

Facility DEC ID: 2620501807

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 2-6205-01807/00001
Mod 0 Effective Date: 03/29/2017 Expiration Date: 03/28/2027
Mod 1 Effective Date: 12/28/2020 Expiration Date: 03/28/2027

Permit Issued To: STARBUCKS MANUFACTURING CORPORATION
PO BOX 34442, S-TAX
SEATTLE, WA 98124-1442

Contact: ANGUS MAXWELL
61 9th Avenue
New York, NY 10011
(646) 306-2738

Facility: STARBUCKS RESERVE ROASTERY
61 9TH AVE
NEW YORK, NY 10011

Contact: ANGUS MAXWELL
61 9th Avenue
New York, NY 10011
(646) 306-2738

Description:

This is a coffee roasting and coffee shop facility. The roasting facility includes two coffee roasters, Probat P25 and Probat G120, which fire natural gas exclusively and have maximum heat input capacities of 0.205 and 2.5 million British thermal units per hour (MMBtu/hr), respectively. The exhaust from each coffee roaster and its associated cooling tray is vented through process cyclones to collect particulates from the roasting process before being ducted to afterburners to control emissions and odors.

The design roasting capacity of P25 and G120 are 220 pounds/hr green coffee beans and 1,056 pounds/hr green coffee beans respectively. The maximum roasting capacity achieved during the October 2019 source testing was 148 pounds/hr green coffee beans for P25 and 546 pounds/hr green coffee beans for G120.

Emissions from the coffee roasting equipment will include criteria pollutants Nitrogen Oxides (NO_x), Carbon Monoxide (CO), Volatile Organic Compounds (VOC), Particulate Matter (PM), Sulfur Dioxide (SO₂), and Lead; certain Hazardous Toxic Air Contaminants—Acetaldehyde, Acrolein, and

Facility DEC ID: 2620501807

Formaldehyde; and Carbon Dioxide (CO2). Starbucks is subject to the requirements of 6 NYCRR Part 212.

This application is to modify the current permit to incorporate updates to emission rates and operating limits for its two coffee bean roasters. As required by the previous permit, a stack emission testing was conducted in October 2019 to determine the emission rates for formaldehyde and acrolein, and an air dispersion modeling was performed with these results to demonstrate compliance with 6 NYCRR Part 212. Based on the air dispersion modeling results, and stack emission testing, with this permit modification application, Starbucks' annual throughput of green coffee beans roasting for roasters will be limited to 518 tpy and 1909 tpy for P25 and G120 respectively. Roasters' hourly emission limits for formaldehyde and acrolein, and the minimum required afterburner temperatures will also be modified with this permit modification.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: STEPHEN A WATTS
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5401

Authorized Signature: _____ Date: ___ / ___ / ____

Facility DEC ID: 2620501807

Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

Facility DEC ID: 2620501807

PAGE LOCATION OF CONDITIONS

PAGE

DEC GENERAL CONDITIONS

General Provisions

- 4 1 Facility Inspection by the Department
- 4 2 Relationship of this Permit to Other Department Orders and Determinations
- 4 3 Applications for permit renewals, modifications and transfers
- 5 4 Applications for permit renewals, modifications and transfers
- 5 5 Permit modifications, suspensions or revocations by the Department

Facility Level

- 5 6 Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS

Facility DEC ID: 2620501807

DEC GENERAL CONDITIONS
****** General Provisions ******
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Facility DEC ID: 2620501807

Condition 1-1: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 1-1.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 1-1.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 1-1.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
 NYSDEC Regional Permit Administrator
 Region 2 Headquarters
 Division of Environmental Permits
 1 Hunters Point Plaza, 4740 21st Street
 Long Island City, NY 11101-5407

Division of Air Resources



Facility DEC ID: 2620501807

(718) 482-4997

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: STARBUCKS MANUFACTURING CORPORATION
PO BOX 34442, S-TAX
SEATTLE, WA 98124-1442

Facility: STARBUCKS RESERVE ROASTERY
61 9TH AVE
NEW YORK, NY 10011

Authorized Activity By Standard Industrial Classification Code:
2095 - ROASTED COFFEE
5812 - EATING PLACES

Mod 0 Permit Effective Date: 03/29/2017

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Mod 1 Permit Effective Date: 12/28/2020

Permit Expiration Date: 03/28/2027

PAGE LOCATION OF CONDITIONS

PAGE

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 6 13 6 NYCRR 211.2: Visible Emissions Limited
- 6 1-1 6 NYCRR 212-1.6 (a): Compliance Demonstration

Emission Unit Level

EU=1-00P25,EP=00001,Proc=001

- 8 1-2 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 8 1-3 6 NYCRR 212-2.4 (b): Compliance Demonstration

EU=1-0G120,EP=00002,Proc=002

- 10 1-4 6 NYCRR 212-1.7 (b): Compliance Demonstration
- 11 1-5 6 NYCRR 212-2.4 (b): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 13 8 ECL 19-0301: Contaminant List
- 14 9 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 14 10 6 NYCRR Subpart 201-5: Emission Unit Definition
- 15 11 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 15 1-6 6 NYCRR 201-5.3 (c): CLCPA Applicability
- 16 12 6 NYCRR 201-5.3 (c): Compliance Demonstration
- 16 1 6 NYCRR 211.1: Air pollution prohibited

Emission Unit Level

- 17 14 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 17 15 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=1-00P25,EP=00001,Proc=001,ES=A0001

- 18 1-7 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 19 1-8 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 19 1-9 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 20 1-10 6 NYCRR 212-2.3 (b): Compliance Demonstration

EU=1-0G120,EP=00002,Proc=002,ES=A0002

- 21 1-11 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 22 1-12 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 23 1-13 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 24 1-14 6 NYCRR 212-2.3 (b): Compliance Demonstration

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

FEDERALLY ENFORCEABLE CONDITIONS

Mod 1/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

If an existing emission source was subject to the permitting requirements of 6 NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

(a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.

(b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 13: Visible Emissions Limited
Effective between the dates of 03/29/2017 and 03/28/2027

Applicable Federal Requirement:6 NYCRR 211.2

Item 13.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 1-1: Compliance Demonstration
Effective between the dates of 12/28/2020 and 03/28/2027

Applicable Federal Requirement:6 NYCRR 212-1.6 (a)

Item 1-1.1:

The Compliance Demonstration activity will be performed for the facility:
 The Compliance Demonstration applies to:

Emission Unit: 1-00P25	Emission Point: 00001
Process: 001	
Emission Unit: 1-0G120	Emission Point: 00002
Process: 002	

Item 1-1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source,

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

except only the emission of uncombined water. The Department reserves the right to perform or require the performance of an EPA Reference Test Method 9 opacity evaluation at any time during facility operation.

The facility owner or operator shall conduct a visible emissions observation of all emission points specified by this condition once per day while the process is in operation. The facility owner or operator will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard specified below.

The facility owner or operator shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the limit specified (except the emission of uncombined water) are observed for three consecutive operating days from the same emission point, the facility owner or operator will notify the Department of the observations within one business day. The facility owner or operator will also perform an EPA Reference Test Method 9 opacity evaluation analysis of the affected emission point and submit the results to the Department.

Daily records of the visible emissions observations, any follow-up Method 9 observations, investigations, and corrective actions taken are to be maintained on site for a period of at least five years from the date of the record. Such records shall include the date and time of each observation, weather conditions, results of the observation, corrective actions taken, and explanations for days when weather conditions were prohibitive.

All records kept pursuant to this condition must be provided to the Department upon request.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: EPA Reference Test Method 9
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

****** Emission Unit Level ******

Condition 1-2: Compliance Demonstration

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Effective between the dates of 12/28/2020 and 03/28/2027

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 1-2.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00P25
Process: 001

Emission Point: 00001

Item 1-2.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The afterburner installed for each coffee roaster exhaust must be operated at all times while the coffee roaster is operational.

The afterburner must maintain a minimum temperature established during the most recent stack test. The afterburner must maintain a minimum hourly average temperature of 1259 Degree Fahrenheit as established during the most recent stack test conducted in October 2019 (see condition for 6 NYCRR Part 212.2.3(b)).

Temperature monitoring device for each coffee roaster afterburner shall continuously monitor and record the temperature inside the afterburner to demonstrate compliance with the minimum temperature requirement when the coffee roaster is operational except during any quality assurance and routine maintenance activities.

All equipment shall be installed and maintained in accordance with the manufacturer's instructions and specifications.

All operating and maintenance records shall be kept at the facility for a minimum of five years and must be available to the Department upon request.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1259 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-3: Compliance Demonstration

Effective between the dates of 12/28/2020 and 03/28/2027

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 1-3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00P25 Emission Point: 00001
 Process: 001

Regulated Contaminant(s):
 CAS No: 0NY075-00-0 PARTICULATES

Item 1-3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No facility owner or operator shall cause or allow emissions of particulates that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except in instances where determination of permissible emission rate using process weight for a specific source category emitting solid particulate is based upon Table 5 and Table 6 of Subdivisions 212-2.5(a) and (b) of this Part.

Starbucks shall conduct a stack test once during 10 years or Upon request by the agency to verify the particulates emission rate. Initial stack testing demonstrating compliance with this limit was conducted in October 2019.

Facility must submit a stack test protocol to the Department for approval at least 90 days prior to the testing. Facility must perform stack test based on an approved stack test protocol, and then submit to the Department the stack test report for approval, within 60 days of performing the test. The owner or operator shall maintain all records on-site for a minimum of five years and must be available to the Department upon request.

Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.050 grains per dscf
 Reference Test Method: 40 CFR 60 Appendix A Method 5
 Monitoring Frequency: ONCE EVERY TEN YEARS
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-4: Compliance Demonstration

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Effective between the dates of 12/28/2020 and 03/28/2027

Applicable Federal Requirement: 6 NYCRR 212-1.7 (b)

Item 1-4.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0G120
Process: 002

Emission Point: 00002

Item 1-4.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

The afterburner installed for each coffee roaster exhaust must be operated at all times while the coffee roaster is operational.

The afterburner must maintain a minimum temperature established during the most recent stack test.

The afterburner must maintain a minimum hourly average temperature of 1254 Degree Fahrenheit as established during the most recent stack test conducted in October 2019 (see condition for 6 NYCRR Part 212.2.3(b)).

Temperature monitoring device for each coffee roaster afterburner shall continuously monitor and record the temperature inside the afterburner to demonstrate compliance with the minimum temperature requirement when the coffee roaster is operational except during any quality assurance and routine maintenance activities.

All equipment shall be installed and maintained in accordance with the manufactures instructions and specifications.

All operating and maintenance records shall be kept at the facility for a minimum of five years and must be available to the Department upon request.

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 1254 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 1-5: Compliance Demonstration

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Effective between the dates of 12/28/2020 and 03/28/2027

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 1-5.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0G120 Emission Point: 00002
 Process: 002

Regulated Contaminant(s):
 CAS No: 0NY075-00-0 PARTICULATES

Item 1-5.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

No facility owner or operator shall cause or allow emissions of particulate that exceed 0.050 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except in instances where determination of permissible emission rate using process weight for a specific source category emitting solid particulate is based upon Table 5 and Table 6 of Subdivisions 212-2.5(a) and (b) of this Part.

Starbucks shall conduct a stack test once during 10 years or Upon request by the agency to verify the particulates emission rate. Initial stack testing demonstrating compliance with this limit was conducted in October 2019.

Facility must submit a stack test protocol to the Department for approval at least 90 days prior to the testing. Facility must perform stack test based on an approved stack test protocol, and then submit to the Department the stack test report for approval, within 60 days of performing the test. The owner or operator shall maintain all records on-site for a minimum of five years and must be available to the Department upon request.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: 40 CFR 60 Appendix A Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records.

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

Item C: **General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 8: Contaminant List

Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement: ECL 19-0301

Item 8.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 000107-02-8
Name: ACROLEIN

CAS No: 0NY075-00-0
Name: PARTICULATES

Condition 9: Malfunctions and start-up/shutdown activities

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR 201-1.4**Item 9.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 10: Emission Unit Definition

Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR Subpart 201-5**Item 10.1(From Mod 1):**

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-00P25

Emission Unit Description:

This emission unit includes the P25 Roaster (Emission

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Source R0001) and its associated afterburner (Emission Source A0001).

Probat Model GP25 Roaster has a design capacity of roasting up to 55 pounds of green coffee beans per batch with a maximum of four batches per hour. Maximum roasting capacity achieved during the October 2019 source testing was 148 pounds of green beans per hour. P25 coffee roaster and the associated afterburner have heat input capacities of 0.205 mmBTU/hr and 3.5 MMBTU/hr respectively.

P25 roaster is limited to 518 tons of green coffee roasting per 12-month rolling period.

Building(s): 1

Item 10.2(From Mod 1):

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-0G120

Emission Unit Description:

This emission unit includes the G120 Roaster (Emission Source R0002) and its associated afterburner (Emission Source A0002).

Probat Model G120 Roaster has a design capacity of roasting up to 264 pounds of green coffee beans per batch with a maximum of four batches per hour. Maximum roasting capacity achieved during the October 2019 source testing was 546 pounds green coffee beans per hour. G120 coffee roaster and the associated afterburner have heat input capacities of 2.5 MMBTU/hr and 8.7 MMBTU/hr respectively.

G120 roaster is limited to 1909 tons of green coffee bean roasting per 12-month rolling period.

Building(s): 1

Condition 11: Renewal deadlines for state facility permits
Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 11.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 1-6: CLCPA Applicability
Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Item 1-6.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 12: Compliance Demonstration
Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 12.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
NYS Dept. of Environmental Conservation
Region 2
47-40 21st St.
Long Island City, NY 11101

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 45 days after the reporting period.

The initial report is due 5/15/2017.

Subsequent reports are due every 12 calendar month(s).

Condition 1: Air pollution prohibited
Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR 211.1

Item 1.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

****** Emission Unit Level ******

Condition 14: Emission Point Definition By Emission Unit
Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 14.1(From Mod 1):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-00P25

Emission Point: 00001

Height (ft.): 181 Diameter (in.): 18
 NYTMN (km.): 4510.554 NYTME (km.): 583.944 Building: 1

Item 14.2(From Mod 1):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-0G120

Emission Point: 00002

Height (ft.): 181 Diameter (in.): 30
 NYTMN (km.): 4510.554 NYTME (km.): 583.943 Building: 1

Condition 15: Process Definition By Emission Unit
Effective between the dates of 03/29/2017 and 03/28/2027

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 15.1(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-00P25

Process: 001 Source Classification Code: 3-02-002-20

Process Description:

Process 001 is defined as coffee roasting in the P25 coffee roaster. Green coffee beans are fed into the roaster, and after the roasting process are fed into the cooling tray. Air from the roaster and cooling tray are ducted to the afterburner.

Emission Source/Control: A0001 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: R0001 - Process

Design Capacity: 220 pounds per hour

Item 15.2(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Emission Unit: 1-0G120

Process: 002

Source Classification Code: 3-02-002-20

Process Description:

Process 002 is defined as coffee roasting in the G120 coffee roaster. Green coffee beans are fed into the roaster, and after the roasting process are fed into the cooling tray. Air from the roaster and cooling tray are ducted to the afterburner.

Emission Source/Control: A0002 - Control

Control Type: THERMAL OXIDATION

Emission Source/Control: R0002 - Process

Design Capacity: 1,056 pounds per hour

Condition 1-7: Compliance Demonstration

Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 1-7.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00P25

Emission Point: 00001

Process: 001

Emission Source: A0001

Item 1-7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Roaster P25 green coffee beans roasting is limited to 148 lbs/hr, the maximum capacity achieved during the October 2019 stack test, which was used to determine acrolein and formaldehyde emission factors and minimum required afterburner operating temperature.

The facility shall maintain onsite records verifying the hourly roasting for a minimum period of five years.

Parameter Monitored: GREEN BEANS

Upper Permit Limit: 148 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT
ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 45 days after the reporting period.

The initial report is due 5/15/2021.

Subsequent reports are due every 12 calendar month(s).

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Condition 1-8: Compliance Demonstration
Effective between the dates of 12/28/2020 and 03/28/2027**Applicable State Requirement: 6 NYCRR 212-2.3 (b)****Item 1-8.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00P25 Emission Point: 00001
Process: 001 Emission Source: A0001Regulated Contaminant(s):
CAS No: 000107-02-8 ACROLEIN**Item 1-8.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Acrolein emission rate shall be limited to 0.0441 pounds per ton of green coffee beans roasted. This emission rate was used in the air dispersion modeling analysis performed to demonstrate that the Starbucks acrolein emissions does not cause or contribute to an exceedance of its short-term concentration (SGC) and annual guideline concentrations(AGC).

Starbucks shall conduct a stack test to verify the emission rate once during 10 years. The last stack test was conducted in October 2019.

Facility must submit a stack test protocol to the Department for approval at least 90 days prior to the testing. Facility must perform stack test based on an approved stack test protocol, and then submit to the Department the stack test report for approval, within 60 days of performing the test.

The owner or operator shall maintain all records emission for a minimum of five years and must be available to the Department upon request.

Parameter Monitored: ACROLEIN

Upper Permit Limit: 0.0441 pounds per ton

Reference Test Method: 40 CFR 63 Appendix A Method 320

Monitoring Frequency: ONCE EVERY TEN YEARS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-9: Compliance Demonstration
Effective between the dates of 12/28/2020 and 03/28/2027

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 1-9.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00P25 Emission Point: 00001
 Process: 001 Emission Source: A0001

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 1-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Total annual throughput of green coffee beans roasting is limited 518 tons per rolling 12-month period.

The amount of daily green coffee beans roasted shall be recorded, summed at the end of the month, and added to the prior 11 months of green coffee beans roasted to demonstrate compliance with the annual limit of 518 tons of green coffee beans roasted per rolling 12-month period.

Work Practice Type: PROCESS MATERIAL THRUPUT
 Process Material: BEANS
 Upper Permit Limit: 518 tons per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 45 days after the reporting period.
 The initial report is due 5/15/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 1-10: Compliance Demonstration
Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 1-10.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-00P25 Emission Point: 00001
 Process: 001 Emission Source: A0001

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 1-10.2:

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Formaldehyde emission rate shall be limited to 0.202 pounds per ton of green coffee beans roasted. This emission rate was used in the air dispersion modeling analysis performed to demonstrate that the Starbucks formaldehyde emissions does not cause or contribute to an exceedance of its short-term concentration (SGC) and annual guideline concentrations(AGC).

Starbucks shall conduct a stack test to verify the emission rate once during 10 years. The last stack test was conducted in October 2019.

Facility must submit a stack test protocol to the Department for approval at least 90 days prior to the testing. Facility must perform stack test based on an approved stack test protocol, and then submit to the Department the stack test report for approval, within 60 days of performing the test.

The owner or operator shall maintain all records on-site for a minimum of five years and must be available to the Department upon request.

Parameter Monitored: FORMALDEHYDE

Upper Permit Limit: 0.202 pounds per ton

Reference Test Method: 40 CFR 63 Appendix A Method 320

Monitoring Frequency: ONCE EVERY TEN YEARS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-11: Compliance Demonstration

Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement:6 NYCRR 212-2.3 (b)

Item 1-11.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0G120

Emission Point: 00002

Process: 002

Emission Source: A0002

Item 1-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Monitoring Description:

Roaster G120 green coffee beans roasting is limited to 546 lbs/hr, the maximum capacity achieved during the October 2019 stack test, which was used to determine acrolein and formaldehyde emission factors and minimum required afterburner operating temperature.

The facility shall maintain onsite records verifying the hourly roasting for a minimum period of five years.

Parameter Monitored: GREEN BEANS

Upper Permit Limit: 546 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 45 days after the reporting period.

The initial report is due 5/15/2021.

Subsequent reports are due every 12 calendar month(s).

Condition 1-12: Compliance Demonstration

Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 1-12.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0G120

Emission Point: 00002

Process: 002

Emission Source: A0002

Regulated Contaminant(s):

CAS No: 000050-00-0

FORMALDEHYDE

Item 1-12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Total annual throughput of green coffee beans roasting is limited to 1909 tons per rolling 12-month period.

The amount of daily green coffee beans roasted shall be recorded, summed at the end of the month, and added to the prior 11 months of green coffee beans roasted to demonstrate compliance with the annual limit of 1909 tons of green coffee beans roasted per rolling 12-month period.

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Work Practice Type: PROCESS MATERIAL THRUPUT
 Process Material: BEANS
 Upper Permit Limit: 1909 tons per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 45 days after the reporting period.
 The initial report is due 5/15/2021.
 Subsequent reports are due every 12 calendar month(s).

Condition 1-13: Compliance Demonstration
Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 1-13.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0G120	Emission Point: 00002
Process: 002	Emission Source: A0002

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 1-13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Formaldehyde emission rate shall be limited to 0.136 pounds per ton of green coffee beans roasted. This emission rate was used in the air dispersion modeling analysis performed to demonstrate that the Starbucks Formaldehyde emissions does not cause or contribute to an exceedance of its short-term concentration (SGC) and annual guideline concentrations(AGC).

Starbucks shall conduct a stack test to verify the emission rate once during 10 years. The last stack test was conducted in October 2019.

Facility must submit a stack test protocol to the Department for approval at least 90 days prior to the testing. Facility must perform stack test based on an approved stack test protocol, and then submit to the Department the stack test report for approval, within 60 days of performing the test.

The owner or operator shall maintain all records emission for a minimum of five years and must be available to the Department upon request

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Parameter Monitored: FORMALDEHYDE
Upper Permit Limit: 0.136 pounds per ton
Reference Test Method: 40 CFR 63 Appendix A Method 320
Monitoring Frequency: ONCE EVERY TEN YEARS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-14: Compliance Demonstration
Effective between the dates of 12/28/2020 and 03/28/2027

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 1-14.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-0G120 Emission Point: 00002
Process: 002 Emission Source: A0002

Regulated Contaminant(s):
CAS No: 000107-02-8 ACROLEIN

Item 1-14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Acrolein emission rate shall be limited to 0.0139 pounds per ton of green coffee beans roasted. This emission rate was used in the air dispersion modeling analysis performed to demonstrate that the Starbucks acrolein emissions does not cause or contribute to an exceedance of its short-term concentration (SGC) and annual guideline concentrations(AGC).

Starbucks shall conduct a stack test to verify the emission rate once during 10 years. The last stack test was conducted in October 2019.

Facility must submit a stack test protocol to the Department for approval at least 90 days prior to the testing. Facility must perform stack test based on an approved stack test protocol, and then submit to the Department the stack test report for approval, within 60 days of performing the test.

The owner or operator shall maintain all records emission for a minimum of five years and must be available to the Department upon request

Parameter Monitored: ACROLEIN
Upper Permit Limit: 0.0139 pounds per ton
Reference Test Method: 40 CFR 63 Appendix A Method 320

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807

Monitoring Frequency: ONCE EVERY TEN YEARS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Permit ID: 2-6205-01807/00001

Facility DEC ID: 2620501807