State of Utah

SPENCER J. COX
Governor

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Lieutenant Governor

Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN106440005-23

March 10, 2023

Luke Freeman
Pitman Farms
1075 North Avenue
Sanger, CA 93657
mike.vance@pitmanfarms.com

Dear Mr. Freeman:

Re: Approval Order:
Modification to the Approval Order DAQE-AN106440003-21 to add a new equipment
Project Number: N106440005

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on July 22, 2022. Pitman Farms must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Sarah Foran**, who can be contacted at (385) 306-6724 or sforan@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter. No public comments were received on this action.

Sincerely,

Bryce C. Bird
Director

BCB:SF:jg

cc: Central Utah Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN106440005-23
Modification to the Approval Order DAQE-AN106440003-21 to add a new equipment

Prepared By
Sarah Foran, Engineer
(385) 306-6724
sforan@utah.gov

Issued to
Pitman Farms - Moroni Feed Mill

Issued On
March 10, 2023

Issued By

Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name
Pitman Farms

Source Name
Pitman Farms - Moroni Feed Mill

Mailing Address
1075 North Avenue
Sanger, CA 93657

Physical Address
15 East 1900 South Feed Mill Road
Moroni, UT 84646

Source Contact
Name Mike Vance
Phone (435) 436-8211
Email mike.vance@pitmanfarms.com

UTM Coordinates
449,940 m Easting
4,372,543 m Northing
Datum NAD83
UTM Zone 12

SIC code 2048 (Prepared Feed & Feed Ingredients for Animals & Fowls, Except Dogs & Cats)

SOURCE INFORMATION

General Description
Pitman Farms (Pitman) operates the Moroni Feed Mill. The feed mill operates to support local turkey farms. The Moroni Feed Mill takes in raw materials from truck deliveries such as corn, soybeans, grains, oils, poultry and meat meal, and feed supplements. These materials are offloaded via belly dump trucks into underground storage hoppers or at a bulk material storage shed. The material is then conveyed via belts and augers to an appropriate silo storage bin or sent to processing equipment. Processing includes grinding dry grain and mixing with oils and feed supplements to produce the desired product feed. Ground and mixed materials are also processed into pellets using steam from a natural gas-fired boiler. Finished products are stored in bins before being loaded into trucks for hauling to various animal and poultry feed operations.

NSR Classification
Minor Modification at Minor Source

Source Classification
Located in Attainment Area
Sanpete County
Airs Source Size: B

Applicable Federal Standards
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Project Description
Pitman has requested a modification to AO DAQE-AN106440003-21 to add a new natural gas fired boiler. The new 8.4 MMBtu/hr boiler will operate 8,760 hours per year. This change will result in an increase in on-site PTE.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO_2 Equivalent	4354.21	8717.00
Carbon Monoxide	3.03	6.14
Nitrogen Oxides	1.34	5.33
Particulate Matter - PM_{10}	0.27	9.78
Particulate Matter - $PM_{2.5}$	0.27	0.89
Sulfur Dioxide	0.02	0.10
Volatile Organic Compounds	0.20	0.43

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Formaldehyde (CAS #50000)	194	200
Generic HAPs (CAS #GHAPS)	0	4
Hexane (CAS #110543)	130	260
	Change (TPY)	**Total (TPY)**
Total HAPs	0.16	0.23

SECTION I: GENERAL PROVISIONS

I.1	All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
I.2	The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
I.3	Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
I.4	All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]

I.5	At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Director which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
I.6	The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
I.7	The owner/operator shall comply with UAC R307-150 Series. Emission Inventories. [R307-150]
I.8	The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	**Moroni Feed Mill**
II.A.2	**One Boiler (NEW)** Fuel: Natural Gas Rating: 8.4 MMBtu/hr Control: Low- NO_x (<30 ppm)
II.A.3	**One Boiler** Fuel: Natural Gas Rating: 8.4 MMBtu/hr
II.A.4	**One Emergency Generator** Capacity: 245 hp Fuel: Diesel MACT Applicability: Subpart ZZZZ
II.A.5	**One Roller Mill**
II.A.6	**One Pelletizer** Controlled by Cyclone
II.A.7	**Various Storage Silos** All Controlled by Bin Vents located at the top of silos

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	**Site Wide Requirements**
II.B.1.a	Visible emissions from the following emission points shall not exceed the following values: A. Natural gas boilers - 10% opacity B. Diesel Generator - 20% opacity C. All silo emission points - 10% opacity D. All drop points - 20% opacity E. Cyclone - 10% opacity. [R307-401-8]
II.B.1.a.1	Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-201-3]
II.B.1.b	The following operation and production limits shall not be exceeded: A. 250,000 tons of received grains per rolling 12-month period B. 150,000 tons of shipped grains per rolling 12-month period C. 150,000 tons of grains processed through the roller mill per rolling 12-month period D. 20,800 tons of grains processed through the pelletizer per rolling 12-month period [R307-401-8]
II.B.1.b.1	To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the last day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by scale house records, vendor receipts, or operational logs. The records of production shall be kept on a daily basis. [R307-401-8]
II.B.2	**Boiler Requirements**
II.B.2.a	The owner/operator shall only utilize natural gas as fuel in the boiler. [R307-401-8]
II.B.3	**Emergency Generator Requirements**
II.B.3.a	The owner/operator shall not operate the emergency generator engine on site for more than 100 hours per rolling 12-month period during non-emergency situations. There is no time limit on the use of the engine during emergencies. [40 CFR 63 Subpart ZZZZ, R307-401-8]

II.B.3.a.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the last day of each month using data from the previous 12 months. Records documenting the operation of the emergency engine shall be kept in a log and shall include the following: 1. The date the emergency engine was used 2. The duration of operation in hours 3. The reason for the emergency engine usage. [40 CFR 63 Subpart ZZZZ, R307-401-8]
II.B.3.a.2	To determine the duration of operation, the owner/operator shall install a non-resettable hour meter for the emergency engine. [40 CFR 63 Subpart ZZZZ, R307-401-8]
II.B.3.b	The owner/operator shall only use diesel fuel (fuel oil #1, #2, or diesel fuel oil additives) as a fuel source for the emergency engine on site. All diesel burned shall meet the definition of ultra-low sulfur diesel (ULSD), and contain no more than 15 ppm sulfur. [R307-401-8]
II.B.3.b.1	To demonstrate compliance with the diesel fuel requirements the owner/operator shall keep and maintain fuel purchase invoices. The fuel purchase invoices shall indicate that the diesel fuel meets the ULSD requirements, or the owner/operator shall obtain certification of sulfur content from the fuel supplier. [R307-401-8]
II.B.4	**Haul Road and Fugitive Dust Requirements**
II.B.4.a	Visible Emissions from the haul roads and other operational areas shall not exceed 20% opacity. [R307-401-8]
II.B.4.a.1	Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-401-8]
II.B.4.b	For paved and unpaved roads, the owner/operator shall spray with water all applicable haul roads and operational areas on site to maintain the opacity limits listed in this AO. If the temperature is below freezing, the owner/operator may stop spraying the haul roads with water. [R307-401-8]
II.B.4.b.1	For haul roads, records of water spraying shall be kept for all periods when the plant is in operation. The records shall include the following items: A. Date and time treatments were made B. Number of treatments made and quantity of water applied C. Rainfall amount received, if any D. Records of temperature, if the temperature is below freezing. [R307-401-8]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes	AO DAQE-AN106440003-21 dated April 7, 2021
Is Derived From	NOI dated July 22, 2022
Incorporates	Additional Information dated August 25, 2022
Incorporates	Additional Information dated October 11, 2022

ACRONYMS

The following lists commonly used acronyms and associated translations as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by Environmental Protection Agency to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO_2	Carbon Dioxide
CO_2e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO_x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM_{10}	Particulate matter less than 10 microns in size
$PM_{2.5}$	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO_2	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
VOC	Volatile organic compounds