration
Rule 4301 Fuel Burning Equipment
Rule 4801 Sulfur Compounds

Compliance with these rules was addressed in detail in the most recent TV permit renewal project N-1121933 (July 16, 2013) and previous permitting actions and continues compliance is expected. The modified permit unit is subject to a variety of requirements in fulfillment of these rules, which are expressly stated in the existing Permit to Operation (PTO), included in Appendix B of this document. These requirements are not being modified as part of this proposed project, and the applicable permit conditions will not be changed. No further discussion is required.

Rule 4305 Boilers, Steam Generators and Process Heaters – Phase 2
Rule 4306 Boilers, Steam Generators and Process Heaters – Phase 3

The units for this project is a natural gas-fired with a maximum heat input greater than 5.0 MMBtu/hr. Pursuant to Section 2.0 of District Rule 4305, and Section 2.0 of District Rule 4306, these units are subject to both District Rule 4305, *Boilers, Steam Generators and Process Heaters – Phase 2,* and District Rule 4306, *Boilers, Steam Generators and Process Heaters – Phase 3.*

In addition, the units for this project are also subject to District Rule 4320, *Advance Emissions Reduction Options For Boilers, Steam Generators, and Process Heaters greater than 5.0 MMBtu/hr.*

Since emissions limits of District Rule 4320 and all other requirements are equivalent or more stringent than District Rules 4305 and 4306 requirements, compliance with District Rule 4320 requirements will satisfy the requirements of District Rules 4305 and 4306. Therefore, compliance with District Rules 4305 and 4306 requirements is expected and no further discussion is required.

Rule 4320 Advanced Emission Reduction Options for Boilers, Steam Generators, and Process Heaters greater than 5.0 MMBtu/hr

This project only entails change in the pre-approved alternate monitoring requirements, therefore, this change will be discussed below in detail.

Compliance with all other provisions of this rule was addressed in detail in the most recent TV permit renewal project N-1121933 (July 16, 2013) and previous permitting actions and continues compliance is expected. The modified permit unit is subject to a variety of requirements in fulfillment of this rule, which are expressly stated in the existing Permit to Operation (PTO), included in Appendix B of this document. These requirements are not being modified as part of this proposed project, and the applicable permit conditions will not be changed.

Section 5.7, Monitoring Provisions

Section 5.7.1 requires that permit units subject to District Rule 4320, Section 5.2 emissions limits shall either install and maintain an APCO approved Continuous Emission Monitoring (CEM) equipment for NO_X, CO and O_2, or implement an APCO-approved alternate monitoring system.

The following describes the proposed operating conditions revisions for this project. The existing conditions that will be deleted are shown in ~~**strikethrough**~~ followed by additions in **underline**.

Current Monitoring Conditions PTO N-1326-12-3:

- ~~The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320]~~

- ~~If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection,~~

~~the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320]~~

- ~~All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive minute period by either taking a cumulative 15 consecutive minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive minute period. [District Rules 4305, 4306, and 4320]~~

- ~~The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320]~~

Proposed Monitoring Conditions ATC N-1326-12-4:

- The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320]

- The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NO_X and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320]

- Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320]

- If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour

of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320]

- The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320]

- During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Y

- If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Y

Conclusion:

Conditions will be incorporated into the permit in order to ensure compliance with each section of this rule. Therefore, compliance with District Rule 4320 requirements is expected.

California Health & Safety Code 42301.6 (School Notice)

The District has verified that this site is not located within 1,000 feet of a school. Therefore, pursuant to California Health and Safety Code 42301.6, a school notice is not required.

California Environmental Quality Act (CEQA)

Greenhouse Gas Significance Determination

The District's engineering evaluation (this document) demonstrates that the project would not result in an increase in project specific greenhouse gas emissions. The District therefore concludes that the project would have a less than cumulatively significant impact on global climate change.

District CEQA Findings

The California Environmental Quality Act (CEQA) requires each public agency to adopt objectives, criteria, and specific procedures consistent with CEQA Statutes and the CEQA Guidelines for administering its responsibilities under CEQA, including the orderly evaluation of projects and preparation of environmental documents. The San Joaquin Valley Unified Air Pollution Control District (District) adopted its *Environmental Review Guidelines* (ERG) in 2001. The basic purposes of CEQA are to:

- Inform governmental decision-makers and the public about the potential, significant environmental effects of proposed activities.
- Identify the ways that environmental damage can be avoided or significantly reduced.
- Prevent significant, avoidable damage to the environment by requiring changes in projects through the use of alternatives or mitigation measures when the governmental agency finds the changes to be feasible.
- Disclose to the public the reasons why a governmental agency approved the project in the manner the agency chose if significant environmental effects are involved.

The District performed an Engineering Evaluation (this document) for the proposed project and determined that the activity will occur at an existing facility and the project involves negligible expansion of the existing use. Furthermore, the District determined that the activity will not have a significant effect on the environment. The District finds that the activity is categorically exempt from the provisions of CEQA pursuant to CEQA Guideline § 15301 (Existing Facilities), and finds that the project is exempt per the general rule that CEQA applies only to projects which have the potential for causing a significant effect on the environment (CEQA Guidelines §15061(b)(3)).

IX. Recommendation

Compliance with all applicable rules and regulations is expected. Pending a successful EPA 45 day COC Noticing period, issue ATC N-1326-12-4 subject to the permit conditions on the attached draft ATC in **Appendix A**.

X. Billing Information

Annual Permit Fees			
Permit Number	Current Fee Schedule	New Fee Schedule	Annual Fee
N-1326-12-4	3020-02-H	3020-02-H	$1080.00

Appendixes

A: Draft ATC
B: Current PTO N-1326-12-3
C: District FYI 111
D: Compliance Certification

APPENDIX A
Draft ATC

San Joaquin Valley
Air Pollution Control District

AUTHORITY TO CONSTRUCT

DRAFT

PERMIT NO: N-1326-12-4

ISSUANCE DATE: DRAFT

LEGAL OWNER OR OPERATOR: MORNING STAR PACKING COMPANY
MAILING ADDRESS: 13448 S VOLTA RD
LOS BANOS, CA 93635

LOCATION: 13448 S VOLTA RD
LOS BANOS, CA 93635

EQUIPMENT DESCRIPTION:
MODIFICATION OF 118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #C-RMB ULTRA LOW NOX BURNER AND INDUCED FLUE GAS RECIRCULATION SYSTEM: REPLACE PORTABLE ANALYZER MONITORING WITH MONITORING FLUE GAS RECIRCULATION (FGR) DAMPER VALVE POSITION.

CONDITIONS

1. {1830} This Authority to Construct serves as a written certificate of conformity with the procedural requirements of 40 CFR 70.7 and 70.8 and with the compliance requirements of 40 CFR 70.6(c). [District Rule 2201] Federally Enforceable Through Title V Permit
2. {1831} Prior to operating with modifications authorized by this Authority to Construct, the facility shall submit an application to modify the Title V permit with an administrative amendment in accordance with District Rule 2520 Section 5.3.4. [District Rule 2520, 5.3.4] Federally Enforceable Through Title V Permit
3. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
4. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
5. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
6. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit

CONDITIONS CONTINUE ON NEXT PAGE

YOU MUST NOTIFY THE DISTRICT COMPLIANCE DIVISION AT (209) 557-6400 WHEN CONSTRUCTION IS COMPLETED AND PRIOR TO OPERATING THE EQUIPMENT OR MODIFICATIONS AUTHORIZED BY THIS AUTHORITY TO CONSTRUCT. This is NOT a PERMIT TO OPERATE. Approval or denial of a PERMIT TO OPERATE will be made after an inspection to verify that the equipment has been constructed in accordance with the approved plans, specifications and conditions of this Authority to Construct, and to determine if the equipment can be operated in compliance with all Rules and Regulations of the San Joaquin Valley Unified Air Pollution Control District. Unless construction has commenced pursuant to Rule 2050, this Authority to Construct shall expire and application shall be cancelled two years from the date of issuance. The applicant is responsible for complying with all laws, ordinances and regulations of all other governmental agencies which may pertain to the above equipment.

Seyed Sadredin, Executive Director / APCO

DRAFT

Arnaud Marjollet, Director of Permit Services

Northern Regional Office • 4800 Enterprise Way • Modesto, CA 95356-8718 • (209) 557-6400 • Fax (209) 557-6475

7. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
8. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
9. PM10 emissions shall not exceed 0.005 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
10. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
11. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
12. The flue gas recirculation valve(s) setting shall be monitored at least on a weekly basis. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last week. Records must be maintained of the dates of non-operation to validate extended monitoring frequencies. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
13. The acceptable settings for the flue gas recirculation valve(s) shall be established by source testing this unit or other representative units per Rule 4305 and as approved by the District. The normal range/level shall be that for which compliance with applicable NOx and CO emissions rates have been demonstrated through source testing at a similar firing rate. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
14. Normal range or level for the flue gas recirculation valve(s) settings shall be re-established during each source test required by this permit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
15. If the flue gas recirculation valve(s) setting is less than the normal range/level, the permittee shall return the flue gas recirculation valve(s) setting to the normal range/level as soon as possible, but no longer than 1 hour of operation after detection. If the flue gas recirculation valve(s) setting is not returned to the normal range/level within 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour, and conduct a source test within 60 days of the first exceedance, to demonstrate compliance with the applicable emission limits at the new flue gas recirculation valve(s) setting. A District-approved portable analyzer may be used in lieu of a source test to demonstrate compliance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of the performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
16. The permittee shall maintain records of the date and time of flue gas recirculation valve(s) settings, the observed setting, and the firing rate at the time of the flue gas recirculation valve(s) setting measurements. The records must also include a description of any corrective action taken to maintain the flue gas recirculation valve(s) setting within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
17. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
20. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

DRAFT

CONDITIONS CONTINUE ON NEXT PAGE

21. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

22. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

23. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

24. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

25. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

26. During the 36-month source testing interval, the owner/operator shall have unit tuned at least twice each calendar year, from four to eight months apart, in which it operates, by a technician that is qualified, to the satisfaction of the APCO, in accordance with the procedure described in Rule 4304 (Equipment Tuning Procedure for Boilers, Steam Generators, and Process Heaters). [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

27. If the unit does not operate throughout a continuous six-month period within a calendar year, only one tune-up is required for that calendar year. No tune-up is required for any unit that is not operated during that calendar year; this unit may be test fired to verify availability of the unit for its intended use, but once the test firing is completed the unit shall be shutdown. [District Rules 4306, and 4320] Federally Enforceable Through Title V Permit

28. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit

29. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit

30. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

31. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit

32. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit

33. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit

DRAFT

CONDITIONS CONTINUE ON NEXT PAGE

34. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit

35. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

DRAFT

APPENDIX B
Current PTO N-1326-12-3

San Joaquin Valley
Air Pollution Control District

PERMIT UNIT: N-1326-12-3 **EXPIRATION DATE:** 09/30/2017

EQUIPMENT DESCRIPTION:
118.6 MMBTU/HR NEBRASKA MODEL #NSF-81 NATURAL GAS-FIRED BOILER WITH A TODD/RADIAN CORPORATION MODEL #D-RMB ULTRA LOW NOX BURNER

PERMIT UNIT REQUIREMENTS

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. The unit shall only be fired on PUC-quality natural gas. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
3. A non-resettable, totalizing mass or volumetric fuel flow meter to measure the amount of natural gas combusted in this unit shall be utilized and maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
4. The combined NOx emissions from the boilers operating under permits to operate (PTOs) N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall not exceed 33,333 pounds per year on a 12-month rolling basis. [District Rule 2201] Federally Enforceable Through Title V Permit
5. NOx emissions shall not exceed 7 ppmvd @ 3% O2 or 0.008 lb/MMBtu referenced as NO2. [District Rules 2201, 4301, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
6. SOx emissions shall not exceed 0.00285 lb/MMBtu. [District Rules 2201 and 4301] Federally Enforceable Through Title V Permit
7. PM10 emissions shall not exceed 0.005 lb/MMBtu. [District Rules 2201 and 4320] Federally Enforceable Through Title V Permit
8. CO emissions shall not exceed 40 ppmvd @ 3% O2 or 0.0291 lb/MMBtu. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit
9. VOC emissions shall not exceed 10 ppmvd @ 3% O2 or 0.0042 lb/MMBtu. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The permittee shall monitor and record the stack concentration of NOx, CO, and O2 at least once every month (in which a source test is not performed) using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit unless monitoring has been performed within the last month. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

11. If either the NOx or CO concentrations corrected to 3% O2, as measured by the portable analyzer, exceed the allowable emissions concentration, the permittee shall return the emissions to within the acceptable range as soon as possible, but no longer than 1 hour of operation after detection. If the portable analyzer readings continue to exceed the allowable emissions concentration after 1 hour of operation after detection, the permittee shall notify the District within the following 1 hour and conduct a certified source test within 60 days of the first exceedance. In lieu of conducting a source test, the permittee may stipulate a violation has occurred, subject to enforcement action. The permittee must then correct the violation, show compliance has been re-established, and resume monitoring procedures. If the deviations are the result of a qualifying breakdown condition pursuant to Rule 1100, the permittee may fully comply with Rule 1100 in lieu of performing the notification and testing required by this condition. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

12. All alternate monitoring parameter emission readings shall be taken with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. The analyzer shall be calibrated, maintained, and operated in accordance with the manufacturer's specifications and recommendations or a protocol approved by the APCO. Emission readings taken shall be averaged over a 15 consecutive-minute period by either taking a cumulative 15 consecutive-minute sample reading or by taking at least five (5) readings, evenly spaced out over the 15 consecutive-minute period. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

13. The permittee shall maintain records of: (1) the date and time of NOx, CO, and O2 measurements, (2) the O2 concentration in percent and the measured NOx and CO concentrations corrected to 3% O2, (3) make and model of exhaust gas analyzer, (4) exhaust gas analyzer calibration records, and (5) a description of any corrective action taken to maintain the emissions within the acceptable range. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

14. Source testing to measure NOx and CO emissions from this unit shall be conducted at least once every twelve (12) months. After demonstrating compliance on two (2) consecutive annual source tests, the unit shall be tested not less than once every thirty-six (36) months. If the result of the 36-month source test demonstrates that the unit does not meet the applicable emission limits, the source testing frequency shall revert to at least once every twelve (12) months. [District Rules 2201, 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

15. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit

16. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit

17. The source test plan shall identify which basis (ppmv or lb/MMBtu) will be used to demonstrate compliance. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

18. NOx emissions for source test purposes shall be determined using EPA Method 7E or ARB Method 100 on a ppmv basis, or EPA Method 19 on a heat input basis. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

19. CO emissions for source test purposes shall be determined using EPA Method 10 or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

20. Stack gas oxygen (O2) shall be determined using EPA Method 3 or 3A or ARB Method 100. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

21. All emissions measurements shall be made with the unit operating either at conditions representative of normal operations or conditions specified in the Permit to Operate. No determination of compliance shall be established within two hours after a continuous period in which fuel flow to the unit is shut off for 30 minutes or longer, or within 30 minutes after a re-ignition as defined in Section 3.0 of District Rule 4306. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

22. For emissions source testing, the arithmetic average of three 30-consecutive-minute test runs shall apply. If two of three runs are above an applicable limit the test cannot be used to demonstrate compliance with an applicable limit. [District Rules 4305, 4306, and 4320] Federally Enforceable Through Title V Permit

23. Permittee shall determine sulfur content of combusted gas annually or shall demonstrate that the combusted gas is provided from a PUC or FERC regulated source. [District Rules 1081 and 4320] Federally Enforceable Through Title V Permit

24. Records of the cumulative NOx emissions determined on a 12-month rolling basis from the boilers operating under PTOs N-1326-1, N-1326-2, N-1326-3, N-1326-8, N-1326-11, N-1326-12, and N-1326-13 shall kept and shall be updated at least monthly. [District Rule 2201] Federally Enforceable Through Title V Permit

25. All records shall be maintained and retained on-site for a minimum of five (5) years, and shall be made available for District inspection upon request. [District Rules 1070, 2201, 4305, 4306 and 4320] Federally Enforceable Through Title V Permit

26. The NOx emission limit (as NO2) shall not exceed 0.10 lb/MMBtu. [40 CFR 60.44b(a)(1)(i)] Federally Enforceable Through Title V Permit

27. The NOx standards apply at all times including periods of startup, shutdown, or malfunction. Compliance with the NOx standard shall be determined on a 30-day rolling average basis. [40 CFR 60.44b(h) and (i), 40 CFR 60.46b(a)] Federally Enforceable Through Title V Permit

28. The owner or operator shall monitor the steam generating unit operating conditions and predict NOx emission rates as specified in a plan submitted pursuant to 40 CFR 60.49b(c). The plan shall identify the specific operating conditions to be monitored and the relationship between these operating conditions and NOx emission rates; include the data and information that the owner or operator used to identify the relationship between NOx emission rates and these operating conditions; and identify how these operating conditions, including steam generating unit load, will be monitored on an hourly basis during the period of operation of the unit; the quality assurance procedures or practices that will be employed to ensure that the data generated by monitoring these operating conditions will be representative and accurate; and the type and format of the records of these operating conditions, including steam generating unit load, that will be maintained by the owner or operator. [40 CFR 60.48b(g)(2) and 60.49b(c)] Federally Enforceable Through Title V Permit

29. The owner or operator shall record and maintain records of the amounts of fuel combusted during each day and calculate the annual capacity factor for natural gas for the reporting period. The annual capacity factor is determined on a 12-month rolling average basis. [40 CFR 60.49b(d)] Federally Enforceable Through Title V Permit

30. The owner or operator shall maintain records of the following information for each steam generating unit operating day: calendar date; the average hourly NOx emission rates (expressed as NO2) (lb/MMBtu heat input) measured or predicted; the 30-day average NOx emission rates (lb/MMBtu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days; identification of the steam generating unit operating days when the calculated 30-day average NOx emission rates are in excess of the NOx emissions standards under §60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken; identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken; identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data; and identification of "F" factor used for calculations, method of determination, and type of fuel combusted. [40 CFR 60.49b(g)] Federally Enforceable Through Title V Permit

APPENDIX C
Copy of FYI 111

SAN JOAQUIN VALLEY
AIR POLLUTION CONTROL DISTRICT

DATE: **May 31, 2005, Updated 4/4/06, 7/10/07**

TO: **Permit Services Staff**

FROM: **Thomas Goff, Permit Services Manager**

SUBJECT: **ATC, Title V, and NSR applicability determinations, FYI 111**

Determinations of ATC and Title V application requirements and Rule 2201 "modification" applicability for common equipment and permit changes.

	ATC req'd ?	TV application req'd ?	NSR mod ?	Description	Comments
1	No	Yes	No	adding monitoring or record keeping to a permit (provided the rule does not provide for any options for monitoring or recordkeeping)	Adding monitoring or recordkeeping are not changes in the method of "operation" of the emission unit even though monitoring/recordkeeping conditions must be changed.
2	Yes	Yes	No	modifying monitoring and record keeping requirements, provided the change does not lessen the stringency of an emissions limit	Changes to monitoring or recordkeeping are not changes in the method of "operation" of the emission unit even though monitoring/recordkeeping conditions must be changed.
3	No	Yes	No	imposing a TVP limit of < 0.5 psia on tanks (when existing TVP limit was solely to avoid previous version of Rule 4623) to avoid Rule 4623 requirements	Provided 1) no change in the method of operation and 2) no change in material introduced to the tank; and 3) condition change is being made solely to continue the permit exemption from Rule 4623.

APPENDIX D
Copy of Certificate of Conformity (COC)

San Joaquin Valley
Unified Air Pollution Control District

HEALTHY AIR LIVING

TITLE V MODIFICATION - COMPLIANCE CERTIFICATION FORM

I. TYPE OF PERMIT ACTION (Check appropriate box)

[ ] SIGNIFICANT PERMIT MODIFICATION
[X] MINOR PERMIT MODIFICATION
[ ] ADMINISTRATIVE AMENDMENT

COMPANY NAME: The Morning Star Company	FACILITY ID: N- 1326
1. Type of Organization:[ ] Corporation [X] Sole Ownership [ ] Government [ ] Partnership [ ] Utility	
2. Owner's Name: Chris Rufer	
3. Agent to the Owner: Kevin Rebelo	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and initial all circles for confirmation):

(KR) Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).

(KR) Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.

(KR) Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.

(KR) Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:

Signature of Responsible Official — Date: 10/8/2015

Kevin Rebelo
Name of Responsible Official (please print)

Steam Generating Colleague
Title of Responsible Official (please print)