

Lane Regional Air Protection Agency Simple Air Contaminant Discharge Permit

Review Report

Attune Foods, LLC Permit No. 203141

2545 Prairie Road Eugene, Oregon 97402

Website: https://www.8avegranola.com/

Source Information:

Primary SIC	2043 – Cereal Breakfast Foods
Secondary SIC	
Primary NAICS	311230 – Breakfast Cereal Manufacturing
Secondary NAICS	

Source Categories (LRAPA title 37, Table 1)	Part B: 17: Cereal preparations and associated grain elevators 10,000 or more tons/year throughput
Public Notice Category	III

Compliance and Emissions Monitoring Requirements:

Unassigned Emissions	N
Emission Credits	N
Special Conditions	N
Compliance Schedule	N

Source Test [date(s)]	N
COMS	N
CEMS	N
Ambient monitoring	N

Reporting Requirements

Annual Report (due date)	February 15
SACC (due date)	N
GHG Report (due date)	N
Quarterly Report (due date)	N

Monthly Report (due dates)	N
Excess Emissions Report	Υ
Other Reports (due date)	N

Air Programs

NSPS (list subparts)	N
NESHAP (list subparts)	N
Compliance Assurance Monitoring (CAM)	N
Regional Haze (RH)	N
TACT	N
40 CFR part 68 Risk Management	N
Synthetic Minor (SM)	N
SM-80	N

Title V	N
Major FHAP Source	N
Federal Major Source	Ν
Type A State New Source Review	Ν
Type B State New Source Review	N
Prevention of Significant Deterioration (PSD)	N
Nonattainment New Source Review (NNSR)	N

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Permittee Identification

1. Attune Foods, LLC ('the facility' or 'Attune') proposes to construct a cereal processing facility on Prairie Road in Eugene, Oregon.

General Background

- 2. Attune owns and operates a cereal processing facility and can make a variety of cereal products, such as cereal and granola. The raw ingredients include, but are not limited to, wheat, rice, corn, oats, oil, molasses, and honey.
- 3. Attune operates five (5) separate process lines consisting of two (2) extrusion lines, three (3) granola lines and five (5) individual packaging lines. The facility's ancillary equipment consists of scalpers, destoners, dryers, sifters, extrusion equipment, puffing equipment, conveyors, packaging machines, cookers, process heaters, intermediate storage equipment, shipping and receiving areas, and natural gas-fired combustion units with a combined rating of 47.75 MMBtu/hr. The facility has two (2) baghouses that control particulate matter (PM) emissions. The baghouses exhaust into the building, not to the atmosphere. The operating schedule varies depending on orders.
- 4. The facility started operations in 1988 as Golden Temple of Oregon and was initially permitted as a minimal source in 2002. In 2010 the facility changed ownership to Hearthside Food Solutions and received a Simple ACDP. In 2013 the facility changed ownership to Attune Foods.

Reasons for Permit Action and Fee Basis

- 5. This is a permit renewal with a simple technical modification (see item 6 below) of an existing Simple Air Contaminant Discharge Permit (Simple ACDP) which was issued on April 6, 2018, and expired on April 6, 2023. The facility submitted a timely renewal application on October 14, 2022, the current permit will remain in effect until final action has been taken on the renewal application.
- 6. Attune requested a modification that has been incorporated during the renewal. Attune proposed an increase to the facility's overall MMBtu/hour rating for the combined natural gas-fired combustion units (boilers, ovens, process heaters and water heaters) from 30.2 MMBtu per hour to 47.75 MMBtu per hour and the removal of one packaging line (PL4) as it has been decommissioned. There will be an increase in NO_X and CO emissions over the de minimis level.

Attainment Status

7. Attune is located inside the Eugene-Springfield Air Quality Management Area. The facility is located in an area that has been designated attainment/unclassified for PM_{2.5}, ozone (VOC), NO₂, SO₂, and Pb and a maintenance area for CO and PM₁₀. The facility is located within 100 kilometers of three (3) Class I air quality protection areas: Diamond Peak, Mount Washington and Three Sisters Wilderness areas.

Permitting History

8. LRAPA has reviewed and issued the following permitting actions to this facility since the last permit renewal:

Date(s) Approved/Valid Permit Action Type		Description	
04/06/2018-04/06/2023	Simple ACDP	Renewal	
03/04/2020	Modification	Clarifying that there are six (6) packaging lines	

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Date(s) Approved/Valid	Permit Action Type	Description
Upon Issuance	Simple ACDP	Renewal

Compliance History

- 9. The facility was inspected by LRAPA on November 10, 2022. The facility was in compliance with the permit.
- 10. LRAPA has not issued any violation notices and/or taken enforcement action against this facility since the issuance of the current permit.

Source Testing History

11. The facility is not required to conduct source testing at this time. LRAPA is not aware of any historical source testing conducted at this facility.

Emission Unit Description

12. The emission units regulated by this permit include the following:

Emission Unit	Description	Pollution Control Device	Year Installed	
EL-1	Extrusion Line 1	Baghouse (BH1)	2002	
EL-2	Extrusion Line 2	Baghouse (BH2)	2007	
GL-1	Granola Line 1	NA	1987	
GL-2	Granola Line 2	NA	2007	
GL-3	Granola Line 3	NA	2016	
CU	Natural Gas Combustion Units	NA	1987-2016	
Aggregate Insignificant Activities:				
AIA	Five (5) Packaging Lines	NA	NA	

Nuisance, Deposition and Other Emission Limitations

- 13. Under LRAPA 49-010(1), the permittee must not cause or allow air contaminants from any source subject to regulation by LRAPA to cause a nuisance. Compliance is demonstrated through documentation of all complaints received by the facility from the general public and following procedures to notify LRAPA of receipt of these complaints.
- 14. Under LRAPA 32-055, the permittee must not cause or permit the emission of particulate matter which is larger than 250 microns in size at sufficient duration or quantity as to create an observable deposition upon the real property of another person. Compliance is demonstrated through documentation of all complaints received by the facility from the general public and following procedures to notify LRAPA of receipt of these complaints.
- 15. Under LRAPA 32-090(1), the permittee must not discharge from any source whatsoever such quantities of air contaminants which cause injury or damage to any persons, the public, business or property; such determination is to be made by LRAPA. Compliance is demonstrated through documentation of all complaints received by the facility from the general public and following procedures to notify LRAPA of receipt of these complaints.

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Emission Limitations

16. The facility may not exceed a production rate of 38,700 tons of cereal on a 12-month rolling basis.

- 17. The facility is subject to a limit of 20 percent opacity for each source emission point. The facility is subject to the grains per dry standard cubic foot limitations under LRAPA 32-015(2)(b)(B) and 32-015(2)(c). Visual emission survey (opacity readings) must be performed quarterly and must not exceed an average of 20 percent opacity for a period or periods measured as a six-minute block average using EPA Method 9. A survey log must be kept of all visual surveys conducted and any correctives taken.
- 18. Under LRAPA 32-007, LRAPA may request the facility to prepare an Operation and Maintenance Plan (O&M Plan) for the particulate matter control devices. If an O&M Plan is prepared, the facility must submit a copy to LRAPA for review. If LRAPA determines the plan is deficient, LRAPA may require the facility to amend the plan. At a minimum, the O&M Plan must include inspection schedules for each particulate matter control device. The O&M Plan must identify procedures for recording the date and time of any inspections, identification of the equipment inspected, the results of the inspection, and the actions taken if repairs or maintenance are necessary.

Typically Achievable Control Technology (TACT)

- 19. LRAPA 32-008(2) requires new or modified emission units after January 1, 1994 to meet TACT if the emission unit meets the following criteria: The emission unit is not subject to Major NSR or Type A State NSR in LRAPA title 38, and applicable NSPS in LRAPA title 46, or any other standard applicable to only new or modified sources in LRAPA title 32, title 33, or title 39 for the regulated pollutant; the source is required to have a permit; if new, the emission unit has emissions of any criteria pollutant equal to or greater than one (1) ton per year of any criteria pollutant; if modified, the emission unit would have an increase in emissions of any criteria pollutant equal to or greater than one (1) ton per year of any criteria pollutant; and LRAPA determines that the proposed air pollution control devices and emission reduction processes do not represent TACT.
 - 19.a. The extrusion lines (EUs: EL-1 and EL-2) are controlled by baghouses which are exhausted into the building While a formal TACT determination has not been conducted, LRAPA has determined that the use of these particulate matter control devices likely meets the TACT requirements for this facility.
 - 19.b. The granola lines (EUs: GL-2 and GL-3) have no exhaust stack and any particulate matter emissions are emitted into the building. While a formal TACT determination has not been conducted, LRAPA has determined that emitting particulate matter into the building likely meets the TACT requirements for this facility.
 - 19.c. The natural gas-fired combustion units (EU: CU) for CO and NO_X emissions have the potential to exceed one (1) ton per year. While a formal TACT determination has not been conducted, LRAPA has determined that the purchase of natural gas combustion units with a manufacturer's guarantee for CO and NO_X emissions of 100 ppm or less would likely meet the TACT requirements for this facility.

Plant Site Emission Limits (PSELs)

20. Provided below is a summary of the baseline emissions rate, netting basis, and PSELs for this facility.

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	Baseline Nettin		u Raele		Emission (PSEL)	PSEL Increase	Significant
Pollutant	Emission Rate (TPY)	Previous (TPY)	Proposed (TPY)	Previous PSEL (TPY)	Proposed PSEL (TPY)	Over Netting Basis (TPY)	Emission Rate (TPY)
PM	NA	0	0	24	4.4	4.4	25
PM ₁₀	NA	0	0	14	4.4	4.4	15
PM _{2.5}	NA	0	0	9	4.4	4.4	10
CO	NA	0	0	99	17	17	100
NOx	NA	0	0	39	20	20	40
SO ₂	NA	0	0	NA	NA	NA	40
VOC	NA	0	0	39	39	39	40
GHG (CO ₂ e)	2,217	74,000	2,217	74,000	24,491	22,274	75,000
Individual HAP	NA	NA	NA	NA	NA	NA	NA
Aggregate HAPs	NA	NA	NA	NA	NA	NA	NA

- 20.a. The facility does not have a baseline emission rate for pollutants other than PM_{2.5} and GHGs because the facility was not in operation during either the 1977 or 1978 baseline year. A baseline emission rate is not established for PM_{2.5} in accordance with LRAPA 42-0048(3). The facility's baseline for GHGs is based on actual emissions from the 2009 calendar year in accordance with LRAPA 42-0048(1)(G) and (4).
- 20.b. The netting basis for all pollutants is 0 (zero) in accordance with LRAPA 42-0046(4) and 42-0040(2) & (3), except GHGs which was evaluated in accordance with LRAPA 42-0046(1)(b).
- 20.c. In accordance with LRAPA 42-0041(2), the PM, PM₁₀, PM_{2.5}, CO, and NO_x PSELs have been set at the source's potential to emit. VOC emissions PSEL was requested by the facility to maintain the existing VOC PSEL of 39 tons per year on January 11, 2024. The previous PSELs for this facility were set at the Generic PSEL levels that are no longer allowed as of March 1, 2023, due to a DEQ rule change. No PSEL is set for SO₂ in accordance with LRAPA 42-0020(3) because SO₂ is emitted facility-wide below the de minimis level, as defined in LRAPA title 12.
- 20.d. The baseline year, netting basis and SER are not applicable for limiting federal HAPs. As this facility is a minor source of federal HAPs, no PSELs have been established for federal HAPs.

Federal Hazardous Air Pollutants/Toxic Air Contaminants

- 21. The facility does not have a potential-to-emit for federal HAPs that will exceed the major source thresholds for individual federal HAPs and aggregate federal HAPs of 10 TPY and 25 TPY, respectively. Therefore, the facility is considered a minor or area source of federal HAPs.
- 22. Under the Cleaner Air Oregon program, only existing sources that have been notified by LRAPA and new sources are required to perform risk assessments. This source has not been notified by LRAPA and is, therefore, not yet required to perform a risk assessment or report annual emissions of toxic air contaminants. LRAPA required reporting of approximately 600 toxic air contaminants in 2016 and regulates approximately 260 toxic air contaminants that have Risk Based Concentrations established in the rule. All federal HAPs are on the list of approximately 600 toxic air contaminants. After the source is notified by LRAPA, they must update their inventory and perform a risk assessment to see

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if they must reduce risk from their toxic air contaminant emissions. Until then, sources will be required to report toxic air contaminant emissions triennially.

23. Provided below is a summary of the federal HAP and CAO TAC emission estimates based on the potential emissions as calculated in the emission detail sheets. The highest potential emission for an individual HAP is toluene at 6.75E-03 TPY. The potential emissions in aggregate of all federal HAPs is 6.19E-01 TPY.

Pollutant	CAS Number	Potential Emissions (TPY)	Federal HAP	CAO Air Toxic						
Organics										
Acetaldehyde	75-07-0	7.93E-04	Yes	Yes						
Acrolein	107-02-8	4.98E-04	Yes	Yes						
Benzene	71-43-2	1.48E-03	Yes	Yes						
Benzo[a]pyrene	50-32-8	2.21E-07	Yes	Yes						
Ethyl Benzene	100-41-4	1.75E-03	Yes	Yes						
Formaldehyde	50-00-0	3.14E-03	Yes	Yes						
Hexane	110-54-3	1.16E-03	Yes	Yes						
Naphthalene	91-20-3	5.53E-05	Yes	Yes						
POM (including PAHs)		1.84E-05	Yes	Yes						
Toluene	108-88-3	6.75E-03	Yes	Yes						
Xylenes	1330-20-7	5.02E-03	Yes	Yes						
Inorganic Gases										
Ammonia	7664-41-7	5.90E-01	No	Yes						
Metals										
Arsenic	7440-38-2	3.69E-05	Yes	Yes						
Barium	7440-39-3	8.11E-04	No	Yes						
Beryllium	7440-41-7	2.21E-06	Yes	Yes						
Cadmium	7440-43-9	2.03E-04	Yes	Yes						
Chromium, Hexavalent	18540-29-9	2.58E-04	Yes	Yes						
Cobalt	7440-48-4	1.55E-05	Yes	Yes						
Copper	7440-50-8	1.57E-04	No	Yes						
Lead	7439-92-1	9.22E-05	Yes	Yes						
Manganese	7439-96-5	7.01E-05	Yes	Yes						
Mercury	7439-97-6	4.79E-05	Yes	Yes						
Molybdenum Trioxide	1313-27-5	3.04E-04	No	Yes						
Nickel	7440-02-0	3.87E-04	Yes	Yes						
Selenium	7782-49-2	4.43E-06	Yes	Yes						
Vanadium	7740-62-2	4.24E-04	No	Yes						
Zinc	7440-66-6	5.35E-03	No	Yes						

Toxics Release Inventory

24. The Toxics Release Inventory (TRI) is a federal program that tracks the management of certain toxic chemicals that may pose a threat to human health and the environment, over which LRAPA has no regulatory authority. It is a resource for learning about toxic chemical releases and pollution prevention activities reported by certain industrial facilities. Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) created the TRI program. In general, chemicals covered by the TRI program are those that cause:

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- Cancer or other chronic human health effects;
- Significant adverse acute human health effects; or
- Significant adverse environmental effects.

There are currently over 650 chemicals covered by the TRI program. Facilities that manufacture, process or otherwise use these chemicals in amounts above established levels must submit annual TRI reports on each chemical. NOTE: The TRI program is a federal program over which LRAPA has no regulatory authority. LRAPA does not guarantee the accuracy of any information copied from EPA's TRI website.

In order to report emissions to the TRI program, a facility must operate under a reportable NAICS code, meet a minimum employee threshold, and manufacture, process, or otherwise use chemicals in excess of the applicable reporting threshold for the chemical. The facility's NAICS code is 311230 – Breakfast Cereal Manufacturing which is subject to the TRI program, but the facility falls below the reporting limits and does not have to report to the TRI program.

New Source Performance Standards (NSPSs)

- 25. There are no emission units at this facility for which NSPS have been promulgated or are applicable.
 - 25.a. 40 CFR 60 subpart DD Standards of Performance for Grain Elevators is not applicable to this facility because the facility does not meet the definition of a "grain terminal elevator" or "grain storage elevator" under 40 CFR 60.301. The definition of a grain terminal elevator does not include cereal manufacturers. The definition of grain storage elevator only applies to wheat flour, corn, rice or soybeans.

National Emission Standards for Hazardous Air Pollutants (NESHAPs)

26. There are no emission units at this facility for which NESHAPs have been promulgated or are applicable.

Recordkeeping Requirements

27. The permittee must monitor and maintain records for a period of at least five (5) years from the date of entry of the following information: [LRAPA 34-016(1) and LRAPA 42-0080]

Activity	Units	Minimum Recording Frequency						
Emission Unit Recordkeeping								
Cereal Production	Tons	Monthly						
Total natural gas combusted	MMscf	Monthly						
PSEL pollutant emissions as calculated according to Condition 4 (of the permit), including the supporting process information	Tons	Monthly						
General Recordkeeping								
Log of each nuisance complaint and the resolution	NA	Upon receipt of complaint						
Visible emission survey	Percent	Quarterly						
Operation and Maintenance Plan (if required by LRAPA) according to Condition 14 (of the permit)	NA	Maintain current version on-site						

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Activity	Units	Minimum Recording Frequency
Upset log of all planned and unplanned excess emissions	See Condition G15	Per occurrence

Reporting Requirements

28. The facility must submit to LRAPA the following reports by no later than the dates indicated in the table below:

Report	Reporting Period	Due Date
PSEL pollutant emissions as calculated according to Condition 4 (of the permit), including supporting calculations.	Annual	February 15
A summary of any maintenance done and each inspection of any control device at the facility.	Annual	February 15
A summary of nuisance complaints from the public and the resolution, as applicable/	Annual	February 15
The upset log information required by Condition Error! Reference source not found., if required by Condition Error! Reference source not found	Annual	February 15
GHG Report, as required by Condition 6 (of the permit).	Annual	March 31

Public Notice

29. Pursuant to LRAPA 37-0064(5)(a), which became effective on April 11, 2024, issuance of a renewed Simple Air Contaminant Discharge Permit requires public notice in accordance with LRAPA 31-0030(3)(c), which requires LRAPA to provide notice of the proposed permit action and a minimum of 35 days for interested persons to submit written comments.

The draft permit was on public notice April 24, 2024 to May 30, 2024. One (1) written comment was submitted during the public comment period. No public hearing was requested by ten (10) or more individuals or an individual representing a group of more than ten (10) individuals. A summary of the public comment and LRAPA's response is included in item 30 of the Review Report.

Public Comments Summary and LRAPA Responses:

- 30. [All public comments that were received for this permit are a public record and are retained with the public permit review files. Public comments that are not related to the review report or draft permit, such as those comments that are statements of fact or express an opinion, are not presented in this document, and do not require a response from LRAPA.]
 - **Comment 1:** Change the Natural Gas Combustion Tables to reflect the updated lower PM emissions factor as well as the PSEL Table in the Review Report.
 - **Response 1:** The Natural Gas Combustion table as well as the Plant Site Emission (PSEL) and Baseline and Netting tables in the Emission Data Sheets were updated to reflect the updated emission factor for $PM/PM_{10}/PM_{2.5}$ and the updated and lower tons per year emissions for $PM/PM_{10}/PM_{2.5}$. The

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Plant Site Emission Limits (PSELs) section table in the Review Report did not have to be updated the $PM/PM_{10}/PM_{2.5}$ tons per year emissions were correct.

BE/aa 6/3/2024

LIST OF ABBREVIATIONS THAT MAY BE USED IN THIS PERMIT

ACDP	Air Contaminant Discharge Permit	MMBtu	Million British thermal units
AQMA	Air Quality Management Area	MMCF	Million cubic feet
Act	Federal Clean Air Act	NA	Not applicable
ASTM	American Society of Testing and	NESHAP	National Emission Standards for
	Materials		Hazardous Air Pollutants
Btu	British thermal unit	NO_X	Nitrogen oxides
CAO	Cleaner Air Oregon	NSPS	New Source Performance
CD ID	Control device identifier		Standards
CEMS	Continuous Emissions Monitoring	NSR	New Source Review
	System	O ₂	Oxygen
CFR	Code of Federal Regulations	OAR	Oregon Administrative Rules
CMS	Continuous Monitoring System	ODEQ	Oregon Department of
CO	Carbon Monoxide	ODLQ	Environmental Quality
CO ₂	Carbon dioxide	ORS	Oregon Revised Statutes
CO ₂ e	Carbon dioxide equivalent	O&M	Operation and maintenance
COMS	Continuous Opacity Monitoring	PB	Lead
COMS	System	PCD	Pollution Control Device
CPMS	Continuous parameter monitoring	PM	Particulate matter
CPIVIS		PM _{2.5}	Particulate matter less than 2.5
-l£	system	PIVI2.5	
dscf	Dry standard cubic feet	DM	microns in size
EF.	Emission factor	PM ₁₀	Particulate matter less than 10
EPA	US Environmental Protection		microns in size
	Agency	ppm	Parts per million
EU	Emissions Unit	PSEL	Plant Site Emission Limit
EU ID	Emission unit identifier	PTE	Potential to Emit
FCAA	Federal Clean Air Act	scf	Standard cubic foot
ft ²	Square foot	SER	Significant emission rate
gal	Gallon	SIC	Standard Industrial Code
GHG	Greenhouse Gas	SIP	State Implementation Plan
gr/dscf	Grain per dry standard cubic feet	SO ₂	Sulfur dioxide
	(1 pound = 7000 grains)	TAC	Toxic air contaminant
HAP	Hazardous Air Pollutants as	TACT	Typically Achievable Control
	defined by LRAPA title 12		Technology
hr	Hour	TBD	To Be Determined
ID	Identification number or label	TEU	Toxic Emission Unit
Lb	Pound	tpy	Tons per year
LRAPA	Lane Regional Air Protection	νÉ	Visible emissions
-	Agency	VOC	Volatile organic compounds
MACT	Maximum Achievable Control	Year	A period consisting of any 12-
	Technology		consecutive calendar months
MM	Million		TELESCATIO GALORIGA INGINIO
	Thin of the state		

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Emission Detail Sheets

Plant Site Emission Limits (PSEL)

PLANT SITE EMISSION LIMITS										
Emission Units	PM	PM ₁₀	PM _{2.5}	со	NO _X	SO ₂	VOC (3)	Single HAP *	Aggregate HAP *	GHG
	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy
Cereal Production (1)	3.87	3.87	3.87	0.00	0.00	0.00	38.62	0.00	0.00	0.00
Combustion Units	0.51	0.51	0.51	17.12	20.38	0.53	1.12	0.01	0.02	24491
Potential to Emit (PTE)	4.38	4.38	4.38	17.12	20.38	0.53	39.74	0.01	0.02	24,491
PSELs (2)	4.4	4.4	4.4	17	20	0.5	39	0.01	0.02	24,491

⁽¹⁾ Cereal production emissions are based on a throughput of total cereal produced of of 38,700 tons per year.
(2) PSELs were rounded to the 0.45. If PSEL was below the 0.45, it was rounded down and if above the PSEL was rounded up.
(3) Attune requested a VOC PSEL limit of 39 tpy on January 11, 2024

Baseline and Netting

Pollutant Baseline (1)	Baseline (1)	Netting Basis ⁽²⁾		Plant Site Emission Limit (PSEL) ⁽³⁾		PSEL PTE		Increase over Netting	SER
Tondant	Daseille	Previous	Proposed	Previous PSEL	Proposed PSEL	Increase	Emissions	ns Basis	52
	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy	tpy
PM	NA	0.0	0.0	24	4.4	-20	4.38	4.4	25
PM ₁₀	NA	0.0	0.0	14	4.4	-9.6	4.38	4.4	15
PM _{2.5}	NA	0.0	0.0	9.0	4.4	-4.6	4.38	4.4	10
CO	NA	0.0	0.0	99	17	-82	17.12	17	99
NO_X	NA	0.0	0.0	39	20	-19	20.38	20	39
SO ₂	NA	0.0	0.0	de minimis	de minimis	de minimis	de minimis	de minimis	39
VOC	NA	0.0	0.0	39	39	0.0	39.74	39.0	39
GHG ⁽³⁾	2,217	74,000	2,217	74,000	24,491	-49,509	24,491	22,274	74,000

- (1) Baseline emission rates (BERs) have been set at zero (0) for all criteria pollutants because the facility was not in operation during the 1978 baseline
- (1) BER for PM_{2.5} was not established in accordance with LRAPA 42-0048(3).
- (1) BER for GHG was evaluated for year 2009 the facility in accordance with LRAPA 42-0048(b).
- (2) Proposed netting for VOC was established according to LRAPA 42-0046(3)(e)(B).
- (2) Proposed netting basis for GHG was established according to LRAPA 42-0046(1)(b).
- (2) For all other pollutants the netting is zero because the facility was constructed after the 1978 baseline year.
- (3) PSELs VOC was set at the 39 tons per year generic level per Attune's January 11, 2024 request.

Cereal Production Calculations

CEREAL PRODUCTION EMISSIONS CALCULATIONS								
Pollutants	Pollutants Emission Factor (lbs/ton) tons/year							
PM ⁽¹⁾	0.2	3.9						
PM ₁₀	0.2	3.9						
PM _{2.5}	0.2	3.9						
VOC ⁽²⁾ 2.00 38.6								
Notes:								

- 1. No specific emissions factors for particulate matter (PM/PM $_{10}$ /PM $_{2.5}$) are available for this process. A conservative factor was used to ensure the facility does not exceed the siginificant emission rate for these pollutants. The factor is considered conservative because most emission points are controlled by fabric filters rated at 99.99% efficiency and emission factors for similar processes do not suggest there are expected emissions at this level. VOC will trigger additional permitting requirements before particulate matter.
- 2. EMEP/EEA air pollutant emission inventory guidebook 2009 Chapter 2.D.2 Food and drink Page 16 Table 3-18 Cakes, Biscuits and Breakfast Cereals (NMVOC EF: 1 kg/Mg = 2 lb/ton)

Natural Gas Emission Units Calculations

			Potential	Potential
	NG Emission	NG Emission	Hourly	Annual
	Factor	Factor	Emissions	Emissions
Pollutant	(lb/MMCF) (1)	Units	(lbs/hr)	(TPY)
PM/PM ₁₀ /PM _{2.5}	2.5	lbs/MMCF	0.12	0.51
Carbon Monoxide	84	lbs/MMCF	3.91	17.12
Nitrogen Oxides	100	lbs/MMCF	4.65	20.38
Sulfur Dioxide	2.6	lbs/MMCF	0.12	0.53
VOC	5.5	lbs/MMCF	0.26	1.12
GHGs (CO ₂ equiv.)	120,143	lbs/MMCF	5,591	24,491

Notes:

- 1. Emission Factors are based on DEQ Emission Factors Gas Fired Boilers (AQ-EF05), Revised 08/01/11
- 2. GHG emissions are based on 40 CFR 98, Tables C-1 and C-2

HAP Emissions: Natural Gas Emission Units Calculations

		Potential	Potential			
	NG Emission	Hourly	Annual			
	Factor	Emissions	Emissions	Federal	CAO	
Pollutant	(lb/MMCF)	(lbs/hr)	(TPY)	HAP	Air Toxic	
Organics (1)						
Acetaldehyde	4.30E-03	2.0E-04	8.77E-04	Yes	Yes	
Acrolein	2.70E-03	1.3E-04	5.50E-04	Yes	Yes	
Benzene	8.00E-03	3.7E-04	1.63E-03	Yes	Yes	
Benzo[a]pyrene	1.20E-06	5.6E-08	2.45E-07	Yes	Yes	
Ethyl Benzene	9.50E-03	4.4E-04	1.94E-03	Yes	Yes	
Formaldehyde	1.70E-02	7.9E-04	3.47E-03	Yes	Yes	
Hexane	6.30E-03	2.9E-04	1.28E-03	Yes	Yes	
Naphthalene	3.00E-04	1.4E-05	6.12E-05	Yes	Yes	
Total PAHs (exc. Nap.)	1.00E-04	4.7E-06	2.04E-05	Yes	Yes	
Toluene	3.66E-02	1.7E-03	7.46E-03	Yes	Yes	
Xylenes	2.72E-02	1.3E-03	5.54E-03	Yes	Yes	
Inorganic Gases					•	
Ammonia	3.2	1.5E-01	6.52E-01	No	Yes	
Metals (2)						
Arsenic	2.0E-04	9.3E-06	4.08E-05	Yes	Yes	
Barium	4.4E-03	2.0E-04	8.97E-04	No	Yes	
Beryllium	1.2E-05	5.6E-07	2.45E-06	Yes	Yes	
Cadmium	1.1E-03	5.1E-05	2.24E-04	Yes	Yes	
Chromium, Hexavalent (3)	1.4E-03	6.5E-05	2.85E-04	Yes	Yes	
Cobalt	8.4E-05	3.9E-06	1.71E-05	Yes	Yes	
Copper	8.5E-04	4.0E-05	1.73E-04	No	Yes	
Lead ⁽⁴⁾	5.0E-04	2.3E-05	1.02E-04	Yes	Yes	
Manganese	3.8E-04	1.8E-05	7.75E-05	Yes	Yes	
Mercury	2.6E-04	1.2E-05	5.30E-05	Yes	Yes	
Molybdenum Trioxide (5)	1.7E-03	7.7E-05	3.36E-04	No	Yes	
Nickel	2.1E-03	9.8E-05	4.28E-04	Yes	Yes	
Selenium	2.4E-05	1.1E-06	4.89E-06	Yes	Yes	
Vanadium	2.3E-03	1.1E-04	4.69E-04	No	Yes	
Zinc	2.9E-02	1.3E-03	5.91E-03	No	Yes	
		Total (TPY) =	0.68	0.02	0.68	

Notes:

- 1. Non-metal toxic emission factors based on SCAQMD AB 2588 Default Emission Factors for Fuel Combustion, Table B-1
- 2. Metal toxic emission factors are based on US EPA WebFIRE/AP-42 Section 1.4
- 3. Chromium assumed to be hexavalent form
- 4. Lead is lead compounds other than elemental lead
- 5. Molybdenum assumed to be present as a trioxide compound