



State of Utah

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Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN121320017-24

November 6, 2024

Christine Deedon
MOM Brands
20802 Kensington Boulevard
Lakeville, MN 55044
cjdeedon@postholdings.com

Dear Ms. Deedon:

Re: Approval Order: Administrative Amendment to Approval Order DAQE-AN121320016-22 to Remove Equipment and Correct Clerical Error
Project Number: N121320017

The attached Approval Order (AO) is issued pursuant to the Division of Air Quality conducting an administrative review of this source and its respective AO. MOM Brands must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Lucia Mason**, who can be contacted at (385) 707-7669 or lbmason@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.

Sincerely,

Bryce C. Bird
Director

BCB:LM:jg

cc: Bear River Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN121320017-24
Administrative Amendment to Approval Order
DAQE-AN121320016-22 to Remove Equipment and
Correct Clerical Error

Prepared By
Lucia Mason, Engineer
(385) 707-7669
lbmason@utah.gov

Issued to
MOM Brands - Cereal Breakfast Food Manufacturing Plant

Issued On
November 6, 2024

Issued By



Bryce C. Bird
Director
Division of Air Quality

TABLE OF CONTENTS

TITLE/SIGNATURE PAGE	1
GENERAL INFORMATION	3
CONTACT/LOCATION INFORMATION	3
SOURCE INFORMATION	3
General Description	3
NSR Classification	3
Source Classification	3
Applicable Federal Standards	3
Project Description.....	4
SUMMARY OF EMISSIONS.....	4
SECTION I: GENERAL PROVISIONS	4
SECTION II: PERMITTED EQUIPMENT	5
SECTION II: SPECIAL PROVISIONS.....	9
PERMIT HISTORY	12
ACRONYMS	13

GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

MOM Brands

Source Name

MOM Brands - Cereal Breakfast Food
Manufacturing Plant

Mailing Address

20802 Kensington Boulevard
Lakeville, MN 55044

Physical Address

1135 North 1000 West
Tremonton, UT 84337

Source Contact

Name: Christine Deedon
Phone: (435) 257-9213
Email: cjdeedon@postholdings.com

UTM Coordinates

401,550 m Easting
4,620,286 m Northing
Datum NAD83
UTM Zone 12

SIC code 2043 (Cereal Breakfast Foods)

SOURCE INFORMATION

General Description

Malt-O-Meal (MOM) Brands is a manufacturer of breakfast cereal foods, located in Tremonton, Box Elder County. After arriving at the plant, grains are made into products with puffing lines, sugar coating lines, and enrobing lines in four (4) different production areas. The cereal grains are baked; sheeted and puffed; flaked and milled; and extruded/puffed. Boilers, space heaters, dryers, and ovens are part of the plant. Baghouses, wet scrubbers, and cyclones control emissions from the operations at the plant.

NSR Classification

Administrative Amendment

Source Classification

Located in Salt Lake City UT PM_{2.5} NAA
Box Elder County
Airs Source Size: SM

Applicable Federal Standards

NSPS (Part 60), A: General Provisions
NSPS (Part 60), Dc: Standards of Performance for Small Industrial-Commercial-Institutional
Steam Generating Units

Project Description

Approval Order DAQE-AN121320016-22 contains a clerical error in Condition II.B.3.b. Condition II.B.3.b states, "The pressure drop across the externally-venting baghouse shall not be less than 0.5 inches of water column nor more than 10.0 inches of water column." This is an administrative amendment to update "baghouse" to "baghouses," as Condition II.B.3.b applies to multiple externally-vented baghouses on site.

Additionally, the DAQ is updating the language and format of the 2022 AO. MOM Brands has confirmed that the emergency pump engine listed as Equipment ID# II.A.47 in AO DAQE-AN121320016-22 is no longer in operation and has been removed from the site. No other changes in operations or equipment are taking place at the Cereal Breakfast Food Manufacturing Plant.

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	-1	51966.00
Carbon Monoxide	-0.02	45.08
Nitrogen Oxides	-0.01	48.30
Particulate Matter - PM ₁₀	0	49.37
Particulate Matter - PM _{2.5}	0	49.37
Sulfur Dioxide	0	0.27
Volatile Organic Compounds	0	59.37

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Benzene (Including Benzene From Gasoline) (CAS #71432)	0	2
Formaldehyde (CAS #50000)	0	64
Generic HAPs (CAS #GHAPS)	0	40
Hexane (CAS #110543)	0	1530
Toluene (CAS #108883)	0	3
	Change (TPY)	Total (TPY)
Total HAPs	0	0.82

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]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	Cereal Breakfast Food Manufacturing Plant A breakfast cereal production facility
II.A.2	ID: B1 and B2 Two (2) Boilers Capacity: 25.1 MMBtu/hr Fuel: Natural gas Control: low-NO _x burners NSPS Subpart Dc
II.A.3	ID: HW-1 One (1) direct-fired water heater Capacity: 12.5 MMBtu/hr Fuel: Natural gas Control: low-NO _x burners NSPS Subpart Dc
II.A.4	ID: HW-4 One (1) direct-fired water heater Capacity: 14.1 MMBtu/hr Fuel: Natural gas NSPS Subpart Dc

II.A.5	<p>ID: 1-1 One (1) dryer Capacity: 5.0 MMBtu/hr Fuel: Natural gas</p>
II.A.6	<p>ID: 1-2 and 1-3 Two (2) baking ovens Capacity: 21.6 MMBtu/hr Fuel: Natural gas</p>
II.A.7	<p>ID: 1-4 and 1-5 Two (2) general aspiration hoods Control: baghouse each Capacity: 4,657 dscfm for the general aspiration hood, 1,124 dscfm for the vacuum hood</p>
II.A.8	<p>ID: 2-1 One (1) extruders/dryers/coolers</p>
II.A.9	<p>ID: 2-2 One (1) puffer superheaters Capacity: 0.56 MMBtu/hr each Fuel: Natural gas</p>
II.A.10	<p>ID: 2-3 One (1) puffer units Capacity: 1.5 MMBtu/hr Fuel: Natural gas Control: two (2) cyclones in series</p>
II.A.11	<p>ID: 2-4 One (1) puffer aspiration hoods Control: baghouse Rating: 3,747 cfm</p>
II.A.12	<p>ID: 2-5 One (1) sugar concentrator</p>
II.A.13	<p>ID: 2-7 One (1) sugar coat dryer Capacity: 6 MMBtu/hr Fuel: Natural gas</p>
II.A.14	<p>ID: 2-8 One (1) sugar coat cooler</p>
II.A.15	<p>ID: 2-9, 2-10 Two (2) general aspiration systems Control: baghouse each (2 total) Rating: Unit 2-9: 899 cfm Unit 2-10: 3,747 cfm</p>

II.A.16	ID: 2-11 One (1) preheater Capacity: 1.5 MMBtu/hr Fuel: Natural gas Control: cyclone Rating: 2,143 cfm
II.A.17	ID: 2-13 One (1) rejects receiver filter Rating: 700 cfm
II.A.18	ID: 3-1 One (1) rotary dryer Capacity: 2 MMBtu/hr Fuel: Natural gas Control: Cyclone Rating: 4,711 cfm
II.A.19	ID: 3-2 One (1) rotary dryer Steam-heated Control: cyclone Rating: 3,456 cfm
II.A.20	ID: 3-3 One (1) rotary dryer Steam-heated Control: cyclone Rating: 3,452 cfm
II.A.21	ID: 3-4 One (1) rotary puffer/toaster dryer Capacity: 5 MMBtu/hr Fuel: Natural gas Control: cyclone Rating: 751 cfm
II.A.22	ID: 3-5 One (1) rotary puffer/toaster cooler Control: baghouse Rating: 4,565 cfm
II.A.23	ID: 3-8 One (1) aspiration filter Rating: 2,510 cfm
II.A.24	ID: 3-9 One (1) vacuum filter Control: baghouse Rating: 1,114 cfm
II.A.25	ID: 3-10 One (1) aspiration system Control: baghouse Rating: 4,657 cfm

II.A.26	ID: 3-11 One (1) mixer transfer filter Control: baghouse Rating: 594 cfm
II.A.27	ID: 3-12 One (1) blower filter Control: baghouse Rating: 2,037 cfm
II.A.28	ID: 4-1 One (1) mill room aspiration filter Rating: 12,484 cfm
II.A.29	ID: 4-2 One (1) mill room dryer
II.A.30	ID: 4-3 One (1) puffer/toaster unit Capacity: 5.4 MMBtu/hr Fuel: Natural gas Control: four (4) external dust suppression units Rating: 4,000 cfm
II.A.31	ID: 4-4 One (1) sugar coat steam-heated dryer
II.A.32	ID: 4-5 One (1) sugar coat cooler
II.A.33	ID: 4-6 One (1) sugar concentrator
II.A.34	ID: 4-7 One (1) sugar coat aspiration filter Control: baghouse Rating: 7,018 cfm
II.A.35	ID: 4-8 One (1) general aspiration system Control: baghouse Rating: 757 cfm
II.A.36	ID: 4-9 Line 4 bulk bin vent system Control: baghouse Rating: 1,150 cfm
II.A.37	ID: 4-10 One (1) cooling belt Control: two-stage dust separator Rating: 11,000 cfm
II.A.38	ID: 4-11 One (1) grain receiving aspiration Control: baghouse Rating: 7,000 cfm

II.A.39	ID: 4-12 One (1) grain recovery Control: baghouse Rating: 1,223 cfm
II.A.40	ID: 4-13 One (1) grain suction Control: baghouse Rating: 1,223 cfm
II.A.41	ID: 4-14 and 4-15 Two (2) puffer toaster exhaust vents Rating: 4,000 cfm each
II.A.42	ID: 4-16 One (1) sugar coat enrobing feeder Rating: 4,000 cfm
II.A.43	Baghouses Grain loading of 0.005 grains/dscf or less, each
II.A.44	ID: F1 Animal feed collection and loadout of unused grains Control: baghouse Ratings: -feed collection - 713 cfm, 446 cfm, 847 cfm, 1,115cfm -feed loadout filter - 4,788 cfm
II.A.45	Various Equipment Various ancillary equipment and activities, including office and lab operations, maintenance activities, etc.
II.A.46	Miscellaneous Forklift Trucks Miscellaneous propane or compressed natural gas-fueled forklift trucks For informational purposes only.
II.A.47	Various Boilers, Space Heaters, and Air Units Fuel: Natural gas Capacity: less than 5.0 MMBtu/hr each Source category: exempt equipment under R307-410-10

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Site-Wide Requirements
II.B.1.a	The owner/operator shall not produce more than 105,120 tons of cereal per rolling 12-month period. [R307-401-8]

II.B.1.a.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine cereal production using production records or sales records. B. Keep records of production for all periods when the plant is in operation. C. Record production on a daily basis. D. Calculate a new 12-month total by the last day of each month using data from the previous 12 months. <p>[R307-401-8]</p>
II.B.1.b	<p>The owner/operator shall not allow visible emissions on site to exceed 20% opacity unless otherwise specified in this AO. [R307-401-8]</p>
II.B.1.b.1	<p>The owner/operator shall observe the opacity of emissions from stationary sources according to 40 CFR 60, Appendix A, Method 9, unless otherwise specified in this AO. [R307-201-3]</p>
II.B.2	<p>The Natural Gas-Fired Equipment Requirements</p>
II.B.2.a	<p>The owner/operator shall not allow visible emissions from natural gas-fired equipment (including extruders, dryers, and coolers) on site to exceed 10% opacity. [R307-401-8]</p>
II.B.2.b	<p>The owner/operator shall not consume more than 850 million cubic feet of natural gas per rolling 12-month period. [R307-401-8]</p>
II.B.2.b.1	<p>The owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine natural gas consumption using the monthly gas bill. B. Keep records of consumption for all periods when the plant is in operation. C. Record consumption on a monthly basis. D. Calculate a new 12- month total by the last day of each month using data from the previous 12 months. <p>[R307-401-8]</p>
II.B.3	<p>Externally Vented Baghouse Requirements</p>
II.B.3.a	<p>The owner/operator shall use manometers or magnehelic pressure gauges to measure the static pressure drop across each baghouse. [R307-401-8]</p>
II.B.3.a.1	<p>Each pressure gauge shall be located such that an inspector/operator can safely read the indicators at any time. [R307-401-8]</p>
II.B.3.a.2	<p>During operation of each baghouse, the owner/operator shall maintain the static pressure drop across the baghouses between 0.5 and 10.0 inches of water column. [R307-401-8]</p>
II.B.3.b	<p>At least once every 12 months, the owner/operator shall calibrate each pressure gauge in accordance with the manufacturer's instructions or replace the gauges. [R307-401-8]</p>
II.B.3.b.1	<p>The owner/operator shall maintain records of the pressure gauge calibrations and replacements. [R307-401-8]</p>
II.B.3.c	<p>The owner/operator shall not allow visible emissions from the baghouses or fabric filter to exceed 10% opacity. [R307-401-8]</p>

II.B.4	VOC & HAP Requirements
II.B.4.a	<p>Excluding VOCs and HAPs from combustion or process sources, the owner/operator shall not emit more than the following from cereal flavorings, inks, and cleaning chemicals at the site:</p> <p>A. 45.00 tons per rolling 12-month period of VOCs.</p> <p>B. 0.59 tons per rolling 12-month period of all HAPs combined.</p> <p>[R307-401-8]</p>
II.B.4.a.1	<p>The owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. The owner/operator shall use a mass balance method to calculate emissions from evaporative sources. The owner/operator may use the following equations with applicable units to comply with the mass-balance method:</p> <p>VOCs = [% VOCs by Weight/100] x [Density] x [Volume Consumed].</p> <p>HAP = [% HAP by Weight/100] x [Density] x [Volume Consumed].</p> <p>[R307-401-8]</p>
II.B.4.a.2	<p>The owner/operator shall use a mass-balance method to quantify any amount of VOCs and HAPs reclaimed. The owner/operator shall subtract the amount of VOCs and HAPs reclaimed from the quantities calculated above to provide the monthly total emissions of VOCs and HAPs.</p> <p>[R307-401-8]</p>
II.B.4.a.3	<p>The owner/operator shall keep records each month of the following:</p> <p>A. The name (as per SDS) of the VOC- and HAP-emitting material.</p> <p>B. The maximum percent by weight of VOCs and each HAP in each material used.</p> <p>C. The density of each material used.</p> <p>D. The volume of each VOC- and HAP-emitting material used.</p> <p>E. The amount of VOCs and the amount of each HAP emitted from each material.</p> <p>F. The amount of VOCs and the amount of each HAP reclaimed and/or controlled from each material.</p> <p>G. The total amount of VOCs, the total amount of each HAP, and the total amount of all HAPs combined emitted from all materials (in tons).</p> <p>[R307-401-8]</p>
II.B.4.b	<p>The owner/operator shall comply with UAC R307-351. Graphic Arts. [R307-351]</p>

PERMIT HISTORY

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

Supersedes
Is Derived From
Incorporates
Incorporates

AO DAQE-AN121320016-22 dated February 23, 2022
Compliance Notification dated June 12, 2024
Additional Information dated August 12, 2024
Additional Information dated September 27, 2024

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