Statement of Basis

Permit to Construct No. P-2012.0003
Project ID 60981

Chobani Idaho, Inc.
Twin Falls, Idaho

Facility ID 083-00138

Proposed for Public Comment

DRAFT XX, 2012
Kelli Wetzel
Permit Writer

The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01.et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE **3**
FACILITY INFORMATION **5**
Description 5
Permitting History 5
Application Scope 5
Application Chronology 6
TECHNICAL ANALYSIS **7**
Emissions Units and Control Equipment 7
Emissions Inventories 8
Ambient Air Quality Impact Analyses 13
REGULATORY ANALYSIS **13**
Attainment Designation (40 CFR 81.313) 13
Permit to Construct (IDAPA 58.01.01.201) 13
Tier II Operating Permit (IDAPA 58.01.01.401) 13
Visible Emissions (IDAPA 58.01.01.625) 13
Standards for New and Minor Sources (IDAPA 58.01.01.676-677) 14
Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70) 14
PSD Classification (40 CFR 52.21) 14
NSPS Applicability (40 CFR 60) 14
NESHAP Applicability (40 CFR 61) 16
MACT Applicability (40 CFR 63) 16
Permit Conditions Review 17
PUBLIC REVIEW **19**
Public Comment Opportunity 19
Public Comment Period 19
Public Hearing 20
APPENDIX A – EMISSIONS INVENTORIES **21**
APPENDIX B – AMBIENT AIR QUALITY IMPACT ANALYSES **22**
APPENDIX C – FACILITY DRAFT COMMENTS **23**
APPENDIX D – PROCESSING FEE **25**

ACRONYMS, UNITS, AND CHEMICAL NOMENCLATURE

AAC	acceptable ambient concentrations
AACC	acceptable ambient concentrations for carcinogens
acfm	actual cubic feet per minute
ASTM	American Society for Testing and Materials
Btu	British thermal units
CAA	Clean Air Act
CAM	Compliance Assurance Monitoring
CAS No.	Chemical Abstracts Service registry number
cfm	cubic feet per minute
CFR	Code of Federal Regulations
CO	carbon monoxide
CO_2	carbon dioxide
CO_2e	CO_2 equivalent emissions
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EL	screening emission levels
EPA	U.S. Environmental Protection Agency
GHG	greenhouse gases
gph	gallons per hour
gpm	gallons per minute
gr	grains (1 lb = 7,000 grains)
HAP	hazardous air pollutants
hp	horsepower
hr/yr	hours per consecutive 12 calendar month period
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometers
lb/hr	pounds per hour
lb/qtr	pound per quarter
m	meters
MACT	Maximum Achievable Control Technology
MMBtu	million British thermal units
MMscf	million standard cubic feet
NAAQS	National Ambient Air Quality Standard
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_2	nitrogen dioxide
NO_x	nitrogen oxides
NSPS	New Source Performance Standards
O&M	operation and maintenance
O_2	oxygen
PAH	polyaromatic hydrocarbons
PC	permit condition
PCB	polychlorinated biphenyl
PM	particulate matter
$PM_{2.5}$	particulate matter with an aerodynamic diameter less than or equal to a nominal 2.5 micrometers
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
POM	polycyclic organic matter
ppm	parts per million
ppmw	parts per million by weight
PSD	Prevention of Significant Deterioration
PTC	permit to construct

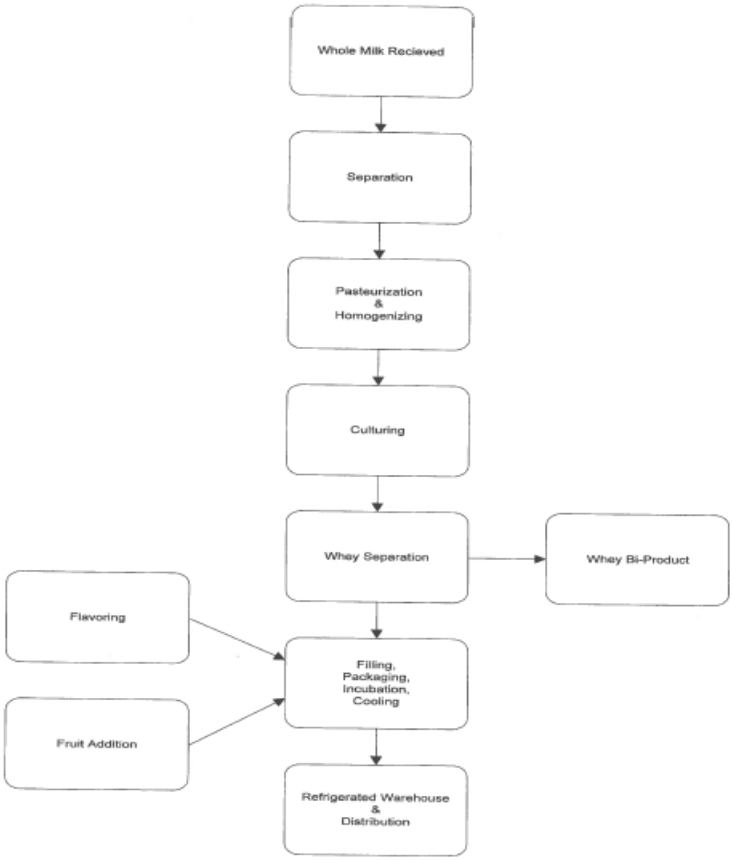
PTE	potential to emit
PW	process weight rate
RMP	Risk Management Plan
Rules	*Rules for the Control of Air Pollution in Idaho*
scf	standard cubic feet
SCL	significant contribution limits
SIP	State Implementation Plan
SM	synthetic minor
SM80	synthetic minor facility with emissions greater than or equal to 80% of a major source threshold
SO_2	sulfur dioxide
SO_x	sulfur oxides
T/day	tons per calendar day
T/hr	tons per hour
T/yr	tons per consecutive 12 calendar month period
T2	Tier II operating permit
TAP	toxic air pollutants
U.S.C.	United States Code
VOC	volatile organic compounds
yd^3	cubic yards
$\mu g/m^3$	micrograms per cubic meter

FACILITY INFORMATION

Description

Chobani Idaho, Inc. (Chobani) submitted a 15-day Pre-Permit Construction application for a new diary processing facility that will produce yogurt at 3450 Kimberly Road East in Twin Falls.

The proposed Chobani facility will produce yogurt. Below is a process flow diagram of the yogurt making process.



Numerous operations will be conducted at the facility is support of yogurt production. These include five natural gas-fired boilers, one anhydrous ammonia refrigeration system containing eight chillers, and eight one cell cooling towers. In addition, three natural gas make-up air unit heaters, eight natural gas roof top unit heaters, and eight natural gas infrared heaters will be used to provide building heat to the offices and facility buildings.

Chobani plans to lease a parcel of land to the southwest of the proposed Chobani facility to the City of Twin Falls for the construction and operation of a wastewater pre-treatment facility. The wastewater pre-treatment facility will be a separate facility and will be required to obtain an air quality PTC for its own equipment.

Permitting History

This is the initial PTC for a new facility thus there is no permitting history.

Application Scope

This permit is the initial PTC for this facility. The applicant has proposed to authorize pre-permit construction and to install and operate a yogurt production facility.

Application Chronology

January 17, 2012	DEQ received an application and an application fee.
January 23 – February 7, 2012	DEQ provided an opportunity to request a public comment period on the application and proposed permitting action.
January 27, 2012	DEQ approved pre-permit construction.
February 3, 2012	DEQ determined that the application was complete.
February 24, 2012	DEQ made available the draft permit and statement of basis for peer and regional office review.
March 14, 2012	DEQ made available the draft permit and statement of basis for applicant review.
Month Day – Month Day, Year	DEQ provided a public comment period on the proposed action.
Month Day, Year	DEQ provided a public hearing in CITY.
Month Day, Year	DEQ received the permit processing fee.
Month Day, Year	DEQ issued the final permit and statement of basis.

TECHNICAL ANALYSIS

Emissions Units and Control Equipment

Table 1 EMISSIONS UNIT AND CONTROL EQUIPMENT INFORMATION

Source ID No.	Sources	Emission Point ID No.
Cleaver Brooks Boiler Nos. 1-5 Boiler1 – Boiler5	Boiler 1 through 5 Manufacturer: Cleaver Brooks Model: CBLE-700-800 Rated Capacity: 32.659 MMBtu/hr each Fuel: Natural Gas	Exit height: 15.85 m Exit diameter: 0.61 m Exit flow rate: 18.86 m/s Exit temperature: 472.04 K
Boiler Room Make-Up Air Unit BRMAU1	Manufacturer: Rupp Air Model: RAM 225 Rated Capacity: 3,586,957 Btu/hr Fuel: Natural Gas	Exit height: 14.63 m Exit diameter: 1.27 m Exit flow rate: 15.24 m/s Exit temperature: 313 K
Lab Make-Up Air Unit LABMAU	Manufacturer: Aaon Model: RN-050 Rated Capacity: 810,000 Btu/hr Fuel: Natural Gas	Exit height: 14.63 m Exit diameter: 0.50 m Exit flow rate: 15.24 m/s Exit temperature: 313 K
Battery Make-Up Air Unit BATTMAU	Manufacturer: Rupp Air Model: RAM 222 Rated Capacity: 3,586,957 Btu/hr Fuel: Natural Gas	Exit height: 14.63 m Exit diameter: 1.27 m Exit flow rate: 15.24 m/s Exit temperature: 313 K
Main Office Roof Top Unit Heater Nos. 1-6 RTU1 – RTU6	RTU 1 through 6 Manufacturer: Carrier Model: 48A5,T,030 Rated Capacity: 525,000 Btu/hr each Fuel: Natural Gas	Exit height: 14.63 m Exit diameter: 0.50 m Exit flow rate: 15.24 m/s Exit temperature: 313 K
Meeting/RR/Plant Offices/ Maintenance Office Roof Top Unit PLANT	Manufacturer: Carrier Model: 48A5,S,020 Rated Capacity: 350,000 Btu/hr Fuel: Natural Gas	Exit height: 14.63 m Exit diameter: 0.50 m Exit flow rate: 15.24 m/s Exit temperature: 313 K
Maintenance/Part/Fab Roof Top Unit MAINT	Manufacturer: Carrier Model: 48A5,S,060 Rated Capacity: 1,164,000 Btu/hr Fuel: Natural Gas	Exit height: 14.63 m Exit diameter: 0.50 m Exit flow rate: 15.24 m/s Exit temperature: 313 K
Receiving Bay Infrared Heater Nos. 1-8 IRH1 – IRH8	Manufacturer: Reznor Model: VR-200-60 Rated Capacity: 200,000 Btu/hr Fuel: Natural Gas	Exit height: 8.53 m
Eight One Cell Cooling Towers Nos. 1-8 CT01 – CT08	Max Flow Rate: 34,140 gpm TDS Blowdown: 1500 mg/L or ppmw Drift Eliminators: 0.00005 gal drift/gal flow	Exit height: 23.47 m Exit diameter: 3.96 m Exit flow rate: 11.43 m/s Exit temperature: 300 K
Anhydrous Ammonia Refrigeration System (8 Chillers) REFRIG	Rated Capacity: 14,850 lbs	

There are no emission controls proposed for this facility.

Emissions Inventories

Potential to Emit

IDAPA 58.01.01 defines Potential to Emit as the maximum capacity of a facility or stationary source to emit an air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is state or federally enforceable. Secondary emissions do not count in determining the potential to emit of a facility or stationary source.

Using this definition of Potential to Emit an emission inventory was developed for the five natural gas-fired boilers, three natural gas-fired make-up air units, eight natural gas-fired roof top unit heaters, eight natural gas-fired infrared heaters, eight one cell cooling towers, and one anhydrous ammonia refrigeration system at the facility (see Appendix A) associated with this proposed project. Emissions estimates of criteria pollutant, greenhouse gases (GHG), hazardous air pollutants (HAP), and toxic air pollutants (TAP) were based on emission factors from AP-42, vendor information, operation of 8,760 hours per year, and process information specific to the facility for this proposed project.

Pre-Project Potential to Emit

Pre-project Potential to Emit is used to establish the change in emissions at a facility as a result of this project.

This is a new facility. Therefore, pre-project emissions are set to zero for all criteria pollutants.

Post Project Potential to Emit

Post project Potential to Emit is used to establish the change in emissions at a facility and to determine the facility's classification as a result of this project. Post project Potential to Emit includes all permit limits resulting from this project.

The following table presents the post project Potential to Emit for criteria and GHG pollutants from all emissions units at the facility as determined by DEQ staff. See Appendix A for a detailed presentation of the calculations of these emissions for each emissions unit.

Table 2 POST PROJECT POTENTIAL TO EMIT FOR REGULATED AIR POLLUTANTS

Source	$PM_{10}/PM_{2.5}$		SO_2		NO_x		CO		VOC		CO_2e	
	lb/hr[(a)]	T/yr[(b)]	lb/hr[(a)]	T/yr[(b)]	lb/hr[(a)]	T/yr[(b)]	lb/hr[(a)]	T/yr[(b)]	lb/hr[(a)]	T/yr[(b)]	lb/hr[(a)]	T/yr[(b)]
Boiler1	0.33	1.45	0.02	0.09	2.32	10.16	1.18	5.17	0.13	0.57	3851.20	16,868.25
Boiler2	0.33	1.45	0.02	0.09	2.32	10.16	1.18	5.17	0.13	0.57	3851.20	16,868.25
Boiler3	0.33	1.45	0.02	0.09	2.32	10.16	1.18	5.17	0.13	0.57	3851.20	16,868.25
Boiler4	0.33	1.45	0.02	0.09	2.32	10.16	1.18	5.17	0.13	0.57	3851.20	16,868.25
Boiler5	0.33	1.45	0.02	0.09	2.32	10.16	1.18	5.17	0.13	0.57	3851.20	16,868.25
BRMAU1	0.03	0.13	0.002	0.01	0.35	1.53	0.30	1.31	0.02	0.09	423.01	1,852.79
LABMAU	0.009	0.04	0.0005	0.002	0.08	0.35	0.07	0.31	0.005	0.02	95.52	418.36
BATTMAU	0.03	0.13	0.002	0.01	0.35	1.53	0.30	1.31	0.02	0.09	423.01	1,852.79
RTU1	0.005	0.02	0.0003	0.0013	0.05	0.22	0.04	0.18	0.002	0.01	61.94	271.31
RTU2	0.005	0.02	0.0003	0.0013	0.05	0.22	0.04	0.18	0.002	0.01	61.94	271.31
RTU3	0.005	0.02	0.0003	0.0013	0.05	0.22	0.04	0.18	0.002	0.01	61.94	271.31
RTU4	0.005	0.02	0.0003	0.0013	0.05	0.22	0.04	0.18	0.002	0.01	61.94	271.31
RTU5	0.005	0.02	0.0003	0.0013	0.05	0.22	0.04	0.18	0.002	0.01	61.94	271.31
RTU6	0.005	0.02	0.0003	0.0013	0.05	0.22	0.04	0.18	0.002	0.01	61.94	271.31
PLANT	0.002	0.01	0.0002	0.0009	0.03	0.13	0.03	0.13	0.002	0.01	41.26	180.70
MAINT	0.009	0.04	0.0007	0.003	0.11	0.48	0.10	0.44	0.009	0.04	137.24	601.10
IRH1	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH2	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH3	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH4	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH5	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH6	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH7	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
IRH8	0.002	0.01	0.0001	0.0005	0.02	0.09	0.02	0.09	0.001	0.0047	23.57	103.25
CT01-CT08	0.25	1.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
REFRIG	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Post Project Totals	**2.03**	**8.90**	**0.11**	**0.49**	**12.98**	**56.86**	**7.10**	**31.15**	**0.73**	**3.20**	**20936.24**	**91700.85**

a) Controlled average emission rate in pounds per hour is a daily average, based on the proposed daily operating schedule and daily limits.
b) Controlled average emission rate in tons per year is an annual average, based on the proposed annual operating schedule and annual limits.

Change in Potential to Emit

The change in facility-wide potential to emit is used to determine if a public comment period may be required and to determine the processing fee per IDAPA 58.01.01.225. The following table presents the facility-wide change in the potential to emit for criteria pollutants.

Table 3 CHANGES IN POTENTIAL TO EMIT FOR REGULATED AIR POLLUTANTS

Source	$PM_{10}/PM_{2.5}$		SO_2		NO_x		CO		VOC		CO_2e	
	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Pre-Project Potential to Emit	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Post Project Potential to Emit	2.03	8.90	0.11	0.49	12.98	56.86	7.10	31.15	0.73	3.20	20936	91700
Changes in Potential to Emit	**2.03**	**8.90**	**0.11**	**0.49**	**12.98**	**56.86**	**7.10**	**31.15**	**0.73**	**3.20**	**20936**	**91700**

Non-Carcinogenic TAP Emissions

A summary of the estimated PTE for emissions increase of non-carcinogenic toxic air pollutants (TAP) is provided in the following table.

Pre- and post-project, as well as the change in, non-carcinogenic TAP emissions are presented in the following table:

Table 4 PRE- AND POST PROJECT POTENTIAL TO EMIT FOR NON-CARCINOGENIC TOXIC AIR POLLUTANTS

Non-Carcinogenic Toxic Air Pollutants	Pre-Project 24-hour Average Emissions Rates for Units at the Facility (lb/hr)	Post Project 24-hour Average Emissions Rates for Units at the Facility (lb/hr)	Change in 24-hour Average Emissions Rates for Units at the Facility (lb/hr)	Non-Carcinogenic Screening Emission Level (lb/hr)	Exceeds Screening Level? (Y/N)
Ammonia	0.00E-03	2.23	2.23	1.2	Yes
Barium	0.00E-03	7.63E-04	7.63E-04	0.033	No
Chromium	0.00E-03	2.44E-04	2.44E-04	0.033	No
Cobalt	0.00E-03	1.46E-05	1.46E-05	0.0033	No
Copper	0.00E-03	9.29E-05	9.29E-05	0.013	No
Hexane	0.00E-03	0.31	0.31	12	No
Manganese	0.00E-03	6.60E-05	6.60E-05	0.067	No
Molybdenum	0.00E-03	1.91E-04	1.91E-04	0.333	No
Naphthalene	0.00E-03	1.06E-04	1.06E-04	3.33	No
Pentane	0.00E-03	0.45	0.45	118	No
Selenium	0.00E-03	4.16E-06	4.16E-06	0.013	No
Toluene	0.00E-03	5.93E-04	5.93E-04	25	No
Vanadium	0.00E-03	3.98E-04	3.98E-04	0.003	No
Zinc	0.00E-03	5.02E-03	5.02E-03	0.333	No

One of the PTEs for non-carcinogenic TAP was exceeded as a result of this project. However, ammonia emissions from the anhydrous ammonia refrigeration system were not modeled because under normal operations the system will not release ammonia to the ambient air. Only in the event of a system backup would an instantaneous release of ammonia occur from a pressure release valve.

Carcinogenic TAP Emissions

A summary of the estimated PTE for emissions increase of carcinogenic toxic air pollutants (TAP) is provided in the following table.

Table 5 PRE- AND POST PROJECT POTENTIAL TO EMIT FOR CARCINOGENIC TOXIC AIR POLLUTANTS

Carcinogenic Toxic Air Pollutants	Pre-Project Annual Average Emissions Rates for Units at the Facility (lb/hr)	Post Project Annual Average Emissions Rates for Units at the Facility (lb/hr)	Change in Annual Average Emissions Rates for Units at the Facility (lb/hr)	Carcinogenic Screening Emission Level (lb/hr)	Exceeds Screening Level? (Y/N)
Arsenic	0.00E-03	3.48E-05	3.48E-05	1.5E-06	Yes
Benzene	0.00E-03	3.65E-04	3.65E-04	8.0E-04	No
Benzo(a)pyrene	0.00E-03	2.09E-07	2.09E-07	2.0E-06	No
Beryllium	0.00E-03	2.09E-06	2.09E-06	2.8E-05	No
Cadmium	0.00E-03	1.91E-04	1.91E-04	3.7E-06	Yes
Formaldehyde	0.00E-03	1.30E-02	1.30E-02	5.1E-04	Yes
3-Methylchloranthrene	0.00E-03	3.13E-07	3.13E-07	2.5E-06	No
Nickel	0.00E-03	3.65E-04	3.65E-04	2.7E-05	Yes
POM (7-PAH)	0.00E-03	2.00E-06	2.00E-06	2.0E-06	No

a) Polycyclic Organic Matter (POM) is considered as one TAP comprised of: benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, chrysene, indeno(1,2,3-cd)pyrene, benzo(a)pyrene. The total is compared to benzo(a)pyrene.

Some of the PTEs for carcinogenic TAP were exceeded as a result of this project. The TAP emissions are conservative estimates of emissions from the facility's natural gas combustion sources and not from the production process. Therefore, modeling is required for arsenic, cadmium, formaldehyde, and nickel because the annual average carcinogenic screening ELs identified in IDAPA 58.01.01.586 were exceeded.

Post Project HAP Emissions

The following table presents the post project potential to emit for HAP pollutants from all emissions units at the facility as submitted by the Applicant and verified by DEQ staff. See Appendix A for a detailed presentation of the calculations of these emissions for each emissions unit.

Table 6 HAZARDOUS AIR POLLUTANTS EMISSIONS POTENTIAL TO EMIT SUMMARY

Hazardous Air Pollutants	PTE (lb/hr)	PTE (T/yr)
Benzene	8.33E-05	3.65E-04
3-Methylchloranthrene	7.15E-08	3.13E-07
Benzo(a)pyrene	4.77E-08	2.09E-07
Formaldehyde	2.97E-03	1.30E-02
POM (7-PAH)[a]	4.57E-05	2.00E-06
Hexane	7.15E-02	3.13E-01
Naphthalene	2.42E-05	1.06E-04
Toluene	1.35E-04	5.93E-04
2-Methylnapthalene	9.54E-07	4.18E-06
7, 12 – Dimethylbenz(a)anthracene	6.35E-07	2.78E-06
Acenaphthene	7.15E-08	3.13E-07
Acenaphyhylene	7.15E-08	3.13E-07
Anthracene	9.54E-08	4.18E-07
Dichlorobenzene	4.77E-05	2.09E-04
Flouranthene	1.19E-07	5.22E-07
Fluorene	1.11E-07	4.87E-07
Phenanthrene	6.76E-07	2.96E-06
Benzo(a)anthracene	7.15E-08	3.13E-07
Benzo(b)fluoranthene	7.15E-08	3.13E-07
Benzo(g,h,i)perylene	4.77E-08	2.09E-07
Benzo(k)fluoranthene	7.15E-08	3.13E-07
Chrysene	7.15E-08	3.13E-07
Dibenzo(a,h)anthracene	4.77E-08	2.09E-07
Indeno(1,2,3-cd)pyrene	7.15E-08	3.13E-07
Mercury	1.05E-05	4.59E-05
Arsenic	8.06E-06	3.53E-05
Nickel	8.47E-05	3.71E-04
Beryllium	4.84E-07	2.12E-06
Cadmium	4.43E-05	1.94E-04
Chromium	5.64E-05	2.47E-04
Cobalt	3.40E-06	1.49E-05
Manganese	1.54E-05	6.74E-05
Molybdenum	4.43E-05	1.94E-04
Selenium	9.68E-07	4.24E-06
Totals	**0.08**	**0.33**

Ambient Air Quality Impact Analyses

As presented in the Modeling Memo in Appendix B, the estimated emission rates of PM_{10}, $PM_{2.5}$, NO_x, and TAP from this project exceeded applicable screening emission levels (EL) and published DEQ modeling thresholds established in IDAPA 58.01.01.585-586 and in the State of Idaho Air Quality Modeling Guideline[1]. Refer to the Emissions Inventories section for additional information concerning the emission inventories.

The applicant has demonstrated pre-construction compliance to DEQ's satisfaction that emissions from this facility will not cause or significantly contribute to a violation of any ambient air quality standard. The applicant has also demonstrated pre-construction compliance to DEQ's satisfaction that the emissions increase due to this permitting action will not exceed any acceptable ambient concentration (AAC) or acceptable ambient concentration for carcinogens (AACC) for toxic air pollutants (TAP). A summary of the Ambient Air Impact Analysis for TAP is provided in Appendix A.

An ambient air quality impact analyses document has been crafted by DEQ based on a review of the modeling analysis submitted in the application. That document is part of the final permit package for this permitting action (see Appendix B).

REGULATORY ANALYSIS

Attainment Designation (40 CFR 81.313)

The facility is located in Twin Falls County, which is designated as attainment or unclassifiable for $PM_{2.5}$, PM_{10}, SO_2, NO_2, CO, and Ozone. Refer to 40 CFR 81.313 for additional information.

Permit to Construct (IDAPA 58.01.01.201)

IDAPA 58.01.01.201..... Permit to Construct Required

The permittee has requested that a PTC be issued to the facility for the proposed new emissions source. Therefore, a permit to construct is required to be issued in accordance with IDAPA 58.01.01.220. This permitting action was processed in accordance with the procedures of IDAPA 58.01.01.200-228.

Tier II Operating Permit (IDAPA 58.01.01.401)

IDAPA 58.01.01.401..... Tier II Operating Permit

The application was submitted for a permit to construct (refer to the Permit to Construct section), and an optional Tier II operating permit has not been requested. Therefore, the procedures of IDAPA 58.01.01.400–410 were not applicable to this permitting action.

Visible Emissions (IDAPA 58.01.01.625)

IDAPA 58.01.01.625..... Visible Emissions

The sources of PM_{10} emissions at this facility are subject to the State of Idaho visible emissions standard of 20% opacity. This requirement is assured by Permit Condition 6.

[1] Criteria pollutant thresholds in Table 1, State of Idaho Air Quality Modeling Guideline, Doc ID AQ-011, rev. 1, December 31, 2002.

Standards for New and Minor Sources (IDAPA 58.01.01.676-677)

IDAPA 58.01.01.676..... Standards for New Sources

New fuel burning equipment located at this facility, with a maximum rated input of ten (10) million BTU per hour or more, and minor fuel burning equipment with a maximum rated input of less than ten million BTU per hour, are subject to a particulate matter limitation of 0.015 gr/dscf of effluent gas corrected to 3% oxygen by volume when combusting gaseous fuels. Fuel-Burning Equipment is defined as any furnace, boiler, apparatus, stack and all appurtenances thereto, used in the process of burning fuel for the primary purpose of producing heat or power by indirect heat transfer. This requirement is assured by Permit Condition 5.

Title V Classification (IDAPA 58.01.01.300, 40 CFR Part 70)

IDAPA 58.01.01.301..... Requirement to Obtain Tier I Operating Permit

Post project facility-wide emissions from this facility do not have a potential to emit greater than 100 tons per year for PM_{10}, SO_2, NOx, CO, and VOC or 10 tons per year for any one HAP or 25 tons per year for all HAP combined as demonstrated previously in the Emissions Inventories Section of this analysis. Therefore, the facility is not a Tier I source in accordance with IDAPA 58.01.01.006 and the requirements of IDAPA 58.01.01.301 do not apply.

PSD Classification (40 CFR 52.21)

40 CFR 52.21 ..... Prevention of Significant Deterioration of Air Quality

The facility is not a major stationary source as defined in 40 CFR 52.21(b)(1). This section defines a Major stationary source as:

Any of the following stationary sources of air pollutants which emits, or has the potential to emit, 100 tons per year or more of any regulated NSR pollutant: Fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input, coal cleaning plants (with thermal dryers), kraft pulp mills, portland cement plants, primary zinc smelters, iron and steel mill plants, primary aluminum ore reduction plants (with thermal dryers), primary copper smelters, municipal incinerators capable of charging more than 250 tons of refuse per day, hydrofluoric, sulfuric, and nitric acid plants, petroleum refineries, lime plants, phosphate rock processing plants, coke oven batteries, sulfur recovery plants, carbon black plants (furnace process), primary lead smelters, fuel conversion plants, sintering plants, secondary metal production plants, chemical process plants (which does not include ethanol production facilities that produce ethanol by natural fermentation included in NAICS codes 325193 or 312140), fossil-fuel boilers (or combinations thereof) totaling more than 250 million British thermal units per hour heat input, petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels, taconite ore processing plants, glass fiber processing plants, and charcoal production plants, or

Notwithstanding the stationary source size specified in paragraph (b)(1)(i) of this section, any stationary source which emits, or has the potential to emit, 250 tons per year or more of a regulated NSR pollutant; or

Any physical change that would occur at a stationary source not otherwise qualifying under paragraph (b)(1) of this section, as a major stationary source, if the changes would constitute a major stationary source by itself.

This facility is not one of the facilities designated and does not have facility-wide emissions for any criteria pollutant that exceed 250 T/yr. In addition, the facility is not undergoing any physical change at a stationary source not otherwise qualifying under paragraph 40 CFR 52.21(b)(1) as a major stationary source, that would constitute a major stationary source by itself as defined in 40 CFR 52. Therefore, in accordance with 40 CFR 52.21(a)(2), the PSD requirements do not apply.

NSPS Applicability (40 CFR 60)

The facility is subject to the requirements of 40 CFR 60 Subpart Dc – Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

40 CFR 60, Subpart Dc ..... Standards of Performance for Small Industrial–Commercial–Institutional Steam Generating Units

All five boilers at this facility only combust natural gas as fuel as required by Permit Condition 7. Therefore, the only Sections of this subpart that are applicable to the five boilers at this facility are the Applicability and Delegation of Authority specified in § CFR 60.40c(a), the Recordkeeping requirements of § CFR 60.48c(g) and (i), and the Reporting requirements of § CFR 60.48c(a), (a)(1), and (a)(3).

§ 60.40c Applicability and delegation of authority

(a) Except as provided in paragraphs (d), (e), (f), and (g) of this section, the affected facility to which this subpart applies is each steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr).

(b) In delegating implementation and enforcement authority to a State under section 111(c) of the Clean Air Act, §60.48c(a)(4) shall be retained by the Administrator and not transferred to a State.

(c) Steam generating units that meet the applicability requirements in paragraph (a) of this section are not subject to the sulfur dioxide (SO_2) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (§§60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in §60.41c.

The five Cleaver-Brooks natural gas-fired boilers are rated at between 10 MMBtu/hr and 100 MMBtu/hr and were constructed after June 9, 1989. Therefore, these five natural gas-fired boilers are subject to some of the requirements of this subpart.

§ 60.41c Definitions

The definitions of this section apply to the five natural gas-fired boilers at this facility.

§ 60.48c Reporting and recordkeeping requirements

(a) The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup, as provided by §60.7 of this part. This notification shall include:

(1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

(2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under §60.42c, or §60.43c.

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

(4) Notification if an emerging technology will be used for controlling SO_2 emissions. The Administrator will examine the description of the control device and will determine whether the technology qualifies as an emerging technology. In making this determination, the Administrator may require the owner or operator of the affected facility to submit additional information concerning the control device. The affected facility is subject to the provisions of §60.42c(a) or (b)(1), unless and until this determination is made by the Administrator.

Section (a) requires that the facility submit notification of the date of construction and actual startup, as provided by §60.7 of this part. This notification shall include the design heat input capacity, fuels to be combusted, and the anticipated operating annual capacity factor based on each individual fuel fired.

(g)(1) Except as provided under paragraphs (g)(2) and (g)(3) of this section, the owner or operator of each affected facility shall record and maintain records of the amount of each fuel combusted during each operating day.

(2) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility that combusts only natural gas, wood, fuels using fuel certification in §60.48c(f) to demonstrate compliance with the SO_2standard, fuels not subject to an emissions standard (excluding opacity), or a mixture of these fuels may elect to record and maintain records of the amount of each fuel combusted during each calendar month.

(3) As an alternative to meeting the requirements of paragraph (g)(1) of this section, the owner or operator of an affected facility or multiple affected facilities located on a contiguous property unit where the only fuels combusted in any steam generating unit (including steam generating units not subject to this subpart) at that property are natural gas, wood, distillate oil meeting the most current requirements in §60.42C to use fuel certification to demonstrate compliance with the SO_2standard, and/or fuels, excluding coal and residual oil, not subject to an emissions standard (excluding opacity) may elect to record and maintain records of the total amount of each steam generating unit fuel delivered to that property during each calendar month.

Section (g) requires that the facility maintain records of the amount of fuel combusted in each boiler during each calendar month or the total amount of natural gas delivered to the facility each calendar month.

(i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

Section (i) requires that the facility maintain records for two years following the date of such record.

NESHAP Applicability (40 CFR 61)

The facility is not subject to any NESHAP requirements in 40 CFR 61.

MACT Applicability (40 CFR 63)

Because the facility has cooling towers, boilers, and heaters, the following NSPS requirements may apply to this facility:

- 40 CFR 63, Subpart Q – National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers
- 40 CFR 63, Subpart DDDDD – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters
- 40 CFR 63, Subpart JJJJJJ – National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

40 CFR 63, Subpart Q..... National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers

§ 63.400 Applicability

(a) The provisions of this subpart apply to all new and existing industrial process cooling towers that are operated with chromium-based water treatment chemicals and are either major sources or are integral parts of facilities that are major sources as defined in §63.401.

There are eight one cell cooling towers located at this facility. The requirements of Subpart Q are not applicable to the cooling towers located at this facility because the facility is not a major source of HAP emissions.

40 CFR 63, Subpart DDDDD…….National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

§ 63.7485 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler or process heater as defined in §63.7575 that is located at, or is part of, a major source of HAP as defined in §63.2 or §63.761 (40 CFR part 63, subpart HH, National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), except as specified in §63.7491.

There are five boilers and eight heaters located at this facility. The requirements of Subpart DDDDD are not applicable to the boilers and process heaters located at this facility because the facility is not a major source of HAP emissions.

40 CFR 63, Subpart JJJJJJ……National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources

§ 63.11193 Am I subject to this subpart?

You are subject to this subpart if you own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

§ 63.11195 Are any boilers not subject to this subpart?

The types of boilers listed in paragraphs (a) through (g) of this section are not subject to this subpart and to any requirements in this subpart.

(e) A gas-fired boiler as defined in this subpart.

There are five gas-fired boilers located at this facility. The requirements of Subpart JJJJJJ are not applicable to the gas-fired boilers located at this facility because gas-fired boilers are specifically not subject to Subpart JJJJJJ in accordance with §63.11195(e).

Permit Conditions Review

This section describes the permit conditions for this initial permit.

Initial Permit Conditions 3 and 4

These permit conditions provide a description of the regulated sources and the control devices in use for the yogurt production operations.

Initial Permit Condition 5

This permit condition establishes the particulate matter emission limitation in accordance with IDAPA 58.01.01.676-677. Compliance with this requirement is demonstrated by complying with the requirement to combust only natural gas in the fuel burning equipment.

Initial Permit Condition 6

This permit condition establishes a 20% opacity limit for the yogurt production operation stacks, vents, or functionally equivalent openings associated with the yogurt production operation.

Initial Permit Condition 7

This permit condition requires that all fuel burning equipment regulated in the PTC shall only use natural gas. This requirement was placed in the permit because emission estimates presented in the compliance demonstration in the permit application are based upon using exclusively natural gas.

Initial Permit Condition 8

This permit condition requires that the permittee reasonably control fugitive emissions.

Initial Permit Condition 9

Odor control is required by Idaho State law and is included into the permit in accordance with IDAPA 58.01.01.776.

Permit Condition 10

This permit condition requires that the facility conduct periodic facility-wide inspections of visible emissions to demonstrate compliance with the opacity standard. This requirement is based upon DEQ internal guidance for establishing permit conditions for visible emissions.

Permit Condition 11

This permit condition requires that the facility conduct periodic facility-wide inspections of fugitive dust emissions to demonstrate compliance with the fugitive dust rules. This requirement is based upon DEQ internal guidance for establishing permit conditions for fugitive dust control.

Initial Permit Condition 12

This condition requires that the permittee take appropriate corrective action if/when a valid odor complaint is filed. This must be done to demonstrate compliance with IDAPA 58.01.01.776.

Initial Permit Conditions 13 through 16

These permit conditions are conditions established to comply with the federal requirements of 40 CFR 60 Subpart Dc.

Initial Permit Condition 17

The duty to comply general compliance provision requires that the permittee comply with all of the permit terms and conditions pursuant to Idaho Code §39-101.

Initial Permit Condition 18

The maintenance and operation general compliance provision requires that the permittee maintain and operate all treatment and control facilities at the facility in accordance with IDAPA 58.01.01.211.

Initial Permit Condition 19

The obligation to comply general compliance provision specifies that no permit condition is intended to relieve or exempt the permittee from compliance with applicable local, state and federal requirements, in accordance with IDAPA 58.01.01.212.01.

Initial Permit Condition 20

The inspection and entry provision requires that the permittee allow DEQ inspection and entry pursuant to Idaho Code §39-108.

Initial Permit Condition 21

The permit expiration construction and operation provision specifies that the permit expires if construction has not begun within two years of permit issuance or if construction has been suspended for a year in accordance with IDAPA 58.01.01.211.02.

Initial Permit Condition 22

The notification of construction and operation provision requires that the permittee notify DEQ of the dates of construction and operation, in accordance with IDAPA 58.01.01.211.03.

Initial Permit Condition 23

The performance testing notification of intent provision requires that the permittee notify DEQ at least 15 days prior to any performance test to provide DEQ the option to have an observer present, in accordance with IDAPA 58.01.01.157.03.

Initial Permit Condition 24

The performance test protocol provision requires that any performance testing be conducted in accordance with the procedures of IDAPA 58.01.01.157, and encourages the permittee to submit a protocol to DEQ for approval prior to testing.

Initial Permit Condition 25

The performance test report provision requires that the permittee report any performance test results to DEQ within 30 days of completion, in accordance with IDAPA 58.01.01.157.04-05.

Initial Permit Condition 26

The monitoring and recordkeeping provision requires that the permittee maintain sufficient records to ensure compliance with permit conditions, in accordance with IDAPA 58.01.01.211.

Initial Permit Condition 27

The excess emissions provision requires that the permittee follow the procedures required for excess emissions events, in accordance with IDAPA 58.01.01.130-136.

Initial Permit Condition 28

The certification provision requires that a responsible official certify all documents submitted to DEQ, in accordance with IDAPA 58.01.01.123.

Initial Permit Condition 29

The false statement provision requires that no person make false statements, representations, or certifications, in accordance with IDAPA 58.01.01.125.

Initial Permit Condition 30

The tampering provision requires that no person render inaccurate any required monitoring device or method, in accordance with IDAPA 58.01.01.126.

Initial Permit Condition 31

The transferability provision specifies that this permit to construct is transferable, in accordance with the procedures of IDAPA 58.01.01.209.06.

Initial Permit Condition 32

The severability provision specifies that permit conditions are severable, in accordance with IDAPA 58.01.01.211.

PUBLIC REVIEW

Public Comment Opportunity

An opportunity for public comment period on the application was provided in accordance with IDAPA 58.01.01.209.01.c or IDAPA 58.01.01.404.01.c. During this time, there were comments on the application and there was a request for a public comment period on DEQ's proposed action. Refer to the chronology for public comment opportunity dates.

Public Comment Period

A public comment period was made available to the public in accordance with IDAPA 58.01.01.209.01.c. During this time, comments **were/were not** submitted in response to DEQ's proposed action. Refer to the chronology for public comment period dates.

{comments received} A response to public comments document has been crafted by DEQ based on comments submitted during the public comment period. That document is part of the final permit package for this permitting action.

Public Hearing

{If applicable, include the following, otherwise delete.} In addition to the public comment period, DEQ also provided a public hearing in **CITY** for persons interested to appear and submit written or oral comments. DEQ's responses to the comments submitted during the public hearing are included in the response to public comments document. Refer to the chronology for public hearing dates.

APPENDIX A – EMISSIONS INVENTORIES

AgroFarma Twin Falls - Chobani Facility Baseline Emission Estimate Summary

Criteria Pollutants

Criteria Pollutants Emissions Unit Name	Stack ID	PM ton/year	PM_{10}[1] ton/year	$PM_{2.5}$[1] ton/year	NOx ton/year	SO_2 ton/year	CO ton/year	VOC ton/year	Lead ton/year	HAPs ton/year	GHGs - CO2e ton/year
Cleaver Brooks CBLE-700-800 NG Boiler 1	BOILER1	1.45	1.45	1.45	10.16	0.09	5.17	0.57	7.01E-05	2.60E-01	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 2	BOILER2	1.45	1.45	1.45	10.16	0.09	5.17	0.57	7.01E-05	2.60E-01	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 3	BOILER3	1.45	1.45	1.45	10.16	0.09	5.17	0.57	7.01E-05	2.60E-01	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 4	BOILER4	1.45	1.45	1.45	10.16	0.09	5.17	0.57	7.01E-05	2.60E-01	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 5	BOILER5	1.45	1.45	1.45	10.16	0.09	5.17	0.57	7.01E-05	2.60E-01	16,868.25
Boiler Room MAU 1 - Rupp Air RAM 225 (50,000 cfm, direct fired)	BRMAU 1	0.13	0.13	0.13	1.53	0.01	1.31	0.09	7.71E-06	3.00E-02	1,852.79
Lab MAU - Aaon RN-050 (6,000 cfm, indirect fired RTU)	LABMAU	0.04	0.04	0.04	0.35	2.08E-03	0.31	0.02	1.74E-06	1.00E-02	418.36
Battery MAU - Rupp Air RAM 222 (42,000 cfm, direct fired)	LABMAU	0.13	0.13	0.13	1.53	0.01	1.31	0.09	7.71E-06	3.00E-02	1,852.79
Main Office RTU 1 - Carrier 48A5,T,030 (indirect fired)	RTU1	0.02	0.02	0.02	0.22	1.35E-03	0.18	0.01	1.13E-06	4.27E-03	271.31
Main Office RTU 2 - Carrier 48A5,T,030 (indirect fired)	RTU2	0.02	0.02	0.02	0.22	1.35E-03	0.18	0.01	1.13E-06	4.27E-03	271.31
Main Office RTU 3 - Carrier 48A5,T,030 (indirect fired)	RTU3	0.02	0.02	0.02	0.22	1.35E-03	0.18	0.01	1.13E-06	4.27E-03	271.31
Main Office RTU 4 - Carrier 48A5,T,030 (indirect fired)	RTU4	0.02	0.02	0.02	0.22	1.35E-03	0.18	0.01	1.13E-06	4.27E-03	271.31
Main Office RTU 5 - Carrier 48A5,T,030 (indirect fired)	RTU5	0.02	0.02	0.02	0.22	1.35E-03	0.18	0.01	1.13E-06	4.27E-03	271.31
Main Office RTU 5 - Carrier 48A5,T,030 (indirect fired)	RTU6	0.04	0.04	0.04	0.22	1.35E-03	0.18	0.01	1.13E-06	4.27E-03	271.31
Meeting/RR/Plant Offices/Maintenance Office RTU - Carrier 48A5,S,020 (indirect fired)	PLANT	0.01	0.01	0.01	0.13	9.02E-04	0.13	0.01	7.53E-07	2.83E-03	180.70
Mantenance/Parts/Fab RTU - Carrier 48A5,S,060 (indirect fired)	MAINT	0.04	0.04	0.04	0.48	3.00E-03	0.44	0.04	2.50E-06	1.00E-02	601.10
Reznor VR-2---60 Receiveing Bay IRH 1	IRH1	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 2	IRH2	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 3	IRH3	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 4	IRH4	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 5	IRH5	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 6	IRH6	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 7	IRH7	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.25
Reznor VR-2---60 Receiveing Bay IRH 8	IRH8	0.01	0.01	0.01	0.09	5.17E-04	0.09	4.73E-03	4.29E-07	1.63E-03	103.21
8 One Cell Cooling Towers	CT01-CT12	3.68	1.10	1.10	--	--	--	--	--	--	--
Anhydrous Ammonia Refrigeration System (8 Chillers)	REFRIG	--	--	--	--	--	--	--	--	--	--
Total		**11.50**	**8.92**	**8.92**	**56.86**	**0.49**	**31.15**	**3.20**	**3.81E-04**	**1.42**	**91,701**

[1]Assumes $PM_{2.5}$ and PM_{10} emissions are equal to PM emissions.

AgroFarma Twin Falls - Chobani Facility Baseline Emission Estimate Summary

Toxic Air Pollutant Emissions Inventory

Non-Carcinogenic Toxic Air Pollutants (sum of all emissions)	Ammonia	Pentane	Hexane	Naphthalene	Toluene	Cobalt	Manganese	Molybdenum	Selenium	Vanadium	Zinc	Barium	Copper
	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Cleaver Brooks Boiler 1	--	8.32E-02	5.76E-02	1.95E-05	1.09E-04	2.69E-06	1.22E-05	3.52E-05	7.68E-07	7.36E-05	9.28E-04	1.41E-04	2.72E-05
Cleaver Brooks Boiler 2	--	8.32E-02	5.76E-02	1.95E-05	1.09E-04	2.69E-06	1.22E-05	3.52E-05	7.68E-07	7.36E-05	9.28E-04	1.41E-04	2.72E-05
Cleaver Brooks Boiler 3	--	8.32E-02	5.76E-02	1.95E-05	1.09E-04	2.69E-06	1.22E-05	3.52E-05	7.68E-07	7.36E-05	9.28E-04	1.41E-04	2.72E-05
Cleaver Brooks Boiler 4	--	8.32E-02	5.76E-02	1.95E-05	1.09E-04	2.69E-06	1.22E-05	3.52E-05	7.68E-07	7.36E-05	9.28E-04	1.41E-04	-2.72E-05
Cleaver Brooks Boiler 5	--	8.32E-02	5.76E-02	1.95E-05	1.09E-04	2.69E-06	1.22E-05	3.52E-05	7.68E-07	7.36E-05	9.28E-04	1.41E-04	2.72E-05
Boiler Room MAU 1	--	9.15E-03	6.34E-03	2.15E-06	1.20E-05	2.96E-07	1.34E-06	3.87E-06	8.45E-08	8.10E-06	1.02E-04	1.55E-05	2.99E-06
Lab MAU	--	2.06E-03	1.43E-03	4.84E-07	2.70E-06	6.67E-08	3.02E-07	8.73E-07	1.91E-08	1.83E-06	2.30E-05	3.49E-06	6.75E-07
Battery MAU	--	9.15E-03	6.34E-03	2.15E-06	1.20E-05	2.96E-07	1.34E-06	3.87E-06	8.45E-08	8.10E-06	1.02E-04	1.55E-05	2.99E-06
Main Office RTU 1	--	1.34E-03	9.27E-04	3.14E-07	1.75E-06	4.33E-08	1.96E-07	5.67E-07	1.24E-08	1.18E-06	1.49E-05	2.27E-06	4.38E-07
Main Office RTU 2	--	1.34E-03	9.27E-04	3.14E-07	1.75E-06	4.33E-08	1.96E-07	5.67E-07	1.24E-08	1.18E-06	1.49E-05	2.27E-06	4.38E-07
Main Office RTU 3	--	1.34E-03	9.27E-04	3.14E-07	1.75E-06	4.33E-08	1.96E-07	5.67E-07	1.24E-08	1.18E-06	1.49E-05	2.27E-06	4.38E-07
Main Office RTU 4	--	1.34E-03	9.27E-04	3.14E-07	1.75E-06	4.33E-08	1.96E-07	5.67E-07	1.24E-08	1.18E-06	1.49E-05	2.27E-06	4.38E-07
Main Office RTU 5	--	1.34E-03	9.27E-04	3.14E-07	1.75E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Main Office RTU 6	--	1.34E-03	9.27E-04	3.14E-07	1.75E-06	4.33E-08	1.96E-07	5.67E-07	1.24E-08	1.18E-06	1.49E-05	2.27E-06	4.38E-07
Meeting/RR/Plant Offices/Maintenance Office RTU	--	8.92E-04	6.17E-04	2.09E-07	1.17E-06	2.88E-08	1.30E-07	3.77E-07	8.23E-09	7.89E-07	9.95E-06	1.51E-06	2.92E-07
Maintenance/Parts/Fab RTU	--	8.92E-04	6.17E-04	2.09E-07	1.17E-06	2.88E-08	1.30E-07	3.77E-07	8.23E-09	7.89E-07	9.95E-06	1.51E-06	2.92E-07
Receiving Bay IRH 1	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Receiving Bay IRH 2	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Receiving Bay IRH 3	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Receiving Bay IRH 4	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Receiving Bay IRH 5	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Receiving Bay IRH 6	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Receiving Bay IRH 7	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Receiving Bay IRH 8	--	5.10E-04	3.53E-04	1.20E-07	6.66E-07	1.65E-08	7.45E-08	2.16E-07	4.70E-09	4.51E-07	5.68E-06	8.62E-07	1.67E-07
Anhydrous Ammonia Refrigeration System (11 Chillers)	2.23	--	--	--	--	--	--	--	--	--	--	--	--
Total Emissions Rate	2.23	0.45	0.31	1.06E-04	5.90E-04	1.45E-05	6.57E-05	1.90E-04	4.14E-06	3.97E-04	5.00E-03	7.60E-04	9.22E-05
IDAPA 58.01.01.585 Screening Emission Level	1.2	1.18E+02	1.20E+01	9.10E-05	2.50E+01	3.30E-03	6.70E-02	3.33E-01	1.30E-02	3.00E-03	3.33E-01	3.30E-02	1.30E-02
Exceeds Screening Level?	**Exceeds**	Below	Below	**Exceeds**	Below	Below	Below	Below	Below	Below	Below	Below	Below

AgroFarma Twin Falls - Chobani Facility Baseline Emission Estimate Summary

Toxic Air Pollutant Emissions Inventory

Carcinogenic Toxic Air Pollutants (sum of all emissions)	Benzene	3-Methylchloranthrene	Benzo(a)pyrene*	Formaldehyde	POM (7-PAH)[4]	Arsenic	Nickel	Beryllium	Cadmium	Chromium
	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr	lb/hr
Cleaver Brooks Boiler 1	6.72E-05	5.76E-08	3.84E-08	2.40E-03	3.65E-07	6.40E-06	6.72E-05	3.84E-07	3.52E-05	4.48E-05
Cleaver Brooks Boiler 2	6.72E-05	5.76E-08	3.84E-08	2.40E-03	3.65E-07	6.40E-06	6.72E-05	3.84E-07	3.52E-05	4.48E-05
Cleaver Brooks Boiler 3	6.72E-05	5.76E-08	3.84E-08	2.40E-03	3.65E-07	6.40E-06	6.72E-05	3.84E-07	3.52E-05	4.48E-05
Cleaver Brooks Boiler 4	6.72E-05	5.76E-08	3.84E-08	2.40E-03	3.65E-07	6.40E-06	6.72E-05	3.84E-07	3.52E-05	4.48E-05
Cleaver Brooks Boiler 5	6.72E-05	5.76E-08	3.84E-08	2.40E-03	3.65E-07	6.40E-06	6.72E-05	3.84E-07	3.52E-05	4.48E-05
Boiler Room MAU 1	7.39E-06	6.34E-09	4.22E-09	2.64E-04	4.44E-08	7.04E-07	7.39E-06	4.22E-08	3.87E-06	4.93E-06
Lab MAU	1.67E-06	1.43E-09	9.53E-10	5.96E-05	1.00E-08	1.59E-07	1.67E-06	9.53E-09	8.73E-07	1.11E-06
Battery MAU	7.39E-06	6.34E-09	4.22E-09	2.64E-04	4.44E-08	7.04E-07	7.39E-06	4.22E-08	3.87E-06	4.93E-06
Main Office RTU 1	1.08E-06	9.27E-10	6.18E-10	3.86E-05	6.49E-09	1.03E-07	1.08E-06	6.18E-09	5.67E-07	7.21E-07
Main Office RTU 2	1.08E-06	9.27E-10	6.18E-10	3.86E-05	6.49E-09	1.03E-07	1.08E-06	6.18E-09	5.67E-07	7.21E-07
Main Office RTU 3	1.08E-06	9.27E-10	6.18E-10	3.86E-05	6.49E-09	1.03E-07	1.08E-06	6.18E-09	5.67E-07	7.21E-07
Main Office RTU 4	1.08E-06	9.27E-10	6.18E-10	3.86E-05	6.49E-09	1.03E-07	1.08E-06	6.18E-09	5.67E-07	7.21E-07
Main Office RTU 5	1.08E-06	9.27E-10	6.18E-10	3.86E-05	6.49E-09	1.03E-07	1.08E-06	6.18E-09	5.67E-07	7.21E-07
Main Office RTU 6	1.08E-06	9.27E-10	6.18E-10	3.86E-05	6.49E-09	1.03E-07	1.08E-06	6.18E-09	5.67E-07	7.21E-07
Meeting/RR/Plant Offices/Maintenance Office RTU	7.20E-07	6.17E-10	4.12E-10	2.57E-05	4.32E-09	6.86E-08	7.20E-07	4.12E-09	3.77E-07	4.80E-07
Maintenance/Parts/Fab RTU	7.20E-07	6.17E-10	4.12E-10	2.57E-05	4.32E-09	6.86E-08	7.20E-07	4.12E-09	3.77E-07	4.80E-07
Receiving Bay IRH 1	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 2	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 3	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 4	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 5	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 6	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 7	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Receiving Bay IRH 8	4.12E-07	3.53E-10	2.35E-10	1.47E-05	2.47E-09	3.92E-08	4.12E-07	2.35E-09	2.16E-07	2.74E-07
Ammonia Refrigeratioin	--	--	--	--	--	--	--	--	--	--
Total Emissions Rate	**3.64E-04**	**3.12E-07**	**2.08E-07**	**1.30E-02**	**1.99E-06**	**3.46E-05**	**3.64E-04**	**2.08E-06**	**1.90E-04**	**2.42E-04**
Carcinogenic Screening Emission Level 58.01.01.586	8.00E-04	2.50E-06	2.00E-06	5.10E-04	2.00E-06	1.50E-06	2.75E-05	2.80E-05	3.70E-06	3.30E-02
Exceeds Screening Level?	Below	Below	Below	**Exceed**	Below	**Exceed**	**Exceed**	Below	**Exceed**	Below

AgroFarma Twin Falls - Chobani Facilty Emission Estimates

MAUs (NG)

Annual Operation 8,760 hours/year

Criteria Pollutant	Emission Factor[1]	Unit	Boiler Room MAU 1 - Rupp Air RAM 225 (50,000 cfm, direct fired) Input MMBTU/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	Lab MAU - Aaon RN-050 (6,000 cfm, indirect fired RTU) Input MMBTU/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	Battery MAU - Rupp Air RAM 222 (42,000 cfm, direct fired) Input MMBTU/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)
Total Particulate Matter (PM)	7.6	lb/10^{6}SCF	3.587	0.03	0.13	0.810	0.01	0.04	3.587	0.03	0.13
Nitrogen Oxides (NOx)	100	lb/10^{6}SCF	3.587	0.35	1.53	0.810	0.08	0.35	3.587	0.35	1.53
Sulfur Dioxide (SO_2)	0.6	lb/10^{6}SCF	3.587	2.11E-03	9.24E-03	0.810	4.76E-04	2.08E-03	3.587	2.11E-03	9.24E-03
Carbon Monoxide (CO)	84	lb/10^{6}SCF	3.587	0.30	1.31	0.810	0.07	0.31	3.587	0.30	1.31
VOC	5.5	lb/10^{6}SCF	3.587	0.02	0.09	0.810	4.37E-03	1.91E-02	3.587	0.02	0.09
Lead	5.00E-04	lb/10^{6}SCF	3.587	1.76E-06	7.71E-06	0.810	3.97E-07	1.74E-06	3.587	1.76E-06	7.71E-06

Toxic Air Pollutants Non-metals [2]	CAS No.	CAA 112(b) HAP	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Boiler Room MAU 1 - Rupp Air RAM 225 (50,000 cfm, direct fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	Lab MAU - Aaon RN-050 (6,000 cfm, indirect fired RTU) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	Battery MAU - Rupp Air RAM 222 (42,000 cfm, direct fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL
Pentane	109-66-0	No	2.60E+00	3.52E-03	9.15E-03	4.01E-02	1.18E+02	Below	7.94E-04	2.06E-03	9.02E-03	1.18E+02	Below	3.52E-03	9.15E-03	4.01E-02	1.18E+02	Below
Benzene	71-43-2	Yes	2.10E-03	3.52E-03	7.39E-06	3.24E-05	8.00E-04	Below	7.94E-04	1.67E-06	7.31E-06	8.00E-04	Below	3.52E-03	7.39E-06	3.24E-05	8.00E-04	Below
3-Methylchloranthrene	56-49-5	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08	2.50E-06	Below	7.94E-04	1.43E-09	6.26E-09	2.50E-06	Below	3.52E-03	6.34E-09	2.78E-08	2.50E-06	Below
Benzo(a)pyrene*	50-32-8	Yes	1.20E-06	3.52E-03	4.22E-09	1.85E-08	2.00E-06	Below	7.94E-04	9.53E-10	4.17E-09	2.00E-06	Below	3.52E-03	4.22E-09	1.85E-08	2.00E-06	Below
Formaldehyde	50-00-0	Yes	7.50E-02	3.52E-03	2.64E-04	1.16E-03	5.10E-04	Below	7.94E-04	5.96E-05	2.61E-04	5.10E-04	Below	3.52E-03	2.64E-04	1.16E-03	5.10E-04	Below
POM (7-PAH)[3]		Yes		3.52E-03	4.44E-08	1.95E-07	2.00E-06	Below	7.94E-04	1.00E-08	4.38E-08	2.00E-06	Below	3.52E-03	4.44E-08	1.95E-07	2.00E-06	Below
Hexane	110-54-3	Yes	1.80E+00	3.52E-03	6.34E-03	2.78E-02	1.20E+01	Below	7.94E-04	1.43E-03	6.26E-03	1.20E+01	Below	3.52E-03	6.34E-03	2.78E-02	1.20E+01	Below
Naphthalene	91-20-3	Yes	6.10E-04	3.52E-03	2.15E-06	9.42E-06	9.10E-05	Below	7.94E-04	4.84E-07	2.12E-06	9.10E-05	Below	3.52E-03	2.15E-06	9.42E-06	9.10E-05	Below
Toluene	108-88-3	Yes	3.40E-03	3.52E-03	1.20E-05	5.26E-05	2.50E+01	Below	7.94E-04	2.70E-06	1.18E-05	2.50E+01	Below	3.52E-03	1.20E-05	5.26E-05	2.50E+01	Below
2-Methylnapthalene	97-57-6	Yes	2.40E-05	3.52E-03	8.45E-08	3.70E-07			7.94E-04	1.91E-08	8.37E-08			3.52E-03	8.45E-08	3.70E-07		
7, 12 - Dimethylbenz(a)anthracene		Yes	1.60E-05	3.52E-03	5.63E-08	2.47E-07			7.94E-04	1.27E-08	5.56E-08			3.52E-03	5.63E-08	2.47E-07		
Acenaphthene	83-32-9	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		
Acenaphyhylene	203-96-8	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		
Anthracene	120-12-7	Yes	2.40E-06	3.52E-03	8.45E-09	3.70E-08			7.94E-04	1.91E-09	8.37E-09			3.52E-03	8.45E-09	3.70E-08		
Dichlorobenzene	25321-22-6	Yes	1.20E-03	3.52E-03	4.22E-06	1.85E-05			7.94E-04	9.53E-07	4.17E-06			3.52E-03	4.22E-06	1.85E-05		
Flouranthene	206-44-0	Yes	3.00E-06	3.52E-03	1.06E-08	4.64E-08			7.94E-04	2.38E-09	1.04E-08			3.52E-03	1.06E-08	4.64E-08		
Fluorene	86-73-7	Yes	2.80E-06	3.52E-03	9.86E-09	4.32E-08			7.94E-04	2.22E-09	9.72E-09			3.52E-03	9.86E-09	4.32E-08		
Phenanthrene	85-01-8	Yes	1.70E-05	3.52E-03	5.98E-08	2.62E-07			7.94E-04	1.35E-08	5.91E-08			3.52E-03	5.98E-08	2.62E-07		
Benzo(a)anthracene*	56-55-3	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		
Benzo(b)fluoranthene*	205-82-3	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		
Benzo(g,h,i)perylene	191-24-2	Yes	1.20E-06	3.52E-03	4.22E-09	1.85E-08			7.94E-04	9.53E-10	4.17E-09			3.52E-03	4.22E-09	1.85E-08		
Benzo(k)fluoranthene*	205-82-3	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		
Chrysene*	218-01-9	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		
Dibenzo(a,h)anthracene*	53-70-3	Yes	1.20E-06	3.52E-03	4.22E-09	1.85E-08			7.94E-04	9.53E-10	4.17E-09			3.52E-03	4.22E-09	1.85E-08		
Indeno(1,2,3-cd)pyrene*	193-39-5	Yes	1.80E-06	3.52E-03	6.34E-09	2.78E-08			7.94E-04	1.43E-09	6.26E-09			3.52E-03	6.34E-09	2.78E-08		

Toxic Air Pollutants Metals [4]	CAS Number	CAA 112(b) HAP	Emission Factor (lb/10^6 scf)	Boiler Room MAU 1 - Rupp Air RAM 225 (50,000 cfm, direct fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	Lab MAU - Aaon RN-050 (6,000 cfm, indirect fired RTU) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	Battery MAU - Rupp Air RAM 222 (42,000 cfm, direct fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL
Mercury	7439-97-6	Yes	2.60E-04	3.52E-03	9.15E-07	4.01E-06			7.94E-04	2.06E-07	9.02E-07			3.52E-03	9.15E-07	4.01E-06		
Arsenic	7440-38-2	Yes	2.00E-04	3.52E-03	7.04E-07	3.08E-06	1.50E-06	Below	7.94E-04	1.59E-07	6.96E-07	1.50E-06	Below	3.52E-03	7.04E-07	3.08E-06	1.50E-06	Below
Nickel	7440-02-0	Yes	2.10E-03	3.52E-03	7.39E-06	3.24E-05	2.75E-05	Below	7.94E-04	1.67E-06	7.31E-06	2.75E-05	Below	3.52E-03	7.39E-06	3.24E-05	2.75E-05	Below
Beryllium	7440-41-7	Yes	1.20E-05	3.52E-03	4.22E-08	1.85E-07	2.80E-05	Below	7.94E-04	9.53E-09	4.17E-08	2.80E-05	Below	3.52E-03	4.22E-08	1.85E-07	2.80E-05	Below
Cadmium	7440-43-9	Yes	1.10E-03	3.52E-03	3.87E-06	1.70E-05	3.70E-06	Exceeds	7.94E-04	8.73E-07	3.82E-06	3.70E-06	Below	3.52E-03	3.87E-06	1.70E-05	3.70E-06	Exceeds
Chromium	7440-47-3	Yes	1.40E-03	3.52E-03	4.93E-06	2.16E-05	3.30E-02	Below	7.94E-04	1.11E-06	4.86E-06	3.30E-02	Below	3.52E-03	4.93E-06	2.16E-05	3.30E-02	Below
Cobalt	7440-48-4	Yes	8.40E-05	3.52E-03	2.96E-07	1.30E-06	3.30E-03	Below	7.94E-04	6.67E-08	2.92E-07	3.30E-03	Below	3.52E-03	2.96E-07	1.30E-06	3.30E-03	Below
Manganese	7439-96-5	Yes	3.80E-04	3.52E-03	1.34E-06	5.87E-06	6.70E-02	Below	7.94E-04	3.02E-07	1.32E-06	6.70E-02	Below	3.52E-03	1.34E-06	5.87E-06	6.70E-02	Below
Molybdenum	7439-98-7	Yes	1.10E-03	3.52E-03	3.87E-06	1.70E-05	3.33E-01	Below	7.94E-04	8.73E-07	3.82E-06	3.33E-01	Below	3.52E-03	3.87E-06	1.70E-05	3.33E-01	Below
Selenium	7782-49-2	Yes	2.40E-05	3.52E-03	8.45E-08	3.70E-07	1.30E-02	Below	7.94E-04	1.91E-08	8.37E-08	1.30E-02	Below	3.52E-03	8.45E-08	3.70E-07	1.30E-02	Below
Vanadium	1314-62-1	No	2.30E-03	3.52E-03	8.10E-06	3.55E-05	3.00E-03	Below	7.94E-04	1.83E-06	8.02E-06	3.00E-03	Below	3.52E-03	8.10E-06	3.55E-05	3.00E-03	Below
Zinc	7440-66-6	No	2.90E-02	3.52E-03	1.02E-04	4.47E-04	3.33E-01	Below	7.94E-04	2.30E-05	1.01E-04	3.33E-01	Below	3.52E-03	1.02E-04	4.47E-04	3.33E-01	Below
Barium	7440-39-3	No	4.40E-03	3.52E-03	1.55E-05	6.79E-05	3.30E-02	Below	7.94E-04	3.49E-06	1.53E-05	3.30E-02	Below	3.52E-03	1.55E-05	6.79E-05	3.30E-02	Below
Copper	7440-50-8	No	8.50E-04	3.52E-03	2.99E-06	1.31E-05	1.30E-02	Below	7.94E-04	6.75E-07	2.96E-06	1.30E-02	Below	3.52E-03	2.99E-06	1.31E-05	1.30E-02	Below
				Total Non-Metal HAPs	6.63E-03	2.91E-02			Total Non-Metal HAPs	1.50E-03	6.55E-03			Total Non-Metal HAPs	6.63E-03	2.91E-02		
				Total Metal HAPs	2.34E-05	1.03E-04			Total Metal HAPs	5.29E-06	2.31E-05			Total Metal HAPs	2.34E-05	1.03E-04		
				Total HAPs	0.01	0.03			Total HAPs	1.51E-03	0.01			Total HAPs	0.01	0.03		

Notes:

[1] Criteria Pollutant emission factors for small uncontrolled boilers as stated AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-1 and 1.4-2. PM emission factor is assumed to equal PM10.
Conversion Factor: 1020 BTU/SCF

[2] Toxic Air Pollutants emission factors from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3.

[3] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[4] Toxic Air Pollutant Metal emission factors from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4.

AgroFarma Twin Falls - Chobani Facilty Emission Estimates
MAUs (NG)
Annual Operation 8,760 hours/year

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Boiler Room MAU 1 - Rupp Air RAM 225 (50,000 cfm, direct fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Lab MAU - Aaon RN-050 (6,000 cfm, indirect fired RTU) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Battery MAU - Rupp Air RAM 222 (42,000 cfm, direct fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C Equation C-1 Tier 1	3,517	30,808,920	1679.23	794	6,955,440	379.10	3,517	30,808,920	1679.23
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	3,517	30,808,920	3.17E-03	794	6,955,440	7.15E-04	3,517	30,808,920	3.17E-03
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	3,517	30,808,920	0.03	794	6,955,440	0.01	3,517	30,808,920	0.03
CO2e			40 CFR 98 Part A			1,680.84			379.53			1,680.84

Notes
[5]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times$ Fuel x HHV x EF
Fuel = Volume of fuel combusted per year, (SCF/Year)
EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)
HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)
1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[6]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times$ Fuel x HHV x EF
Fuel = Volume of fuel combusted per year, (SCF/Year)
EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)
HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)
1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)
Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Faciltiy Emission Estimate

IRHs (NG)

Annual Operation 8,760 hours/year

Emission Unit	Input MMBTU/hr
Reznor VR-2---60 Receiveing Bay IRH 1	0.200
Reznor VR-2---60 Receiveing Bay IRH 2	0.200
Reznor VR-2---60 Receiveing Bay IRH 3	0.200
Reznor VR-2---60 Receiveing Bay IRH 4	0.200
Reznor VR-2---60 Receiveing Bay IRH 5	0.200
Reznor VR-2---60 Receiveing Bay IRH 6	0.200
Reznor VR-2---60 Receiveing Bay IRH 7	0.200
Reznor VR-2---60 Receiveing Bay IRH 8	0.200

		Reznor VR-2---60 Receiveing Bay IRH 1		Reznor VR-2---60 Receiveing Bay IRH 2		Reznor VR-2---60 Receiveing Bay IRH 3		Reznor VR-2---60 Receiveing Bay IRH 4		Reznor VR-2---60 Receiveing Bay IRH 5		Reznor VR-2---60 Receiveing Bay IRH 6		Reznor VR-2---60 Receiveing Bay IRH 7		Reznor VR-2---60 Receiveing Bay IRH 8	
Criteria Pollutant	**Emission Factor[1]** lb/10^6SCF	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)
Total Particulate Matter (PM)	7.6	1.49E-03	0.01	1.49E-03	0.01	1.49E-03	0.01	1.49E-03	0.01	1.49E-03	0.01	1.49E-03	0.01	1.49E-03	0.01	1.49E-03	0.01
Nitrogen Oxides (NOx)	100	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09
Sulfur Dioxide (SO_2)	0.6	1.18E-04	5.17E-04	1.18E-04	5.17E-04	1.18E-04	5.17E-04	1.18E-04	5.17E-04	1.18E-04	5.17E-04	1.18E-04	5.17E-04	1.18E-04	5.17E-04	1.18E-04	5.17E-04
Carbon Monoxide (CO)	84	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09	0.02	0.09
VOC	5.5	1.08E-03	4.73E-03	1.08E-03	4.73E-03	1.08E-03	4.73E-03	1.08E-03	4.73E-03	1.08E-03	4.73E-03	1.08E-03	4.73E-03	1.08E-03	4.73E-03	1.08E-03	4.73E-03
Lead	5.00E-04	9.80E-08	4.29E-07	9.80E-08	4.29E-07	9.80E-08	4.29E-07	9.80E-08	4.29E-07	9.80E-08	4.29E-07	9.80E-08	4.29E-07	9.80E-08	4.29E-07	9.80E-08	4.29E-07

AgroFarma Twin Falls - Chobani Faciltiy Emission Estimate

IRHs (NG)

Annual Operation 8,760 hours/year

Toxic Air Pollutants Non-metals [2]	CAS No.	CAA 112(b) HAP	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Reznor VR-2---60 Receiveing Bay IRH 1 Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 2 Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 3 Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL
Pentane	109-66-0	No	2.60E+00	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below
Benzene	71-43-2	Yes	2.10E-03	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below
3-Methylchloranthrene	56-49-5	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below
Benzo(a)pyrene*	50-32-8	Yes	1.20E-06	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below
Formaldehyde	50-00-0	Yes	7.50E-02	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below
POM (7-PAH)[3]		Yes		1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below	1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below	1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below
Hexane	110-54-3	Yes	1.80E+00	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below
Naphthalene	91-20-3	Yes	6.10E-04	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below
Toluene	108-88-3	Yes	3.40E-03	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below
2-Methylnapthalene	97-57-6	Yes	2.40E-05	1.96E-04	4.70E-09	2.06E-08			1.96E-04	4.70E-09	2.06E-08			1.96E-04	4.70E-09	2.06E-08		
7, 12 - Dimethylbenz(a)anthracene		Yes	1.60E-05	1.96E-04	3.14E-09	1.38E-08			1.96E-04	3.14E-09	1.38E-08			1.96E-04	3.14E-09	1.38E-08		
Acenaphthene	83-32-9	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Acenaphyhylene	203-96-8	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Anthracene	120-12-7	Yes	2.40E-06	1.96E-04	4.70E-10	2.06E-09			1.96E-04	4.70E-10	2.06E-09			1.96E-04	4.70E-10	2.06E-09		
Dichlorobenzene	25321-22-6	Yes	1.20E-03	1.96E-04	2.35E-07	1.03E-06			1.96E-04	2.35E-07	1.03E-06			1.96E-04	2.35E-07	1.03E-06		
Flouranthene	206-44-0	Yes	3.00E-06	1.96E-04	5.88E-10	2.58E-09			1.96E-04	5.88E-10	2.58E-09			1.96E-04	5.88E-10	2.58E-09		
Fluorene	86-73-7	Yes	2.80E-06	1.96E-04	5.49E-10	2.40E-09			1.96E-04	5.49E-10	2.40E-09			1.96E-04	5.49E-10	2.40E-09		
Phenanthrene	85-01-8	Yes	1.70E-05	1.96E-04	3.33E-09	1.46E-08			1.96E-04	3.33E-09	1.46E-08			1.96E-04	3.33E-09	1.46E-08		
Benzo(a)anthracene*	56-55-3	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Benzo(b)fluoranthene*	205-82-3	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Benzo(g,h,i)perylene	191-24-2	Yes	1.20E-06	1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09		
Benzo(k)fluoranthene*	205-82-3	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Chrysene*	218-01-9	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Dibenzo(a,h)anthracene*	53-70-3	Yes	1.20E-06	1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09		
Indeno(1,2,3-cd)pyrene*	193-39-5	Yes	1.80E-06	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		

Toxic Air Pollutants Metals [4]	CAS Number	CAA 112(b) HAP	Emission Factor (lb/10^6 scf)	Reznor VR-2---60 Receiveing Bay IRH 1 Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 2 Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 3 Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL
Mercury	7439-97-6	Yes	2.60E-04	1.96E-04	5.10E-08	2.23E-07			1.96E-04	5.10E-08	2.23E-07			1.96E-04	5.10E-08	2.23E-07		
Arsenic	7440-38-2	Yes	2.00E-04	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below
Nickel	7440-02-0	Yes	2.10E-03	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below
Beryllium	7440-41-7	Yes	1.20E-05	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below
Cadmium	7440-43-9	Yes	1.10E-03	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below
Chromium	7440-47-3	Yes	1.40E-03	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below
Cobalt	7440-48-4	Yes	8.40E-05	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below
Manganese	7439-96-5	Yes	3.80E-04	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below
Molybdenum	7439-98-7	Yes	1.10E-03	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below
Selenium	7782-49-2	Yes	2.40E-05	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below
Vanadium	1314-62-1	No	2.30E-03	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below
Zinc	7440-66-6	No	2.90E-02	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below
Barium	7440-39-3	No	4.40E-03	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below
Copper	7440-50-8	No	8.50E-04	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below
			Total Non-Metal HAPs		3.69E-04	1.62E-03			**Total Non-Metal HAPs**	3.69E-04	1.62E-03			**Total Non-M**	3.69E-04	1.62E-03		**Total**
			Total Metal HAPs		1.31E-06	5.72E-06			**Total Metal HAPs**	1.31E-06	5.72E-06			**Total Metal**	1.31E-06	5.72E-06		**T**
			Total HAPs		3.70E-04	1.63E-03			**Total HAPs**	3.70E-04	1.63E-03			**Total HAPs**	3.70E-04	1.63E-03		

Notes:

[1] Criteria Pollutant emission factors for small uncontrolled boilers as stated AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-1 and 1.4-2. PM emission factor is assumed to equal PM10.
Conversion Factor: 1020 BTU/SCF

[2] Toxic Air Pollutants emission factors from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3.

[3] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[4] Toxic Air Pollutant Metal emission factors from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4.

AgroFarma Twin Falls - Chobani Faci
IRHs (NG)
Annual Operation 8,760

Toxic Air Pollutants Non-metals [2]	CAS No.	Reznor VR-2---60 Receiveing Bay IRH 4 Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 5 Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL
		10^6SCF/hr	(lb/hr)	(ton/year)	(lb/hr)		10^6SCF/hr	(lb/hr)	(ton/year)	(lb/hr)	
Pentane	109-66-0	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below
Benzene	71-43-2	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below
3-Methylchloranthrene	56-49-5	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below
Benzo(a)pyrene*	50-32-8	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below
Formaldehyde	50-00-0	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below
POM (7-PAH)[3]		1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below	1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below
Hexane	110-54-3	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below
Naphthalene	91-20-3	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below
Toluene	108-88-3	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below
2-Methylnapthalene	97-57-6	1.96E-04	4.70E-09	2.06E-08			1.96E-04	4.70E-09	2.06E-08		
7, 12 - Dimethylbenz(a)anthracene		1.96E-04	3.14E-09	1.38E-08			1.96E-04	3.14E-09	1.38E-08		
Acenaphthene	83-32-9	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Acenaphyhylene	203-96-8	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Anthracene	120-12-7	1.96E-04	4.70E-10	2.06E-09			1.96E-04	4.70E-10	2.06E-09		
Dichlorobenzene	25321-22-6	1.96E-04	2.35E-07	1.03E-06			1.96E-04	2.35E-07	1.03E-06		
Flouranthene	206-44-0	1.96E-04	5.88E-10	2.58E-09			1.96E-04	5.88E-10	2.58E-09		
Fluorene	86-73-7	1.96E-04	5.49E-10	2.40E-09			1.96E-04	5.49E-10	2.40E-09		
Phenanthrene	85-01-8	1.96E-04	3.33E-09	1.46E-08			1.96E-04	3.33E-09	1.46E-08		
Benzo(a)anthracene*	56-55-3	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Benzo(b)fluoranthene*	205-82-3	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Benzo(g,h,i)perylene	191-24-2	1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09		
Benzo(k)fluoranthene*	205-82-3	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Chrysene*	218-01-9	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Dibenzo(a,h)anthracene*	53-70-3	1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09		
Indeno(1,2,3-cd)pyrene*	193-39-5	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		

Toxic Air Pollutants Metals [4]	CAS Number	Reznor VR-2---60 Receiveing Bay IRH 4 Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 5 Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL
		10^6SCF/hr	(lb/hr)	(ton/year)	(lb/hr)		10^6SCF/hr	(lb/hr)	(ton/year)	(lb/hr)	
Mercury	7439-97-6	1.96E-04	5.10E-08	2.23E-07			1.96E-04	5.10E-08	2.23E-07		
Arsenic	7440-38-2	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below
Nickel	7440-02-0	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below
Beryllium	7440-41-7	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below
Cadmium	7440-43-9	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below
Chromium	7440-47-3	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below
Cobalt	7440-48-4	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below
Manganese	7439-96-5	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below
Molybdenum	7439-98-7	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below
Selenium	7782-49-2	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below
Vanadium	1314-62-1	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below
Zinc	7440-66-6	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below
Barium	7440-39-3	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below
Copper	7440-50-8	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below
		Non-Metal HAPs	3.69E-04	1.62E-03			**Total Non-Metal HAPs**	3.69E-04	1.62E-03		Tot
		otal Metal HAPs	1.31E-06	5.72E-06			**Total Metal HAPs**	1.31E-06	5.72E-06		
		Total HAPs	3.70E-04	1.63E-03			**Total HAPs**	3.70E-04	1.63E-03		

AgroFarma Twin Falls - Chobani Faci
IRHs (NG)
Annual Operation 8,760

Toxic Air Pollutants Non-metals [2]	CAS No.	Reznor VR-2---60 Receiveing Bay IRH 6 Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 7 Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 8 Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL
Pentane	109-66-0	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below	1.96E-04	5.10E-04	2.23E-03	1.18E+02	Below
Benzene	71-43-2	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below	1.96E-04	4.12E-07	1.80E-06	8.00E-04	Below
3-Methylchloranthrene	56-49-5	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below	1.96E-04	3.53E-10	1.55E-09	2.50E-06	Below
Benzo(a)pyrene*	50-32-8	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below	1.96E-04	2.35E-10	1.03E-09	2.00E-06	Below
Formaldehyde	50-00-0	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below	1.96E-04	1.47E-05	6.44E-05	5.10E-04	Below
POM (7-PAH)[3]		1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below	1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below	1.96E-04	2.47E-09	1.08E-08	2.00E-06	Below
Hexane	110-54-3	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below	1.96E-04	3.53E-04	1.55E-03	1.20E+01	Below
Naphthalene	91-20-3	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below	1.96E-04	1.20E-07	5.26E-07	9.10E-05	Below
Toluene	108-88-3	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below	1.96E-04	6.66E-07	2.92E-06	2.50E+01	Below
2-Methylnapthalene	97-57-6	1.96E-04	4.70E-09	2.06E-08			1.96E-04	4.70E-09	2.06E-08			1.96E-04	4.70E-09	2.06E-08		
7, 12 - Dimethylbenz(a)anthracene		1.96E-04	3.14E-09	1.38E-08			1.96E-04	3.14E-09	1.38E-08			1.96E-04	3.14E-09	1.38E-08		
Acenaphthene	83-32-9	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Acenaphyhylene	203-96-8	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Anthracene	120-12-7	1.96E-04	4.70E-10	2.06E-09			1.96E-04	4.70E-10	2.06E-09			1.96E-04	4.70E-10	2.06E-09		
Dichlorobenzene	25321-22-6	1.96E-04	2.35E-07	1.03E-06			1.96E-04	2.35E-07	1.03E-06			1.96E-04	2.35E-07	1.03E-06		
Flouranthene	206-44-0	1.96E-04	5.88E-10	2.58E-09			1.96E-04	5.88E-10	2.58E-09			1.96E-04	5.88E-10	2.58E-09		
Fluorene	86-73-7	1.96E-04	5.49E-10	2.40E-09			1.96E-04	5.49E-10	2.40E-09			1.96E-04	5.49E-10	2.40E-09		
Phenanthrene	85-01-8	1.96E-04	3.33E-09	1.46E-08			1.96E-04	3.33E-09	1.46E-08			1.96E-04	3.33E-09	1.46E-08		
Benzo(a)anthracene*	56-55-3	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Benzo(b)fluoranthene*	205-82-3	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Benzo(g,h,i)perylene	191-24-2	1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09		
Benzo(k)fluoranthene*	205-82-3	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Chrysene*	218-01-9	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		
Dibenzo(a,h)anthracene*	53-70-3	1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09			1.96E-04	2.35E-10	1.03E-09		
Indeno(1,2,3-cd)pyrene*	193-39-5	1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09			1.96E-04	3.53E-10	1.55E-09		

Toxic Air Pollutants Metals [4]	CAS Number	Reznor VR-2---60 Receiveing Bay IRH 6 Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 7 Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Reznor VR-2---60 Receiveing Bay IRH 8 Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL
Mercury	7439-97-6	1.96E-04	5.10E-08	2.23E-07			1.96E-04	5.10E-08	2.23E-07			1.96E-04	5.10E-08	2.23E-07		
Arsenic	7440-38-2	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below	1.96E-04	3.92E-08	1.72E-07	1.50E-06	Below
Nickel	7440-02-0	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below	1.96E-04	4.12E-07	1.80E-06	2.75E-05	Below
Beryllium	7440-41-7	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below	1.96E-04	2.35E-09	1.03E-08	2.80E-05	Below
Cadmium	7440-43-9	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below	1.96E-04	2.16E-07	9.46E-07	3.70E-06	Below
Chromium	7440-47-3	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below	1.96E-04	2.74E-07	1.20E-06	3.30E-02	Below
Cobalt	7440-48-4	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below	1.96E-04	1.65E-08	7.23E-08	3.30E-03	Below
Manganese	7439-96-5	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below	1.96E-04	7.45E-08	3.26E-07	6.70E-02	Below
Molybdenum	7439-98-7	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below	1.96E-04	2.16E-07	9.46E-07	3.33E-01	Below
Selenium	7782-49-2	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below	1.96E-04	4.70E-09	2.06E-08	1.30E-02	Below
Vanadium	1314-62-1	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below	1.96E-04	4.51E-07	1.98E-06	3.00E-03	Below
Zinc	7440-66-6	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below	1.96E-04	5.68E-06	2.49E-05	3.33E-01	Below
Barium	7440-39-3	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below	1.96E-04	8.62E-07	3.78E-06	3.30E-02	Below
Copper	7440-50-8	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below	1.96E-04	1.67E-07	7.31E-07	1.30E-02	Below
		al Non-Metal HAPs	3.69E-04	1.62E-03			Total Non-Metal HAPs	3.69E-04	1.62E-03			Total Non-Metal HAPs	3.69E-04	1.62E-03		
		Total Metal HAPs	1.31E-06	5.72E-06			Total Metal HAPs	1.31E-06	5.72E-06			Total Metal HAPs	1.31E-06	5.72E-06		
		Total HAPs	3.70E-04	1.63E-03			Total HAPs	3.70E-04	1.63E-03			Total HAPs	3.70E-04	1.63E-03		

AgroFarma Twin Falls - Chobani Faciltiy Emission Estimate
IRHs (NG)
Annual Operation 8,760 hours/year

				Reznor VR-2---60 Receiveing Bay IRH 1			Reznor VR-2---60 Receiveing Bay IRH 2			Reznor VR-2---60 Receiveing Bay IRH 3			Reznor VR-2---60 Receiveing Bay IRH 4			Reznor VR-2---60 Receiveing Bay IRH 5		
Green House Gases	**EF (Natural Gas) kg/MMBtu**	**HHV**	**Reference**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] metric ton/yr**
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C Equation C-1 Tier 1	196	1,716,960	93.58	196	1,716,960	93.58	196	1,716,960	93.58	196	1,716,960	93.58	196	1,716,960	93.58
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	196	1,716,960	1.77E-04	196	1,716,960	1.77E-04	196	1,716,960	1.77E-04	196	1,716,960	1.77E-04	196	1,716,960	1.77E-04
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	196	1,716,960	1.77E-03	196	1,716,960	1.77E-03	196	1,716,960	1.77E-03	196	1,716,960	1.77E-03	196	1,716,960	1.77E-03
CO2e			40 CFR 98 Part A			93.67			93.67			93.67			93.67			93.67

Notes

[5]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times$ Fuel x HHV x EF
Fuel = Volume of fuel combusted per year, (SCF/Year)
EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)
HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)
1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[6]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times$ Fuel x HHV x EF
Fuel = Volume of fuel combusted per year, (SCF/Year)
EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)
HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)
1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)
Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Faci

IRHs (NG)

Annual Operation 8,760

		Reznor VR-2---60 Receiveing Bay IRH 6			Reznor VR-2---60 Receiveing Bay IRH 7			Reznor VR-2---60 Receiveing Bay IRH 8		
Green House Gases	**EF (Natural Gas) kg/MMBtu**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**	**Input (SCF/hr)**	**Input (SCF/yr)**	**Emission Rate[5,6,7] (metric ton/yr)**
CO_2	53.02	196	1,716,960	93.58	196	1,716,960	93.58	196	1,716,960	93.58
N_2O	1.0E-04	196	1,716,960	1.77E-04	196	1,716,960	1.77E-04	196	1,716,960	1.77E-04
CH_4	1.0E-03	196	1,716,960	1.77E-03	196	1,716,960	1.77E-03	196	1,716,960	0.00
CO2e				93.67			93.67			93.63

Notes

[5]Eqn C-1: CO_2 = 1 x
Fuel = Volume of f
EF = Fuel-specific
HHV = Default higl
1 x 10^{-3} = Convers

[6]Eqn C-8: CH_4 or N_2
Fuel = Volume of f
EF = Fuel-specific
HHV = Default higl
1 x 10^{-3} = Convers

[7]CO_2e = (GWP CO_2
Global Warming P
GWP CO_2 =
GWP CH_4 =
GWP N_2O =

AgroFarma Twin Falls - Chobani Faciltiy Emissions Estimate

RTUs (NG)

Annual Operation 8,760 hours/year

Emission Unit	Input (MMBTU/hr)
Main Office RTU 1 Carrier 48A5,T,030 (indirect fired)	0.525
Main Office RTU 2 Carrier 48A5,T,030 (indirect fired)	0.525
Main Office RTU 3 Carrier 48A5,T,030 (indirect fired)	0.525
Main Office RTU 4 Carrier 48A5,T,030 (indirect fired)	0.525
Main Office RTU 5 Carrier 48A5,T,030 (indirect fired)	0.525
Main Office RTU 6 Carrier 48A5,T,030 (indirect fired)	0.525
Meeting/RR/Plant Offices/Maintenance Office RTU Carrier 48A5,S,020 (indirect fired RTU)	0.350
Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired)	1.164

		Main Office RTU 1 Carrier 48A5,T,030 (indirect fired)		Main Office RTU 2 Carrier 48A5,T,030 (indirect fired)		Main Office RTU 3 Carrier 48A5,T,030 (indirect fired)		Main Office RTU 4 Carrier 48A5,T,030 (indirect fired)		Main Office RTU 5 Carrier 48A5,T,030 (indirect fired)		Main Office RTU 6 Carrier 48A5,T,030 (indirect fired)		Meeting/RR/Plant Offices/Maint Office RTU Carrier 48A5,S,020 (indirect fired)		Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired)	
Criteria Pollutant	**Emission Factor[1]** lb/10^6SCF	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)	**Emission Rate** (lb/hr)	**Emission Rate** (ton/yr)
Total Particulate Matter (PM)	7.6	3.91E-03	0.02	3.91E-03	0.02	3.91E-03	0.02	3.91E-03	0.02	3.91E-03	0.02	3.91E-03	0.02	2.61E-03	0.01	0.01	0.04
Nitrogen Oxides (NOx)	100	0.05	0.22	0.05	0.22	0.05	0.22	0.05	0.22	0.05	0.22	0.05	0.22	0.03	0.13	0.11	0.48
Sulfur Dioxide (SO_2)	0.6	3.09E-04	1.35E-03	3.09E-04	1.35E-03	3.09E-04	1.35E-03	3.09E-04	1.35E-03	3.09E-04	1.35E-03	3.09E-04	1.35E-03	2.06E-04	9.02E-04	6.85E-04	3.00E-03
Carbon Monoxide (CO)	84	0.04	0.18	0.04	0.18	0.04	0.18	0.04	0.18	0.04	0.18	0.04	0.18	0.03	0.13	0.10	0.44
VOC	5.5	2.83E-03	0.01	2.83E-03	0.01	2.83E-03	1.24E-02	2.83E-03	0.01	2.83E-03	0.01	2.83E-03	0.01	1.89E-03	8.28E-03	0.01	0.04
Lead	5.00E-04	2.57E-07	1.13E-06	2.57E-07	1.13E-06	2.57E-07	1.13E-06	2.57E-07	1.13E-06	2.57E-07	1.13E-06	2.57E-07	1.13E-06	1.72E-07	7.53E-07	5.71E-07	2.50E-06

AgroFarma Twin Falls - Chobani Faciltiy Emissions Estimate
RTUs (NG)
Annual Operation 8,760 hours/year

				Main Office RTU 1 Carrier 48A5,T,030 (indirect fired)					Main Office RTU 2 Carrier 48A5,T,030 (indirect fired)					Main Office RTU 3 Carrier 48A5,T,030 (indirect fired)				
Toxic Air Pollutants Non-metals [2]	**CAS No.**	**CAA 112(b) HAP**	**EPA AP-42 Natural Gas Emission Factor**	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**
			(lb/10^6 scf)	**10^{6}SCF/hr**	**(lb/hr)**	**(ton/year)**	**(lb/hr)**		**10^{6}SCF/hr**	**(lb/hr)**	**(ton/year)**	**(lb/hr)**		**10^{6}SCF/hr**	**(lb/hr)**	**(ton/yr)**	**(lb/hr)**	
Pentane	109-66-0	No	2.60E+00	5.15E-04	1.34E-03	5.87E-03	1.18E+02	Below	5.15E-04	1.34E-03	5.87E-03	1.18E+02	Below	5.15E-04	1.34E-03	5.87E-03	1.18E+02	Below
Benzene	71-43-2	Yes	2.10E-03	5.15E-04	1.08E-06	4.73E-06	8.00E-04	Below	5.15E-04	1.08E-06	4.73E-06	8.00E-04	Below	5.15E-04	1.08E-06	4.73E-06	8.00E-04	Below
3-Methylchloranthrene	56-49-5	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09	2.50E-06	Below	5.15E-04	9.27E-10	4.06E-09	2.50E-06	Below	5.15E-04	9.27E-10	4.06E-09	2.50E-06	Below
Benzo(a)pyrene*	50-32-8	Yes	1.20E-06	5.15E-04	6.18E-10	2.71E-09	2.00E-06	Below	5.15E-04	6.18E-10	2.71E-09	2.00E-06	Below	5.15E-04	6.18E-10	2.71E-09	2.00E-06	Below
Formaldehyde	50-00-0	Yes	7.50E-02	5.15E-04	3.86E-05	1.69E-04	5.10E-04	Below	5.15E-04	3.86E-05	1.69E-04	5.10E-04	Below	5.15E-04	3.86E-05	1.69E-04	5.10E-04	Below
POM (7-PAH)[3]		Yes		5.15E-04	6.49E-09	2.84E-08	2.00E-06	Below	5.15E-04	6.49E-09	2.84E-08	2.00E-06	Below	5.15E-04	6.49E-09	2.84E-08	2.00E-06	Below
Hexane	110-54-3	Yes	1.80E+00	5.15E-04	9.27E-04	4.06E-03	1.20E+01	Below	5.15E-04	9.27E-04	4.06E-03	1.20E+01	Below	5.15E-04	9.27E-04	4.06E-03	1.20E+01	Below
Naphthalene	91-20-3	Yes	6.10E-04	5.15E-04	3.14E-07	1.38E-06	9.10E-05	Below	5.15E-04	3.14E-07	1.38E-06	9.10E-05	Below	5.15E-04	3.14E-07	1.38E-06	9.10E-05	Below
Toluene	108-88-3	Yes	3.40E-03	5.15E-04	1.75E-06	7.67E-06	2.50E+01	Below	5.15E-04	1.75E-06	7.67E-06	2.50E+01	Below	5.15E-04	1.75E-06	7.67E-06	2.50E+01	Below
2-Methylnapthalene	97-57-6	Yes	2.40E-05	5.15E-04	1.24E-08	5.43E-08			5.15E-04	1.24E-08	5.43E-08			5.15E-04	1.24E-08	5.43E-08		
7, 12 - Dimethylbenz(a)anthracene		Yes	1.60E-05	5.15E-04	8.24E-09	3.61E-08			5.15E-04	8.24E-09	3.61E-08			5.15E-04	8.24E-09	3.61E-08		
Acenaphthene	83-32-9	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Acenaphyhylene	203-96-8	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Anthracene	120-12-7	Yes	2.40E-06	5.15E-04	1.24E-09	5.43E-09			5.15E-04	1.24E-09	5.43E-09			5.15E-04	1.24E-09	5.43E-09		
Dichlorobenzene	25321-22-6	Yes	1.20E-03	5.15E-04	6.18E-07	2.71E-06			5.15E-04	6.18E-07	2.71E-06			5.15E-04	6.18E-07	2.71E-06		
Flouranthene	206-44-0	Yes	3.00E-06	5.15E-04	1.55E-09	6.79E-09			5.15E-04	1.55E-09	6.79E-09			5.15E-04	1.55E-09	6.79E-09		
Fluorene	86-73-7	Yes	2.80E-06	5.15E-04	1.44E-09	6.31E-09			5.15E-04	1.44E-09	6.31E-09			5.15E-04	1.44E-09	6.31E-09		
Phenanthrene	85-01-8	Yes	1.70E-05	5.15E-04	8.76E-09	3.84E-08			5.15E-04	8.76E-09	3.84E-08			5.15E-04	8.76E-09	3.84E-08		
Benzo(a)anthracene*	56-55-3	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Benzo(b)fluoranthene*	205-82-3	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Benzo(g,h,i)perylene	191-24-2	Yes	1.20E-06	5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09		
Benzo(k)fluoranthene*	205-82-3	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Chrysene*	218-01-9	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Dibenzo(a,h)anthracene*	53-70-3	Yes	1.20E-06	5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09		
Indeno(1,2,3-cd)pyrene*	193-39-5	Yes	1.80E-06	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		

AgroFarma Twin Fall
RTUs (NG)
Annual Operation

	Main Office RTU 4 Carrier 48A5,T,030 (indirect fired)					Main Office RTU 5 Carrier 48A5,T,030 (indirect fired)					Main Office RTU 6 Carrier 48A5,T,030 (indirect fired)				
Toxic Air Pollutants Non-metals [2]	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**
	10^6SCF/hr	**(lb/hr)**	**(ton/year)**	**(lb/hr)**		**10^6SCF/hr**	**(lb/hr)**	**(ton/year)**	**(lb/hr)**		**10^6SCF/hr**	**(lb/hr)**	**(ton/year)**	**(lb/hr)**	
Pentane	5.15E-04	1.34E-03	5.87E-03	1.18E+02	Below	5.15E-04	1.34E-03	5.87E-03	1.18E+02	Below	5.15E-04	1.34E-03	5.87E-03	1.18E+02	Below
Benzene	5.15E-04	1.08E-06	4.73E-06	8.00E-04	Below	5.15E-04	1.08E-06	4.73E-06	8.00E-04	Below	5.15E-04	1.08E-06	4.73E-06	8.00E-04	Below
3-Methylchloranthrene	5.15E-04	9.27E-10	4.06E-09	2.50E-06	Below	5.15E-04	9.27E-10	4.06E-09	2.50E-06	Below	5.15E-04	9.27E-10	4.06E-09	2.50E-06	Below
Benzo(a)pyrene*	5.15E-04	6.18E-10	2.71E-09	2.00E-06	Below	5.15E-04	6.18E-10	2.71E-09	2.00E-06	Below	5.15E-04	6.18E-10	2.71E-09	2.00E-06	Below
Formaldehyde	5.15E-04	3.86E-05	1.69E-04	5.10E-04	Below	5.15E-04	3.86E-05	1.69E-04	5.10E-04	Below	5.15E-04	3.86E-05	1.69E-04	5.10E-04	Below
POM (7-PAH)[3]	5.15E-04	6.49E-09	2.84E-08	2.00E-06	Below	5.15E-04	6.49E-09	2.84E-08	2.00E-06	Below	5.15E-04	6.49E-09	2.84E-08	2.00E-06	Below
Hexane	5.15E-04	9.27E-04	4.06E-03	1.20E+01	Below	5.15E-04	9.27E-04	4.06E-03	1.20E+01	Below	5.15E-04	9.27E-04	4.06E-03	1.20E+01	Below
Naphthalene	5.15E-04	3.14E-07	1.38E-06	9.10E-05	Below	5.15E-04	3.14E-07	1.38E-06	9.10E-05	Below	5.15E-04	3.14E-07	1.38E-06	9.10E-05	Below
Toluene	5.15E-04	1.75E-06	7.67E-06	2.50E+01	Below	5.15E-04	1.75E-06	7.67E-06	2.50E+01	Below	5.15E-04	1.75E-06	7.67E-06	2.50E+01	Below
2-Methylnapthalene	5.15E-04	1.24E-08	5.43E-08			5.15E-04	1.24E-08	5.43E-08			5.15E-04	1.24E-08	5.43E-08		
7, 12 - Dimethylbenz(a)anthracene	5.15E-04	8.24E-09	3.61E-08			5.15E-04	8.24E-09	3.61E-08			5.15E-04	8.24E-09	3.61E-08		
Acenaphthene	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Acenaphyhylene	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Anthracene	5.15E-04	1.24E-09	5.43E-09			5.15E-04	1.24E-09	5.43E-09			5.15E-04	1.24E-09	5.43E-09		
Dichlorobenzene	5.15E-04	6.18E-07	2.71E-06			5.15E-04	6.18E-07	2.71E-06			5.15E-04	6.18E-07	2.71E-06		
Flouranthene	5.15E-04	1.55E-09	6.79E-09			5.15E-04	1.55E-09	6.79E-09			5.15E-04	1.55E-09	6.79E-09		
Fluorene	5.15E-04	1.44E-09	6.31E-09			5.15E-04	1.44E-09	6.31E-09			5.15E-04	1.44E-09	6.31E-09		
Phenanthrene	5.15E-04	8.76E-09	3.84E-08			5.15E-04	8.76E-09	3.84E-08			5.15E-04	8.76E-09	3.84E-08		
Benzo(a)anthracene*	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Benzo(b)fluoranthene*	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Benzo(g,h,i)perylene	5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09		
Benzo(k)fluoranthene*	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Chrysene*	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		
Dibenzo(a,h)anthracene*	5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09			5.15E-04	6.18E-10	2.71E-09		
Indeno(1,2,3-cd)pyrene*	5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09			5.15E-04	9.27E-10	4.06E-09		

AgroFarma Twin Fall
RTUs (NG)
Annual Operation

Toxic Air Pollutants Non-metals [2]	Meeting/RR/Plant Offices/Maint Office RTU Carrier 48A5,S,020 (indirect fired)					Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired)				
	Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL	Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL
	10^6SCF/hr	(lb/hr)	(ton/yr)	(lb/hr)		10^6SCF/hr	(lb/hr)	(ton/year)	(lb/hr)	
Pentane	3.43E-04	8.92E-04	3.91E-03	1.18E+02	Below	1.14E-03	2.96E-03	1.30E-02	1.18E+02	Below
Benzene	3.43E-04	7.20E-07	3.15E-06	8.00E-04	Below	1.14E-03	2.39E-06	1.05E-05	8.00E-04	Below
3-Methylchloranthrene	3.43E-04	6.17E-10	2.70E-09	2.50E-06	Below	1.14E-03	2.05E-09	8.98E-09	2.50E-06	Below
Benzo(a)pyrene*	3.43E-04	4.12E-10	1.80E-09	2.00E-06	Below	1.14E-03	1.37E-09	6.00E-09	2.00E-06	Below
Formaldehyde	3.43E-04	2.57E-05	1.13E-04	5.10E-04	Below	1.14E-03	8.55E-05	3.74E-04	5.10E-04	Below
POM (7-PAH)[3]	3.43E-04	4.32E-09	1.89E-08	2.00E-06	Below	1.14E-03	1.44E-08	6.29E-08	2.00E-06	Below
Hexane	3.43E-04	6.17E-04	2.70E-03	1.20E+01	Below	1.14E-03	2.05E-03	8.98E-03	1.20E+01	Below
Naphthalene	3.43E-04	2.09E-07	9.15E-07	9.10E-05	Below	1.14E-03	6.95E-07	3.04E-06	9.10E-05	Below
Toluene	3.43E-04	1.17E-06	5.12E-06	2.50E+01	Below	1.14E-03	3.88E-06	1.70E-05	2.50E+01	Below
2-Methylnapthalene	3.43E-04	8.23E-09	3.60E-08			1.14E-03	2.74E-08	1.20E-07		
7, 12 - Dimethylbenz(a)anthracene	3.43E-04	5.49E-09	2.40E-08			1.14E-03	1.82E-08	7.97E-08		
Acenaphthene	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Acenaphyhylene	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Anthracene	3.43E-04	8.23E-10	3.60E-09			1.14E-03	2.74E-09	1.20E-08		
Dichlorobenzene	3.43E-04	4.12E-07	1.80E-06			1.14E-03	1.37E-06	6.00E-06		
Flouranthene	3.43E-04	1.03E-09	4.51E-09			1.14E-03	3.42E-09	1.50E-08		
Fluorene	3.43E-04	9.60E-10	4.20E-09			1.14E-03	3.19E-09	1.40E-08		
Phenanthrene	3.43E-04	5.83E-09	2.55E-08			1.14E-03	1.94E-08	8.50E-08		
Benzo(a)anthracene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Benzo(b)fluoranthene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Benzo(g,h,i)perylene	3.43E-04	4.12E-10	1.80E-09			1.14E-03	1.37E-09	6.00E-09		
Benzo(k)fluoranthene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Chrysene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Dibenzo(a,h)anthracene*	3.43E-04	4.12E-10	1.80E-09			1.14E-03	1.37E-09	6.00E-09		
Indeno(1,2,3-cd)pyrene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		

AgroFarma Twin Falls - Chobani Faciltiy Emissions Estimate

RTUs (NG)

Annual Operation 8,760 hours/year

Toxic Air Pollutants Metals [4]	CAS Number	CAA 112(b) HAP	Emission Factor (lb/10^6 scf)	Main Office RTU 1 Carrier 48A5,T,030 (indirect fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Main Office RTU 2 Carrier 48A5,T,030 (indirect fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Main Office RTU 3 Carrier 48A5,T,030 (indirect fired) Input 10^{6}SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/yr)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL
Mercury	7439-97-6	Yes	2.60E-04	5.15E-04	1.34E-07	5.87E-07			5.15E-04	1.34E-07	5.87E-07			5.15E-04	1.34E-07	5.87E-07		
Arsenic	7440-38-2	Yes	2.00E-04	5.15E-04	1.03E-07	4.51E-07	1.50E-06	Below	5.15E-04	1.03E-07	4.51E-07	1.50E-06	Below	5.15E-04	1.03E-07	4.51E-07	1.50E-06	Below
Nickel	7440-02-0	Yes	2.10E-03	5.15E-04	1.08E-06	4.73E-06	2.75E-05	Below	5.15E-04	1.08E-06	4.73E-06	2.75E-05	Below	5.15E-04	1.08E-06	4.73E-06	2.75E-05	Below
Beryllium	7440-41-7	Yes	1.20E-05	5.15E-04	6.18E-09	2.71E-08	2.80E-05	Below	5.15E-04	6.18E-09	2.71E-08	2.80E-05	Below	5.15E-04	6.18E-09	2.71E-08	2.80E-05	Below
Cadmium	7440-43-9	Yes	1.10E-03	5.15E-04	5.67E-07	2.48E-06	3.70E-06	Below	5.15E-04	5.67E-07	2.48E-06	3.70E-06	Below	5.15E-04	5.67E-07	2.48E-06	3.70E-06	Below
Chromium	7440-47-3	Yes	1.40E-03	5.15E-04	7.21E-07	3.16E-06	3.30E-02	Below	5.15E-04	7.21E-07	3.16E-06	3.30E-02	Below	5.15E-04	7.21E-07	3.16E-06	3.30E-02	Below
Cobalt	7440-48-4	Yes	8.40E-05	5.15E-04	4.33E-08	1.90E-07	3.30E-03	Below	5.15E-04	4.33E-08	1.90E-07	3.30E-03	Below	5.15E-04	4.33E-08	1.90E-07	3.30E-03	Below
Manganese	7439-96-5	Yes	3.80E-04	5.15E-04	1.96E-07	8.58E-07	6.70E-02	Below	5.15E-04	1.96E-07	8.58E-07	6.70E-02	Below	5.15E-04	1.96E-07	8.58E-07	6.70E-02	Below
Molybdenum	7439-98-7	Yes	1.10E-03	5.15E-04	5.67E-07	2.48E-06	3.33E-01	Below	5.15E-04	5.67E-07	2.48E-06	3.33E-01	Below	5.15E-04	5.67E-07	2.48E-06	3.33E-01	Below
Selenium	7782-49-2	Yes	2.40E-05	5.15E-04	1.24E-08	5.43E-08	1.30E-02	Below	5.15E-04	1.24E-08	5.43E-08	1.30E-02	Below	5.15E-04	1.24E-08	5.43E-08	1.30E-02	Below
Vanadium	1314-62-1	No	2.30E-03	5.15E-04	1.18E-06	5.17E-06	3.00E-03	Below	5.15E-04	1.18E-06	5.17E-06	3.00E-03	Below	5.15E-04	1.18E-06	5.17E-06	3.00E-03	Below
Zinc	7440-66-6	No	2.90E-02	5.15E-04	1.49E-05	6.53E-05	3.33E-01	Below	5.15E-04	1.49E-05	6.53E-05	3.33E-01	Below	5.15E-04	1.49E-05	6.53E-05	3.33E-01	Below
Barium	7440-39-3	No	4.40E-03	5.15E-04	2.27E-06	9.94E-06	3.30E-02	Below	5.15E-04	2.27E-06	9.94E-06	3.30E-02	Below	5.15E-04	2.27E-06	9.94E-06	3.30E-02	Below
Copper	7440-50-8	No	8.50E-04	5.15E-04	4.38E-07	1.92E-06	1.30E-02	Below	5.15E-04	4.38E-07	1.92E-06	1.30E-02	Below	5.15E-04	4.38E-07	1.92E-06	1.30E-02	Below
					Total Non-Metal HAPs	9.69E-04	4.25E-03			**Total Non-Metal HAPs**	9.69E-04	4.25E-03			**Total Non-Me**	9.69E-04	4.25E-03	
					Total Metal HAPs	3.43E-06	1.50E-05			**Total Metal HAPs**	3.43E-06	1.50E-05			**Total Metal H**	3.43E-06	1.50E-05	
					Total HAPs	9.72E-04	4.27E-03			**Total HAPs**	9.72E-04	4.27E-03			**Total HAPs**	9.72E-04	4.27E-03	

Notes:

[1] Criteria Pollutant emission factors for small uncontrolled boilers as stated AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-1 and 1.4-2. PM emission factor is assumed to equal PM10.
Conversion Factor: 1020 BTU/SCF

[2] Toxic Air Pollutants emission factors from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3.

[3] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[4] Toxic Air Pollutant Metal emission factors from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4.

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Main Office RTU 1 Carrier 48A5,T,030 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] metric ton/yr	Main Office RTU 2 Carrier 48A5,T,030 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Main Office RTU 3 Carrier 48A5,T,030 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Main Office RTU 4 Carrier 48A5,T,030 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Main Office RTU 5 Carrier 48A5,T,030 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] metric ton/y
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C Equation C-1 Tier 1	515	4,511,400	245.89	515	4,511,400	245.89	515	4,511,400	245.89	515	4,511,400	245.89	515	4,511,400	245.89
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	515	4,511,400	4.64E-04	515	4,511,400	4.64E-04	515	4,511,400	4.64E-04	515	4,511,400	4.64E-04	515	4,511,400	4.64E-04
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	515	4,511,400	4.64E-03	515	4,511,400	4.64E-03	515	4,511,400	4.64E-03	515	4,511,400	4.64E-03	515	4,511,400	4.64E-03
CO2e			40 CFR 98 Part A			246.13			246.13			246.13			246.13			246.13

Notes

[5] Eqn C-1: $CO_2 = 1 \times 10^{-3} \times$ Fuel x HHV x EF
Fuel = Volume of fuel combusted per year, (SCF/Year)
EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)
HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)
1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[6] Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times$ Fuel x HHV x EF
Fuel = Volume of fuel combusted per year, (SCF/Year)
EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)
HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)
1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7] CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)
Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1
GWP CO_2 = 1.00
GWP CH_4 = 21.00

AgroFarma Twin Fall
RTUs (NG)
Annual Operation

Toxic Air Pollutants Metals [4]	Main Office RTU 4 Carrier 48A5,T,030 (indirect fired) Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Main Office RTU 5 Carrier 48A5,T,030 (indirect fired) Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL	Main Office RTU 6 Carrier 48A5,T,030 (indirect fired) Input 10^6SCF/hr	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585 or 586 EL (lb/hr)	Emission Rate vs. EL
Mercury	5.15E-04	1.34E-07	5.87E-07			5.15E-04	1.34E-07	5.87E-07			5.15E-04	1.34E-07	5.87E-07		
Arsenic	5.15E-04	1.03E-07	4.51E-07	1.50E-06	Below	5.15E-04	1.03E-07	4.51E-07	1.50E-06	Below	5.15E-04	1.03E-07	4.51E-07	1.50E-06	Below
Nickel	5.15E-04	1.08E-06	4.73E-06	2.75E-05	Below	5.15E-04	1.08E-06	4.73E-06	2.75E-05	Below	5.15E-04	1.08E-06	4.73E-06	2.75E-05	Below
Beryllium	5.15E-04	6.18E-09	2.71E-08	2.80E-05	Below	5.15E-04	6.18E-09	2.71E-08	2.80E-05	Below	5.15E-04	6.18E-09	2.71E-08	2.80E-05	Below
Cadmium	5.15E-04	5.67E-07	2.48E-06	3.70E-06	Below	5.15E-04	5.67E-07	2.48E-06	3.70E-06	**Below**	5.15E-04	5.67E-07	2.48E-06	3.70E-06	Below
Chromium	5.15E-04	7.21E-07	3.16E-06	3.30E-02	Below	5.15E-04	7.21E-07	3.16E-06	3.30E-02	Below	5.15E-04	7.21E-07	3.16E-06	3.30E-02	Below
Cobalt	5.15E-04	4.33E-08	1.90E-07	3.30E-03	Below	5.15E-04	4.33E-08	1.90E-07	3.30E-03	Below	5.15E-04	4.33E-08	1.90E-07	3.30E-03	Below
Manganese	5.15E-04	1.96E-07	8.58E-07	6.70E-02	Below	5.15E-04	1.96E-07	8.58E-07	6.70E-02	Below	5.15E-04	1.96E-07	8.58E-07	6.70E-02	Below
Molybdenum	5.15E-04	5.67E-07	2.48E-06	3.33E-01	Below	5.15E-04	5.67E-07	2.48E-06	3.33E-01	Below	5.15E-04	5.67E-07	2.48E-06	3.33E-01	Below
Selenium	5.15E-04	1.24E-08	5.43E-08	1.30E-02	Below	5.15E-04	1.24E-08	5.43E-08	1.30E-02	Below	5.15E-04	1.24E-08	5.43E-08	1.30E-02	Below
Vanadium	5.15E-04	1.18E-06	5.17E-06	3.00E-03	Below	5.15E-04	1.18E-06	5.17E-06	3.00E-03	Below	5.15E-04	1.18E-06	5.17E-06	3.00E-03	Below
Zinc	5.15E-04	1.49E-05	6.53E-05	3.33E-01	Below	5.15E-04	1.49E-05	6.53E-05	3.33E-01	Below	5.15E-04	1.49E-05	6.53E-05	3.33E-01	Below
Barium	5.15E-04	2.27E-06	9.94E-06	3.30E-02	Below	5.15E-04	2.27E-06	9.94E-06	3.30E-02	Below	5.15E-04	2.27E-06	9.94E-06	3.30E-02	Below
Copper	5.15E-04	4.38E-07	1.92E-06	1.30E-02	Below	5.15E-04	4.38E-07	1.92E-06	1.30E-02	Below	5.15E-04	4.38E-07	1.92E-06	1.30E-02	Below
	Metal HAPs	9.69E-04	4.25E-03			**Total Non-Metal HAPs**	9.69E-04	4.25E-03			**Total Non-Metal HAPs**	9.69E-04	4.25E-03		
	Metal HAPs	3.43E-06	1.50E-05			**Total Metal HAPs**	3.43E-06	1.50E-05			**Total Metal HAPs**	3.43E-06	1.50E-05		
	Total HAPs	9.72E-04	4.27E-03			**Total HAPs**	9.72E-04	4.27E-03			**Total HAPs**	9.72E-04	4.27E-03		

Green House Gases	Main Office RTU 6 Carrier 48A5,T,030 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Meeting/RR/Plant Offices/Maint Office RTU Carrier 48A5,S,020 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)	Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired) Input (SCF/hr)	Input (SCF/yr)	Emission Rate[5,6,7] (metric ton/yr)
CO_2	515	4,511,400	245.89	343	3,004,680	163.77	1,141	9,995,160	544.78
N_2O	515	4,511,400	4.64E-04	343	3,004,680	3.09E-04	1,141	9,995,160	1.03E-03
CH_4	515	4,511,400	4.64E-03	343	3,004,680	3.09E-03	1,141	9,995,160	0.01
CO2e			246.13			163.93			545.31

AgroFarma Twin Fall
RTUs (NG)
Annual Operation

	Meeting/RR/Plant Offices/Maint Office RTU Carrier 48A5,S,020 (indirect fired)					Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired)				
Toxic Air Pollutants Non-metals [2]	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**	**Input**	**Emission Rate**	**Emission Rate**	**IDAPA 58.01.01.585 or 586 EL**	**Emission Rate vs. EL**
	10^6SCF/hr	**(lb/hr)**	**(ton/yr)**	**(lb/hr)**		**10^6SCF/hr**	**(lb/hr)**	**(ton/year)**	**(lb/hr)**	
Pentane	3.43E-04	8.92E-04	3.91E-03	1.18E+02	Below	1.14E-03	2.96E-03	1.30E-02	1.18E+02	Below
Benzene	3.43E-04	7.20E-07	3.15E-06	8.00E-04	Below	1.14E-03	2.39E-06	1.05E-05	8.00E-04	Below
3-Methylchloranthrene	3.43E-04	6.17E-10	2.70E-09	2.50E-06	Below	1.14E-03	2.05E-09	8.98E-09	2.50E-06	Below
Benzo(a)pyrene*	3.43E-04	4.12E-10	1.80E-09	2.00E-06	Below	1.14E-03	1.37E-09	6.00E-09	2.00E-06	Below
Formaldehyde	3.43E-04	2.57E-05	1.13E-04	5.10E-04	Below	1.14E-03	8.55E-05	3.74E-04	5.10E-04	Below
POM (7-PAH)[3]	3.43E-04	4.32E-09	1.89E-08	2.00E-06	Below	1.14E-03	1.44E-08	6.29E-08	2.00E-06	Below
Hexane	3.43E-04	6.17E-04	2.70E-03	1.20E+01	Below	1.14E-03	2.05E-03	8.98E-03	1.20E+01	Below
Naphthalene	3.43E-04	2.09E-07	9.15E-07	9.10E-05	Below	1.14E-03	6.95E-07	3.04E-06	9.10E-05	Below
Toluene	3.43E-04	1.17E-06	5.12E-06	2.50E+01	Below	1.14E-03	3.88E-06	1.70E-05	2.50E+01	Below
2-Methylnapthalene	3.43E-04	8.23E-09	3.60E-08			1.14E-03	2.74E-08	1.20E-07		
7, 12 - Dimethylbenz(a)anthracene	3.43E-04	5.49E-09	2.40E-08			1.14E-03	1.82E-08	7.97E-08		
Acenaphthene	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Acenaphyhylene	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Anthracene	3.43E-04	8.23E-10	3.60E-09			1.14E-03	2.74E-09	1.20E-08		
Dichlorobenzene	3.43E-04	4.12E-07	1.80E-06			1.14E-03	1.37E-06	6.00E-06		
Flouranthene	3.43E-04	1.03E-09	4.51E-09			1.14E-03	3.42E-09	1.50E-08		
Fluorene	3.43E-04	9.60E-10	4.20E-09			1.14E-03	3.19E-09	1.40E-08		
Phenanthrene	3.43E-04	5.83E-09	2.55E-08			1.14E-03	1.94E-08	8.50E-08		
Benzo(a)anthracene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Benzo(b)fluoranthene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Benzo(g,h,i)perylene	3.43E-04	4.12E-10	1.80E-09			1.14E-03	1.37E-09	6.00E-09		
Benzo(k)fluoranthene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Chrysene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		
Dibenzo(a,h)anthracene*	3.43E-04	4.12E-10	1.80E-09			1.14E-03	1.37E-09	6.00E-09		
Indeno(1,2,3-cd)pyrene*	3.43E-04	6.17E-10	2.70E-09			1.14E-03	2.05E-09	8.98E-09		

AgroFarma Twin Fall
RTUs (NG)
Annual Operation

Toxic Air Pollutants Metals [4]	Meeting/RR/Plant Offices/Maint Office RTU Carrier 48A5,S,020 (indirect fired)					Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired)				
	Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL	Input	Emission Rate	Emission Rate	IDAPA 58.01.01.585 or 586 EL	Emission Rate vs. EL
	10^6SCF/hr	(lb/hr)	(ton/yr)	(lb/hr)		10^6SCF/hr	(lb/hr)	(ton/year)	(lb/hr)	
Mercury	3.43E-04	8.92E-08	3.91E-07			1.14E-03	2.96E-07	1.30E-06		
Arsenic	3.43E-04	6.86E-08	3.00E-07	1.50E-06	Below	1.14E-03	2.28E-07	9.99E-07	1.50E-06	Below
Nickel	3.43E-04	7.20E-07	3.15E-06	2.75E-05	Below	1.14E-03	2.39E-06	1.05E-05	2.75E-05	Below
Beryllium	3.43E-04	4.12E-09	1.80E-08	2.80E-05	Below	1.14E-03	1.37E-08	6.00E-08	2.80E-05	Below
Cadmium	3.43E-04	3.77E-07	1.65E-06	3.70E-06	Below	1.14E-03	1.25E-06	5.48E-06	3.70E-06	Below
Chromium	3.43E-04	4.80E-07	2.10E-06	3.30E-02	Below	1.14E-03	1.60E-06	7.01E-06	3.30E-02	Below
Cobalt	3.43E-04	2.88E-08	1.26E-07	3.30E-03	Below	1.14E-03	9.58E-08	4.20E-07	3.30E-03	Below
Manganese	3.43E-04	1.30E-07	5.69E-07	6.70E-02	Below	1.14E-03	4.33E-07	1.90E-06	6.70E-02	Below
Molybdenum	3.43E-04	3.77E-07	1.65E-06	3.33E-01	Below	1.14E-03	1.25E-06	5.48E-06	3.33E-01	Below
Selenium	3.43E-04	8.23E-09	3.60E-08	1.30E-02	Below	1.14E-03	2.74E-08	1.20E-07	1.30E-02	Below
Vanadium	3.43E-04	7.89E-07	3.46E-06	3.00E-03	Below	1.14E-03	2.62E-06	1.15E-05	3.00E-03	Below
Zinc	3.43E-04	9.95E-06	4.36E-05	3.33E-01	Below	1.14E-03	3.31E-05	1.45E-04	3.33E-01	Below
Barium	3.43E-04	1.51E-06	6.61E-06	3.30E-02	Below	1.14E-03	5.02E-06	2.20E-05	3.30E-02	Below
Copper	3.43E-04	2.92E-07	1.28E-06	1.30E-02	Below	1.14E-03	9.69E-07	4.24E-06	1.30E-02	Below
Total Non-Metal HAPs		6.45E-04	2.82E-03			Total Non-Metal HAPs	2.14E-03	9.39E-03		
Total Metal HAPs		2.28E-06	9.99E-06			Total Metal HAPs	7.58E-06	3.33E-05		
Total HAPs		6.47E-04	2.83E-03			Total HAPs	2.15E-03	0.01		

AgroFarma Twin Falls - Chobani Facility Baseline Emission Estimate Summary
Hazardous Air Pollutant Emissions Inventory

HAP Pollutants	CAS No.	PTE (tons/year)
Benzene	71-43-2	3.65E-04
3-Methylchloranthrene	56-49-5	3.13E-07
Benzo(a)pyrene*	50-32-8	2.09E-07
Formaldehyde	50-00-0	1.30E-02
POM (7-PAH)[4]		2.00E-06
Hexane	110-54-3	3.13E-01
Naphthalene	91-20-3	1.06E-04
Toluene	108-88-3	5.93E-04
2-Methylnapthalene	97-57-6	4.18E-06
7, 12 - Dimethylbenz(a)anthracene		2.78E-06
Acenaphthene	83-32-9	3.13E-07
Acenaphyhylene	203-96-8	3.13E-07
Anthracene	120-12-7	4.18E-07
Dichlorobenzene	25321-22-6	2.09E-04
Flouranthene	206-44-0	5.22E-07
Fluorene	86-73-7	4.87E-07
Phenanthrene	85-01-8	2.96E-06
Benzo(a)anthracene*	56-55-3	3.13E-07
Benzo(b)fluoranthene*	205-82-3	3.13E-07
Benzo(g,h,i)perylene	191-24-2	2.09E-07
Benzo(k)fluoranthene*	205-82-3	3.13E-07
Chrysene*	218-01-9	3.13E-07
Dibenzo(a,h)anthracene*	53-70-3	2.09E-07
Indeno(1,2,3-cd)pyrene*	193-39-5	3.13E-07
Metals		
Mercury	7439-97-6	4.59E-05
Arsenic	7440-38-2	3.53E-05
Nickel	7440-02-0	3.71E-04
Beryllium	7440-41-7	2.12E-06
Cadmium	7440-43-9	1.94E-04
Chromium	7440-47-3	2.47E-04
Cobalt	7440-48-4	1.49E-05
Manganese	7439-96-5	6.74E-05
Molybdenum	7439-98-7	1.94E-04
Selenium	7782-49-2	4.24E-06
Total		**0.33**

AgroFarma Twin Falls - Chobani Facility Baseline Emission Estimate Summary
GHGs Pollutants

Criteria Pollutants Emissions Unit Name	Stack ID	CO_2 Metric Tons/Yr	CO_3 Short Tons/Yr	N_2O Metric Tons/Yr	N_2O Short Tons/Yr	CH_4 Metric Tons/Yr	CH_5 Short Tons/Yr	CO2e Metric Tons/Yr	CO2e Short Tons/Yr
Cleaver Brooks CBLE-700-800 NG Boiler 1	BOILER1	15287.79	15639.41	0.02883	0.02949	0.28830	0.29493	15,302.78	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 2	BOILER2	15287.79	15639.41	0.02883	0.02949	0.28830	0.29493	15,302.78	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 3	BOILER3	15287.79	15639.41	0.02883	0.02949	0.28830	0.29493	15,302.78	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 4	BOILER4	15287.79	15639.41	0.02883	0.02949	0.28830	0.29493	15,302.78	16,868.25
Cleaver Brooks CBLE-700-800 NG Boiler 5	BOILER5	15287.79	15639.41	0.02883	0.02949	0.28830	0.29493	15,302.78	16,868.25
Boiler Room MAU 1 - Rupp Air RAM 225 (50,000 cfm, direct fired)	BRMAU1	1679.23	1717.85	0.00317	0.00324	0.03000	0.03069	1,680.84	1,852.79
Lab MAU - Aaon RN-050 (6,000 cfm, indirect fired RTU)	LABMAU	379.10	387.82	0.00072	0.00074	0.01000	0.01023	379.53	418.36
Battery MAU - Rupp Air RAM 222 (42,000 cfm, direct fired)	BATTMAU	1679.23	1717.85	0.00317	0.00324	0.03000	0.03069	1,680.84	1,852.79
Main Office RTU 1 - Carrier 48A5,T,030 (indirect fired)	RTU1	245.89	251.55	0.00046	0.00047	0.00464	0.00475	246.13	271.31
Main Office RTU 2 - Carrier 48A5,T,030 (indirect fired)	RTU2	245.89	251.55	0.00046	0.00047	0.00464	0.00475	246.13	271.31
Main Office RTU 3 - Carrier 48A5,T,030 (indirect fired)	RTU3	245.89	251.55	0.00046	0.00047	0.00464	0.00475	246.13	271.31
Main Office RTU 4 - Carrier 48A5,T,030 (indirect fired)	RTU4	245.89	251.55	0.00046	0.00047	0.00464	0.00475	246.13	271.31
Main Office RTU 5 - Carrier 48A5,T,030 (indirect fired)	RTU5	245.89	251.55	0.00046	0.00047	0.00464	0.00475	246.13	271.31
Main Office RTU 6 - Carrier 48A5,T,030 (indirect fired)	RTU6	245.89	251.55	0.00046	0.00047	0.00464	0.00475	246.13	271.31
Meeting/RR/Plant Offices/Maintenance Office RTU Carrier 48A5,S,020 (indirect fired RTU)	PLANT	163.77	167.54	0.00031	0.00032	0.00309	0.00316	163.93	180.70
Mantenance/Parts/Fab RTU Carrier 48A5,S,060 (indirect fired RTU)	MAINT	544.78	557.31	0.00103	0.00105	0.01000	0.01023	545.31	601.10
Reznor VR-2---60 Receiveing Bay IRH 1	IRH1	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 2	IRH2	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 3	IRH3	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 4	IRH4	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 5	IRH5	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 6	IRH6	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 7	IRH7	93.58	95.73	0.00018	0.00018	0.00177	0.00181	93.67	103.25
Reznor VR-2---60 Receiveing Bay IRH 8	IRH8	93.58	95.73	0.00018	0.00018	0.00000	0.00000	93.63	103.21
	Total	83,109.04	85,020.56	0.16	0.16	1.56	1.60	83,190.45	91,700.81

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 1

Boiler Heat Input (MMBTU/hr)	32.659
Manufacturer	Cleaver Brooks
Model No.	CBLE-700-800
Fuel Type	Natural Gas
Natural Gas Fuel Heat Value (BTU/SCF)	1,020
Natural Gas Use (10^6 scf/hr)	0.0320
Annual Operation (hrs/yr)	8,760

Cleaver Brooks Boiler Expected Emission Data for Model CB(LE)

Criteria Pollutant	Emission Factor[1] (lb/MM Btu)	Emission Rate (lb/hr)	Emission Rate (ton/year)
Total Particulate Matter (PM)	0.010	0.33	1.45
Nitrogen Oxides (NOx)	0.071	2.32	10.16
Sulfur Dioxide (SO_2)	0.0006	0.02	0.09
Carbon Monoxide (CO)	0.036	1.18	5.17
VOC	0.004	0.13	0.57
Lead[2]	5.00E-04	1.60E-05	7.01E-05

PM gr/scf at 3% O2 = PM lb/MMBTU x (20.9-3)/20.9 x 7000 gr/1 lb x 1/f Factor for NG dscf/MMBTU

PM gr/scf at 3% O2 **0.007 gr/dscf**

where:

f factor for NG = 8710 dscf/MMBTU 40 CFR Part 75 specifies a Fd value of 8,710 dscf/mmBtu

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 1

Toxic Air Pollutants Non-metals [3]	CAS No.	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	CAA 112(b) HAP?
Pentane	109-66-0	2.60E+00	8.32E-02	3.64E-01	1.18E+02	Below	No
Benzene	71-43-2	2.10E-03	6.72E-05	2.94E-04	8.00E-04	Below	Yes
3-Methylchloranthrene	56-49-5	1.80E-06	5.76E-08	2.52E-07	2.50E-06	Below	Yes
Benzo(a)pyrene*	50-32-8	1.20E-06	3.84E-08	1.68E-07	2.00E-06	Below	Yes
Formaldehyde	50-00-0	7.50E-02	2.40E-03	1.05E-02	5.10E-04	**Exceeds**	Yes
POM (7-PAH)[4]			3.65E-07	1.60E-06	2.00E-06	Below	Yes
Hexane	110-54-3	1.80E+00	5.76E-02	2.52E-01	1.20E+01	Below	Yes
Naphthalene	91-20-3	6.10E-04	1.95E-05	8.54E-05	9.10E-05	Below	Yes
Toluene	108-88-3	3.40E-03	1.09E-04	4.77E-04	2.50E+01	Below	Yes
2-Methylnapthalene	97-57-6	2.40E-05	7.68E-07	3.36E-06			Yes
7, 12 - Dimethylbenz(a)anthracene		1.60E-05	5.12E-07	2.24E-06			Yes
Acenaphthene	83-32-9	1.80E-06	5.76E-08	2.52E-07			Yes
Acenaphyhylene	203-96-8	1.80E-06	5.76E-08	2.52E-07			Yes
Anthracene	120-12-7	2.40E-06	7.68E-08	3.36E-07			Yes
Dichlorobenzene	25321-22-6	1.20E-03	3.84E-05	1.68E-04			Yes
Flouranthene	206-44-0	3.00E-06	9.60E-08	4.20E-07			Yes
Fluorene	86-73-7	2.80E-06	8.96E-08	3.92E-07			Yes
Phenanthrene	85-01-8	1.70E-05	5.44E-07	2.38E-06			Yes
Benzo(a)anthracene*	56-55-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(b)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(g,h,i)perylene	191-24-2	1.20E-06	3.84E-08	1.68E-07			Yes
Benzo(k)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Chrysene*	218-01-9	1.80E-06	5.76E-08	2.52E-07			Yes
Dibenzo(a,h)anthracene*	53-70-3	1.20E-06	3.84E-08	1.68E-07			Yes
Indeno(1,2,3-cd)pyrene*	193-39-5	1.80E-06	5.76E-08	2.52E-07			Yes

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 1

Toxic Air Pollutants Metals [5]	CAS Number	Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	PTE Emission Rate vs. EL	CAA 112(b) HAP?
Mercury	7439-97-6	2.60E-04	8.32E-06	3.64E-05			Yes
Arsenic	7440-38-2	2.00E-04	6.40E-06	2.80E-05	1.50E-06	**Exceeds**	Yes
Nickel	7440-02-0	2.10E-03	6.72E-05	2.94E-04	2.75E-05	**Exceeds**	Yes
Beryllium	7440-41-7	1.20E-05	3.84E-07	1.68E-06	2.80E-05	Below	Yes
Cadmium	7440-43-9	1.10E-03	3.52E-05	1.54E-04	3.70E-06	**Exceeds**	Yes
Chromium	7440-47-3	1.40E-03	4.48E-05	1.96E-04	3.30E-02	Below	Yes
Cobalt	7440-48-4	8.40E-05	2.69E-06	1.18E-05	3.30E-03	Below	Yes
Manganese	7439-96-5	3.80E-04	1.22E-05	5.34E-05	6.70E-02	Below	Yes
Molybdenum	7439-98-7	1.10E-03	3.52E-05	1.54E-04	3.33E-01	Below	Yes
Selenium	7782-49-2	2.40E-05	7.68E-07	3.36E-06	1.30E-02	Below	Yes
Vanadium	1314-62-1	2.30E-03	7.36E-05	3.22E-04	3.00E-03	Below	No
Zinc	7440-66-6	2.90E-02	9.28E-04	4.06E-03	3.33E-01	Below	No
Barium	7440-39-3	4.40E-03	1.41E-04	6.18E-04	3.30E-02	Below	No
Copper	7440-50-8	8.50E-04	2.72E-05	1.19E-04	1.30E-02	Below	No
		Total Non-Metal HAPs	6.02E-02	2.64E-01			
		Total Metal HAPs	2.13E-04	9.33E-04			
		Total HAPs	0.06	0.26			

Notes:

[1] Criteria Pollutants as stated in Cleaver Brooks Boiler Expected Emission Data for Model CB(LE). PM emission factor is assumed to equal PM10.

[2] Lead Emission factor from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-2. Emission factor units is lb/10^6 SCF.

[3] Toxic Air Pollutants (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3).

[4] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[5] Metals from Natural Gas Combustion (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4).

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 1

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Boiler 1 Input (SCF/hr)	Boiler 1 Input (SCF/yr)	Boiler 1 Emission Rate[6,7,8] (metric ton/yr)
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C	32,019	280,486,440	15287.79
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-02
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-01
CO2e			40 CFR 98 Part A			15,302.78

Notes

[6]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[8]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)

Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 2

Boiler Heat Input (MMBTU/hr)	32.659
Manufacturer	Cleaver Brooks
Model No.	CBLE-700-800
Fuel Type	Natural Gas
Natural Gas Fuel Heat Value (BTU/SCF)	1,020
Natural Gas Use (10^6 scf/hr)	0.0320
Annual Operation (hrs/yr)	8,760

Cleaver Brooks Boiler Expected Emission Data for Model CB(LE)

Criteria Pollutant	Emission Factor[1] (lb/MM Btu)	Emission Rate (lb/hr)	Emission Rate (ton/year)
Total Particulate Matter (PM)	0.010	0.33	1.45
Nitrogen Oxides (NOx)	0.071	2.32	10.16
Sulfur Dioxide (SO_2)	0.0006	0.02	0.09
Carbon Monoxide (CO)	0.036	1.18	5.17
VOC	0.004	0.13	0.57
Lead[2]	5.00E-04	1.60E-05	7.01E-05

PM gr/scf at 3% O2 = PM lb/MMBTU x (20.9-3)/20.9 x 7000 gr/1 lb x 1/f Factor for NG dscf/MMBTU

PM gr/scf at 3% O2 **0.007 gr/dscf**

where:

f factor for NG = 8710 dscf/MMBTU 40 CFR Part 75 specifies a Fd value of 8,710 dscf/mmBtu

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 2

Toxic Air Pollutants Non-metals [3]	CAS No.	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	CAA 112(b) HAP?
Pentane	109-66-0	2.60E+00	8.32E-02	3.64E-01	1.18E+02	Below	No
Benzene	71-43-2	2.10E-03	6.72E-05	2.94E-04	8.00E-04	Below	Yes
3-Methylchloranthrene	56-49-5	1.80E-06	5.76E-08	2.52E-07	2.50E-06	Below	Yes
Benzo(a)pyrene*	50-32-8	1.20E-06	3.84E-08	1.68E-07	2.00E-06	Below	Yes
Formaldehyde	50-00-0	7.50E-02	2.40E-03	1.05E-02	5.10E-04	**Exceeds**	Yes
POM (7-PAH)[4]			3.65E-07	1.60E-06	2.00E-06	Below	Yes
Hexane	110-54-3	1.80E+00	5.76E-02	2.52E-01	1.20E+01	Below	Yes
Naphthalene	91-20-3	6.10E-04	1.95E-05	8.54E-05	9.10E-05	Below	Yes
Toluene	108-88-3	3.40E-03	1.09E-04	4.77E-04	2.50E+01	Below	Yes
2-Methylnapthalene	97-57-6	2.40E-05	7.68E-07	3.36E-06			Yes
7, 12 - Dimethylbenz(a)anthracene		1.60E-05	5.12E-07	2.24E-06			Yes
Acenaphthene	83-32-9	1.80E-06	5.76E-08	2.52E-07			Yes
Acenaphyhylene	203-96-8	1.80E-06	5.76E-08	2.52E-07			Yes
Anthracene	120-12-7	2.40E-06	7.68E-08	3.36E-07			Yes
Dichlorobenzene	25321-22-6	1.20E-03	3.84E-05	1.68E-04			Yes
Flouranthene	206-44-0	3.00E-06	9.60E-08	4.20E-07			Yes
Fluorene	86-73-7	2.80E-06	8.96E-08	3.92E-07			Yes
Phenanthrene	85-01-8	1.70E-05	5.44E-07	2.38E-06			Yes
Benzo(a)anthracene*	56-55-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(b)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(g,h,i)perylene	191-24-2	1.20E-06	3.84E-08	1.68E-07			Yes
Benzo(k)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Chrysene*	218-01-9	1.80E-06	5.76E-08	2.52E-07			Yes
Dibenzo(a,h)anthracene*	53-70-3	1.20E-06	3.84E-08	1.68E-07			Yes
Indeno(1,2,3-cd)pyrene*	193-39-5	1.80E-06	5.76E-08	2.52E-07			Yes

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 2

Toxic Air Pollutants Metals [5]	CAS Number	Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	PTE Emission Rate vs. EL	CAA 112(b) HAP?
Mercury	7439-97-6	2.60E-04	8.32E-06	3.64E-05			Yes
Arsenic	7440-38-2	2.00E-04	6.40E-06	2.80E-05	1.50E-06	**Exceeds**	Yes
Nickel	7440-02-0	2.10E-03	6.72E-05	2.94E-04	2.75E-05	**Exceeds**	Yes
Beryllium	7440-41-7	1.20E-05	3.84E-07	1.68E-06	2.80E-05	Below	Yes
Cadmium	7440-43-9	1.10E-03	3.52E-05	1.54E-04	3.70E-06	**Exceeds**	Yes
Chromium	7440-47-3	1.40E-03	4.48E-05	1.96E-04	3.30E-02	Below	Yes
Cobalt	7440-48-4	8.40E-05	2.69E-06	1.18E-05	3.30E-03	Below	Yes
Manganese	7439-96-5	3.80E-04	1.22E-05	5.34E-05	6.70E-02	Below	Yes
Molybdenum	7439-98-7	1.10E-03	3.52E-05	1.54E-04	3.33E-01	Below	Yes
Selenium	7782-49-2	2.40E-05	7.68E-07	3.36E-06	1.30E-02	Below	Yes
Vanadium	1314-62-1	2.30E-03	7.36E-05	3.22E-04	3.00E-03	Below	No
Zinc	7440-66-6	2.90E-02	9.28E-04	4.06E-03	3.33E-01	Below	No
Barium	7440-39-3	4.40E-03	1.41E-04	6.18E-04	3.30E-02	Below	No
Copper	7440-50-8	8.50E-04	2.72E-05	1.19E-04	1.30E-02	Below	No
		Total Non-Metal HAPs	6.02E-02	2.64E-01			
		Total Metal HAPs	2.13E-04	9.33E-04			
		Total HAPs	0.06	0.26			

Notes:

[1] Criteria Pollutants as stated in Cleaver Brooks Boiler Expected Emission Data for Model CB(LE). PM emission factor is assumed to equal PM10.

[2] Lead Emission factor from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-2. Emission factor units is lb/10^6 SCF.

[3] Toxic Air Pollutants (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3).

[4] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[5] Metals from Natural Gas Combustion (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4).

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 2

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Boiler 2 Input (SCF/hr)	Boiler 2 Input (SCF/yr)	Boiler 2 Emission Rate[6,7,8] (metric ton/yr)
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C	32,019	280,486,440	15287.79
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-02
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-01
CO2e			40 CFR 98 Part A			15,302.78

Notes

[6]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[8]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)

Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 3

Boiler Heat Input (MMBTU/hr)	32.659
Manufacturer	Cleaver Brooks
Model No.	CBLE-700-800
Fuel Type	Natural Gas
Natural Gas Fuel Heat Value (BTU/SCF)	1,020
Natural Gas Use (10^6 scf/hr)	0.0320
Annual Operation (hrs/yr)	8,760

Cleaver Brooks Boiler Expected Emission Data for Model CB(LE)

Criteria Pollutant	Emission Factor[1] (lb/MM Btu)	Emission Rate (lb/hr)	Emission Rate (ton/year)
Total Particulate Matter (PM)	0.010	0.33	1.45
Nitrogen Oxides (NOx)	0.071	2.32	10.16
Sulfur Dioxide (SO_2)	0.0006	0.02	0.09
Carbon Monoxide (CO)	0.036	1.18	5.17
VOC	0.004	0.13	0.57
Lead[2]	5.00E-04	1.60E-05	7.01E-05

PM gr/scf at 3% O2 = PM lb/MMBTU x (20.9-3)/20.9 x 7000 gr/1 lb x 1/f Factor for NG dscf/MMBTU

PM gr/scf at 3% O2 **0.007 gr/dscf**

where:

f factor for NG = 8710 dscf/MMBTU 40 CFR Part 75 specifies a Fd value of 8,710 dscf/mmBtu

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 3

Toxic Air Pollutants Non-metals [3]	CAS No.	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	CAA 112(b) HAP?
Pentane	109-66-0	2.60E+00	8.32E-02	3.64E-01	1.18E+02	Below	No
Benzene	71-43-2	2.10E-03	6.72E-05	2.94E-04	8.00E-04	Below	Yes
3-Methylchloranthrene	56-49-5	1.80E-06	5.76E-08	2.52E-07	2.50E-06	Below	Yes
Benzo(a)pyrene*	50-32-8	1.20E-06	3.84E-08	1.68E-07	2.00E-06	Below	Yes
Formaldehyde	50-00-0	7.50E-02	2.40E-03	1.05E-02	5.10E-04	**Exceeds**	Yes
POM (7-PAH)[4]			3.65E-07	1.60E-06	2.00E-06	Below	Yes
Hexane	110-54-3	1.80E+00	5.76E-02	2.52E-01	1.20E+01	Below	Yes
Naphthalene	91-20-3	6.10E-04	1.95E-05	8.54E-05	9.10E-05	Below	Yes
Toluene	108-88-3	3.40E-03	1.09E-04	4.77E-04	2.50E+01	Below	Yes
2-Methylnapthalene	97-57-6	2.40E-05	7.68E-07	3.36E-06			Yes
7, 12 - Dimethylbenz(a)anthracene		1.60E-05	5.12E-07	2.24E-06			Yes
Acenaphthene	83-32-9	1.80E-06	5.76E-08	2.52E-07			Yes
Acenaphyhylene	203-96-8	1.80E-06	5.76E-08	2.52E-07			Yes
Anthracene	120-12-7	2.40E-06	7.68E-08	3.36E-07			Yes
Dichlorobenzene	25321-22-6	1.20E-03	3.84E-05	1.68E-04			Yes
Flouranthene	206-44-0	3.00E-06	9.60E-08	4.20E-07			Yes
Fluorene	86-73-7	2.80E-06	8.96E-08	3.92E-07			Yes
Phenanthrene	85-01-8	1.70E-05	5.44E-07	2.38E-06			Yes
Benzo(a)anthracene*	56-55-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(b)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(g,h,i)perylene	191-24-2	1.20E-06	3.84E-08	1.68E-07			Yes
Benzo(k)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Chrysene*	218-01-9	1.80E-06	5.76E-08	2.52E-07			Yes
Dibenzo(a,h)anthracene*	53-70-3	1.20E-06	3.84E-08	1.68E-07			Yes
Indeno(1,2,3-cd)pyrene*	193-39-5	1.80E-06	5.76E-08	2.52E-07			Yes

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 3

Toxic Air Pollutants Metals [5]	CAS Number	Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	PTE Emission Rate vs. EL	CAA 112(b) HAP?
Mercury	7439-97-6	2.60E-04	8.32E-06	3.64E-05			Yes
Arsenic	7440-38-2	2.00E-04	6.40E-06	2.80E-05	1.50E-06	**Exceeds**	Yes
Nickel	7440-02-0	2.10E-03	6.72E-05	2.94E-04	2.75E-05	**Exceeds**	Yes
Beryllium	7440-41-7	1.20E-05	3.84E-07	1.68E-06	2.80E-05	Below	Yes
Cadmium	7440-43-9	1.10E-03	3.52E-05	1.54E-04	3.70E-06	**Exceeds**	Yes
Chromium	7440-47-3	1.40E-03	4.48E-05	1.96E-04	3.30E-02	Below	Yes
Cobalt	7440-48-4	8.40E-05	2.69E-06	1.18E-05	3.30E-03	Below	Yes
Manganese	7439-96-5	3.80E-04	1.22E-05	5.34E-05	6.70E-02	Below	Yes
Molybdenum	7439-98-7	1.10E-03	3.52E-05	1.54E-04	3.33E-01	Below	Yes
Selenium	7782-49-2	2.40E-05	7.68E-07	3.36E-06	1.30E-02	Below	Yes
Vanadium	1314-62-1	2.30E-03	7.36E-05	3.22E-04	3.00E-03	Below	No
Zinc	7440-66-6	2.90E-02	9.28E-04	4.06E-03	3.33E-01	Below	No
Barium	7440-39-3	4.40E-03	1.41E-04	6.18E-04	3.30E-02	Below	No
Copper	7440-50-8	8.50E-04	2.72E-05	1.19E-04	1.30E-02	Below	No
		Total Non-Metal HAPs	6.02E-02	2.64E-01			
		Total Metal HAPs	2.13E-04	9.33E-04			
		Total HAPs	0.06	0.26			

Notes:

[1] Criteria Pollutants as stated in Cleaver Brooks Boiler Expected Emission Data for Model CB(LE). PM emission factor is assumed to equal PM10.

[2] Lead Emission factor from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-2. Emission factor units is lb/10^6 SCF.

[3] Toxic Air Pollutants (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3).

[4] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[5] Metals from Natural Gas Combustion (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4).

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 3

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Boiler 3 Input (SCF/hr)	Boiler 3 Input (SCF/yr)	Boiler 3 Emission Rate[6,7,8] (metric ton/yr)
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C	32,019	280,486,440	15287.79
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-02
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-01
CO2e			40 CFR 98 Part A			15,302.78

Notes

[6]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[8]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)

Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 4

Boiler Heat Input (MMBTU/hr)	32.659
Manufacturer	Cleaver Brooks
Model No.	CBLE-700-800
Fuel Type	Natural Gas
Natural Gas Fuel Heat Value (BTU/SCF)	1,020
Natural Gas Use (10^6 scf/hr)	0.0320
Annual Operation (hrs/yr)	8,760

Cleaver Brooks Boiler Expected Emission Data for Model CB(LE)

Criteria Pollutant	Emission Factor[1] (lb/MM Btu)	Emission Rate (lb/hr)	Emission Rate (ton/year)
Total Particulate Matter (PM)	0.010	0.33	1.45
Nitrogen Oxides (NOx)	0.071	2.32	10.16
Sulfur Dioxide (SO_2)	0.0006	0.02	0.09
Carbon Monoxide (CO)	0.036	1.18	5.17
VOC	0.004	0.13	0.57
Lead[2]	5.00E-04	1.60E-05	7.01E-05

PM gr/scf at 3% O2 = PM lb/MMBTU x (20.9-3)/20.9 x 7000 gr/1 lb x 1/f Factor for NG dscf/MMBTU

PM gr/scf at 3% O2 **0.007 gr/dscf**

where:

f factor for NG = 8710 dscf/MMBTU 40 CFR Part 75 specifies a Fd value of 8,710 dscf/mmBtu

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 4

Toxic Air Pollutants Non-metals [3]	CAS No.	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	CAA 112(b) HAP?
Pentane	109-66-0	2.60E+00	8.32E-02	3.64E-01	1.18E+02	Below	No
Benzene	71-43-2	2.10E-03	6.72E-05	2.94E-04	8.00E-04	Below	Yes
3-Methylchloranthrene	56-49-5	1.80E-06	5.76E-08	2.52E-07	2.50E-06	Below	Yes
Benzo(a)pyrene*	50-32-8	1.20E-06	3.84E-08	1.68E-07	2.00E-06	Below	Yes
Formaldehyde	50-00-0	7.50E-02	2.40E-03	1.05E-02	5.10E-04	**Exceeds**	Yes
POM (7-PAH)[4]			3.65E-07	1.60E-06	2.00E-06	Below	Yes
Hexane	110-54-3	1.80E+00	5.76E-02	2.52E-01	1.20E+01	Below	Yes
Naphthalene	91-20-3	6.10E-04	1.95E-05	8.54E-05	9.10E-05	Below	Yes
Toluene	108-88-3	3.40E-03	1.09E-04	4.77E-04	2.50E+01	Below	Yes
2-Methylnapthalene	97-57-6	2.40E-05	7.68E-07	3.36E-06			Yes
7, 12 - Dimethylbenz(a)anthracene		1.60E-05	5.12E-07	2.24E-06			Yes
Acenaphthene	83-32-9	1.80E-06	5.76E-08	2.52E-07			Yes
Acenaphyhylene	203-96-8	1.80E-06	5.76E-08	2.52E-07			Yes
Anthracene	120-12-7	2.40E-06	7.68E-08	3.36E-07			Yes
Dichlorobenzene	25321-22-6	1.20E-03	3.84E-05	1.68E-04			Yes
Flouranthene	206-44-0	3.00E-06	9.60E-08	4.20E-07			Yes
Fluorene	86-73-7	2.80E-06	8.96E-08	3.92E-07			Yes
Phenanthrene	85-01-8	1.70E-05	5.44E-07	2.38E-06			Yes
Benzo(a)anthracene*	56-55-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(b)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(g,h,i)perylene	191-24-2	1.20E-06	3.84E-08	1.68E-07			Yes
Benzo(k)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Chrysene*	218-01-9	1.80E-06	5.76E-08	2.52E-07			Yes
Dibenzo(a,h)anthracene*	53-70-3	1.20E-06	3.84E-08	1.68E-07			Yes
Indeno(1,2,3-cd)pyrene*	193-39-5	1.80E-06	5.76E-08	2.52E-07			Yes

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 4

Toxic Air Pollutants Metals [5]	CAS Number	Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	PTE Emission Rate vs. EL	CAA 112(b) HAP?
Mercury	7439-97-6	2.60E-04	8.32E-06	3.64E-05			Yes
Arsenic	7440-38-2	2.00E-04	6.40E-06	2.80E-05	1.50E-06	**Exceeds**	Yes
Nickel	7440-02-0	2.10E-03	6.72E-05	2.94E-04	2.75E-05	**Exceeds**	Yes
Beryllium	7440-41-7	1.20E-05	3.84E-07	1.68E-06	2.80E-05	Below	Yes
Cadmium	7440-43-9	1.10E-03	3.52E-05	1.54E-04	3.70E-06	**Exceeds**	Yes
Chromium	7440-47-3	1.40E-03	4.48E-05	1.96E-04	3.30E-02	Below	Yes
Cobalt	7440-48-4	8.40E-05	2.69E-06	1.18E-05	3.30E-03	Below	Yes
Manganese	7439-96-5	3.80E-04	1.22E-05	5.34E-05	6.70E-02	Below	Yes
Molybdenum	7439-98-7	1.10E-03	3.52E-05	1.54E-04	3.33E-01	Below	Yes
Selenium	7782-49-2	2.40E-05	7.68E-07	3.36E-06	1.30E-02	Below	Yes
Vanadium	1314-62-1	2.30E-03	7.36E-05	3.22E-04	3.00E-03	Below	No
Zinc	7440-66-6	2.90E-02	9.28E-04	4.06E-03	3.33E-01	Below	No
Barium	7440-39-3	4.40E-03	1.41E-04	6.18E-04	3.30E-02	Below	No
Copper	7440-50-8	8.50E-04	2.72E-05	1.19E-04	1.30E-02	Below	No
		Total Non-Metal HAPs	6.02E-02	2.64E-01			
		Total Metal HAPs	2.13E-04	9.33E-04			
		Total HAPs	0.06	0.26			

Notes:

[1] Criteria Pollutants as stated in Cleaver Brooks Boiler Expected Emission Data for Model CB(LE). PM emission factor is assumed to equal PM10.

[2] Lead Emission factor from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-2. Emission factor units is lb/10^6 SCF.

[3] Toxic Air Pollutants (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3).

[4] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[5] Metals from Natural Gas Combustion (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4).

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 4

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Boiler 4 Input (SCF/hr)	Boiler 4 Input (SCF/yr)	Boiler 4 Emission Rate[6,7,8] (metric ton/yr)
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C	32,019	280,486,440	15287.79
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-02
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-01
CO2e			40 CFR 98 Part A			15,302.78

Notes

[6]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[8]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)

Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 5

Boiler Heat Input (MMBTU/hr)	32.659
Manufacturer	Cleaver Brooks
Model No.	CBLE-700-800
Fuel Type	Natural Gas
Natural Gas Fuel Heat Value (BTU/SCF)	1,020
Natural Gas Use (10^6 scf/hr)	0.0320
Annual Operation (hrs/yr)	8,760

Cleaver Brooks Boiler Expected Emission Data for Model CB(LE)

Criteria Pollutant	Emission Factor[1] (lb/MM Btu)	Emission Rate (lb/hr)	Emission Rate (ton/year)
Total Particulate Matter (PM)	0.010	0.33	1.45
Nitrogen Oxides (NOx)	0.071	2.32	10.16
Sulfur Dioxide (SO_2)	0.0006	0.02	0.09
Carbon Monoxide (CO)	0.036	1.18	5.17
VOC	0.004	0.13	0.57
Lead[2]	5.00E-04	1.60E-05	7.01E-05

PM gr/scf at 3% O2 = PM lb/MMBTU x (20.9-3)/20.9 x 7000 gr/1 lb x 1/f Factor for NG dscf/MMBTU

PM gr/scf at 3% O2 **0.007 gr/dscf**

where:

f factor for NG = 8710 dscf/MMBTU 40 CFR Part 75 specifies a Fd value of 8,710 dscf/mmBtu

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 5

Toxic Air Pollutants Non-metals [3]	CAS No.	EPA AP-42 Natural Gas Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	Emission Rate vs. EL	CAA 112(b) HAP?
Pentane	109-66-0	2.60E+00	8.32E-02	3.64E-01	1.18E+02	Below	No
Benzene	71-43-2	2.10E-03	6.72E-05	2.94E-04	8.00E-04	Below	Yes
3-Methylchloranthrene	56-49-5	1.80E-06	5.76E-08	2.52E-07	2.50E-06	Below	Yes
Benzo(a)pyrene*	50-32-8	1.20E-06	3.84E-08	1.68E-07	2.00E-06	Below	Yes
Formaldehyde	50-00-0	7.50E-02	2.40E-03	1.05E-02	5.10E-04	**Exceeds**	Yes
POM (7-PAH)[4]			3.65E-07	1.60E-06	2.00E-06	Below	Yes
Hexane	110-54-3	1.80E+00	5.76E-02	2.52E-01	1.20E+01	Below	Yes
Naphthalene	91-20-3	6.10E-04	1.95E-05	8.54E-05	9.10E-05	Below	Yes
Toluene	108-88-3	3.40E-03	1.09E-04	4.77E-04	2.50E+01	Below	Yes
2-Methylnapthalene	97-57-6	2.40E-05	7.68E-07	3.36E-06			Yes
7, 12 - Dimethylbenz(a)anthracene		1.60E-05	5.12E-07	2.24E-06			Yes
Acenaphthene	83-32-9	1.80E-06	5.76E-08	2.52E-07			Yes
Acenaphyhylene	203-96-8	1.80E-06	5.76E-08	2.52E-07			Yes
Anthracene	120-12-7	2.40E-06	7.68E-08	3.36E-07			Yes
Dichlorobenzene	25321-22-6	1.20E-03	3.84E-05	1.68E-04			Yes
Flouranthene	206-44-0	3.00E-06	9.60E-08	4.20E-07			Yes
Fluorene	86-73-7	2.80E-06	8.96E-08	3.92E-07			Yes
Phenanthrene	85-01-8	1.70E-05	5.44E-07	2.38E-06			Yes
Benzo(a)anthracene*	56-55-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(b)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Benzo(g,h,i)perylene	191-24-2	1.20E-06	3.84E-08	1.68E-07			Yes
Benzo(k)fluoranthene*	205-82-3	1.80E-06	5.76E-08	2.52E-07			Yes
Chrysene*	218-01-9	1.80E-06	5.76E-08	2.52E-07			Yes
Dibenzo(a,h)anthracene*	53-70-3	1.20E-06	3.84E-08	1.68E-07			Yes
Indeno(1,2,3-cd)pyrene*	193-39-5	1.80E-06	5.76E-08	2.52E-07			Yes

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 5

Toxic Air Pollutants Metals [5]	CAS Number	Emission Factor (lb/10^6 scf)	Emission Rate (lb/hr)	Emission Rate (ton/year)	IDAPA 58.01.01.585/586 EL (lb/hr)	PTE Emission Rate vs. EL	CAA 112(b) HAP?
Mercury	7439-97-6	2.60E-04	8.32E-06	3.64E-05			Yes
Arsenic	7440-38-2	2.00E-04	6.40E-06	2.80E-05	1.50E-06	**Exceeds**	Yes
Nickel	7440-02-0	2.10E-03	6.72E-05	2.94E-04	2.75E-05	**Exceeds**	Yes
Beryllium	7440-41-7	1.20E-05	3.84E-07	1.68E-06	2.80E-05	Below	Yes
Cadmium	7440-43-9	1.10E-03	3.52E-05	1.54E-04	3.70E-06	**Exceeds**	Yes
Chromium	7440-47-3	1.40E-03	4.48E-05	1.96E-04	3.30E-02	Below	Yes
Cobalt	7440-48-4	8.40E-05	2.69E-06	1.18E-05	3.30E-03	Below	Yes
Manganese	7439-96-5	3.80E-04	1.22E-05	5.34E-05	6.70E-02	Below	Yes
Molybdenum	7439-98-7	1.10E-03	3.52E-05	1.54E-04	3.33E-01	Below	Yes
Selenium	7782-49-2	2.40E-05	7.68E-07	3.36E-06	1.30E-02	Below	Yes
Vanadium	1314-62-1	2.30E-03	7.36E-05	3.22E-04	3.00E-03	Below	No
Zinc	7440-66-6	2.90E-02	9.28E-04	4.06E-03	3.33E-01	Below	No
Barium	7440-39-3	4.40E-03	1.41E-04	6.18E-04	3.30E-02	Below	No
Copper	7440-50-8	8.50E-04	2.72E-05	1.19E-04	1.30E-02	Below	No
		Total Non-Metal HAPs	6.02E-02	2.64E-01			
		Total Metal HAPs	2.13E-04	9.33E-04			
		Total HAPs	0.06	0.26			

Notes:

[1] Criteria Pollutants as stated in Cleaver Brooks Boiler Expected Emission Data for Model CB(LE). PM emission factor is assumed to equal PM10.

[2] Lead Emission factor from EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-2. Emission factor units is lb/10^6 SCF.

[3] Toxic Air Pollutants (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-3).

[4] Polycyclic Organic Matter (POM) is considered as one TAP consisting of benzo(a)pyrene, benzo(a)anthracene, benzo(b)flouranthene, dibenzo(a,h)anthracene, chrysene, indenol(1,2,3,-cd)pyrene, and benzo(a)pyrene. Compounds constituting POM are designated as *.

[5] Metals from Natural Gas Combustion (EPA AP-42, Section 1.4 Natural Gas Combustion, Table 1.4-4).

AgroFarma Twin Falls - Chobani Facility Emissions Estimate

Natural Gas Boiler 5

Green House Gases	EF (Natural Gas) kg/MMBtu	HHV	Reference	Boiler 5 Input (SCF/hr)	Boiler 5 Input (SCF/yr)	Boiler 5 Emission Rate[6,7,8] (metric ton/yr)
CO_2	53.02	1.028E-03	40 CFR 98 Subpart C	32,019	280,486,440	15287.79
N_2O	1.0E-04	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-02
CH_4	1.0E-03	1.028E-03	40 CFR 98 Subpart C Equation C-8 (Tiers 1 & 3)	32,019	280,486,440	2.883E-01
CO2e			40 CFR 98 Part A			15,302.78

Notes

[6]Eqn C-1: $CO_2 = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CO_2 emission factor for natural gas, from Table C-1 of 40 CFR Part 98 Subpart C (kg CO_2/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[7]Eqn C-8: CH_4 or $N_2O = 1 \times 10^{-3} \times \text{Fuel} \times \text{HHV} \times \text{EF}$

Fuel = Volume of fuel combusted per year, (SCF/Year)

EF = Fuel-specific default CH_4 or N_2O emission factor for natural gas, from Table C-2 of 40 CFR Part 98 Subpart C (kg CH_4 or N_2O/MMBTU)

HHV = Default high heat value of the fuel, from Table C-1 of 40 CFR Part 98 Subpart C (MMBTU/SCF)

1×10^{-3} = Conversion Factor from Kilograms to Metric Tons

[8]CO_2e = (GWP CO_2 x CO_2 metric ton/yr) + (GWP CH4 x CH4 metric ton/yr) + (GWP N_2O x N_2O metric ton/yr)

Global Warming Potential (GWP) for Selected GHG - 40 CFR 98 Subpart A, Table A-1

GWP CO_2 =	1.00
GWP CH_4 =	21.00
GWP N_2O =	310.00

AgroFarma Twin Falls - Chobani Facilty Emissions Estimate

Anhydrous Ammonia Refrigeration System

Anhydrous Ammonia Refrigeration System (11 Chillers)	Capacity (lb/hr)	Emission Rate[1] (lb emitted/SCC unit)	Ammonia Emissions (lb/hr)	IDAPA 58.01.01.585/586 TAP Screening Levels (lb/hr)	Estimated Emissions Exceed TAP Screening Levels (Yes/No)
Chillers	14,850	0.30	2.23		
Total Emissions			2.23	1.20	Yes

Notes:

[1] Emission rates derived from AP-42, Section 9, Development and Selection of Ammonia Emission Factors, Table 7.3, low density prill coolers. Emission factors represent the combined refrigerant loss types of intial, operating, intermittent, and disposal. SCC unit refers to tons produced.

AgroFarma Twin Falls - Chobani Facility Emissions Estimate
Cooling Tower

Cooling Tower Parameters

Number of One Cell Towers[1]	12
Total Water Flow Rate (gal/min)[1]	34,140
Flow of cooling water (lbs/hr)	17,083,656
TDS of blowdown (mg/l or ppmw)[1]	1,500
Flow of dissolved solids (lbs/hr)	25,625
Fraction of flow producing PM_{10} drift[2]	0.300
Control efficiency of drift eliminators (gal drift/gal flow)[1]	0.00005
Number of cells per tower (outlet fans)[1]	1
Height at cell release (ft)[1]	77
Discharge flow per cell (ACFM)[1]	314,078
Diameter of each cell (ft)[1]	13
Area of cell discharge (ft^2)[1]	139.6
Average Temperature of cell discharge (degF)[1]	80.3
Exit Velocity (ft/s):	37.50

Cooling Tower Emissions

PM Emissions (lb/hr)	PM Emissions (ton/yr)	PM_{10} Emissions (lb/hr)	PM_{10} Emissions (ton/yr)	$PM_{2.5}$ Emissions (lb/hr)[3]	$PM_{2.5}$ Emissions (ton/yr)[3]
1.28	5.61	0.38	1.66	0.38	1.66

PM-10 Emissions from Each Cooling Tower (lb/hr) 0.03

Notes:
Emission Calculation Method from AP 42, Sect.13.4-1

[1] As provided in the Environmental Permitting Data, Shambaugh & Son Job 170993, 12/192011 (attachment to email from Matt Meier/MSKTD & Associates on December 20,2011)

[2] From "Calculating Realistic PM_{10} Emissions From Cooling Towers" (J. Reisman, G. Frisbie). Presented at 2001 AWMA Annual Meeting.

[3] Assumes that $PM_{2.5}$ emissions are equal to PM_{10} emissions.

APPENDIX B – AMBIENT AIR QUALITY IMPACT ANALYSES

APPENDIX C – FACILITY DRAFT COMMENTS

No comments were received from the facility on March 23, 2012.

APPENDIX D – PROCESSING FEE

PTC Fee Calculation

Instructions:
Fill in the following information and answer the following questions with a Y or N. Enter the emissions increases and decreases for each pollutant in the table.

Company:	**Agro Farma Twin Falls - Chobani Facility**
Address:	**3450 Kimberly Road East**
City:	**Twin Falls**
State:	**Idaho**
Zip Code:	**83301**
Facility Contact:	**John Winnie**
Title:	**Director of Operations; Idaho Facility**
AIRS No.:	**083-00138**

N	Does this facility qualify for a general permit (i.e. concrete batch plant, hot-mix asphalt plant)? Y/N
Y	Did this permit require engineering analysis? Y/N
N	Is this a PSD permit Y/N (IDAPA 58.01.01.205.04)

Emissions Inventory			
Pollutant	Annual Emissions Increase (T/yr)	Annual Emissions Reduction (T/yr)	Annual Emissions Change (T/yr)
NO_X	56.9	0	56.9
SO_2	0.5	0	0.5
CO	31.2	0	31.2
PM10	8.9	0	8.9
VOC	3.2	0	3.2
TAPS/HAPS	1.4	0	1.4
Total:	0.0	0	**102.0**
Fee Due	**$ 7,500.00**		

Comments: