GEORGIA
DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Air Protection Branch
4244 International Parkway
Suite 120
Atlanta, Georgia 30354
404-363-7000

JAN 09 2019

Mr. D. Boone Brothers
EHS&S Manager
BD (Becton, Dickinson and Company)
8195 Industrial Boulevard
Covington, Georgia 30014

Re: SIP Application No. 26804, Dated October 29, 2018
Facility AIRS No. : 21100021

Dear Mr. Brothers:

Enclosed please find Air Quality Permit No. 3841-211-0021-S-04-0 for ownership change at BD (Becton, Dickinson and Company in Madison, Georgia.

Note that any future modifications that might affect potential emissions from your facility will require review and possible permitting through this office.

The following types of correspondence should be sent to the Division personnel indicated:

- Testing notices and test results: Dan McCain – Unit Coordinator, Stationary Source Compliance Program
- All other required notifications and reports: Derrick Williams – District Manager, Northeast District, 745 Gaines School Road, Athens, Georgia 30605

Thank you for your cooperation. If you have any questions or need more information, please contact me at (404) 362-2520 or via email at *Joe.Aisien@dnr.ga.gov.*

Sincerely,

Joe Aisien

Joe Aisien
Environmental Engineer
Stationary Source Permitting Program

Enclosure

cc: SSPP webmaster, Northeast District

PERMIT NO. 3841-211-0021-S-04-0
ISSUANCE DATE: JAN 9 2019

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Air Quality Permit

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Rules, Chapter 391-3-1, adopted pursuant to and in effect under that Act,

Facility Name:	**BD (Becton, Dickinson and Company)**
Facility Address:	**1211 Mary Magnan Boulevard** **Madison, Georgia 30650, Morgan County**
Mailing Address:	**8195 Industrial Boulevard** **Covington, Georgia 30014**
Facility AIRS Number:	**04-13-211-00021**

is issued a Permit for the following:

The operation of a commercial sterilization facility and a regenerative thermal oxidizer.
This Permit is issued for the purpose of establishing practically enforceable emission limitations such that the facility will not be considered a major source with respect to Title V of the Clean Air Act Amendments of 1990.

This Permit is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit.

This Permit may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. 26804 dated October 29, 2018; any other applications upon which this Permit is based; supporting data entered therein or attached thereto; or any subsequent submittals or supporting data; or for any alterations affecting the emissions from this source.

This Permit is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **7** pages.

Richard E. Dunn, Director
Environmental Protection Division

1. General Requirements

1.1 At all times, including periods of startup, shutdown, and malfunction, the Permittee shall maintain and operate this source, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Division which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection or surveillance of the source.

1.2 The Permittee shall not build, erect, install or use any article, machine, equipment or process the use of which conceals an emission which would otherwise constitute a violation of an applicable emission standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard that is based on the concentration of a pollutant in the gases discharged into the atmosphere.

1.3 The Permittee shall submit a Georgia Air Quality Permit application to the Division prior to the commencement of any modification, as defined in 391-3-1-.01(pp), which may result in air pollution and which is not exempt under 391-3-1-.03(6). Such application shall be submitted sufficiently in advance of any critical date involved to allow adequate time for review, discussion, or revision of plans, if necessary. The application shall include, but not be limited to, information describing the precise nature of the change, modifications to any emission control system, production capacity and pollutant emission rates of the plant before and after the change, and the anticipated completion date of the change.

1.4 Unless otherwise specified, all records required to be maintained by this Permit shall be recorded in a permanent form suitable for inspection and submission to the Division and shall be retained for at least five (5) years following the date of entry.

1.5 In cases where conditions of this Permit conflict with each other for any particular source or operation, the most stringent condition shall prevail.

2. Allowable Emissions

2.1 The Permittee shall comply with all applicable provisions of 40 CFR Part 63 Subpart O, "Ethylene Oxide Emission Standards from Sterilization Facilities" for the operation of the ethylene oxide sterilization equipment.
[40 CFR 63.360]

2.2 The Permittee shall comply with all applicable provisions of 40 CFR Part 63 Subpart A – "General Provisions" as specified in Table 1 of 40 CFR 63 Subpart O.
[40 CFR 63.360; 40 CFR 63 Subpart A]

2.3 The ethylene oxide emissions to the atmosphere from each sterilizer chamber vent (Emission Unit ID Nos. SV1, SV2, SV3, SV4, SV5, SV6, and SV7) shall be reduced by at least 99%.
[40 CFR 63.362(c) and 40 CFR 70 Avoidance for HAP]

2.4 The Permittee shall either reduce ethylene oxide emissions from each aeration room vent (Emission Unit ID Nos. A1A/B, A2A/B, A3A/B, A4A/B, A5A/B, A6A, and A7A/B) to 1 ppm by volume or less or by at least 99%.
[40 CFR 63.362(d) and 40 CFR 70 Avoidance for HAP]

2.5 The emission limitations of Condition Nos. 2.3. and 2.4 apply during sterilization operation. The emission limits do not apply during periods of malfunction.
[40 CFR 63.362(b)]

2.6 The Permittee shall comply with the emissions limitations of 40 CFR Part 63, Subpart O as follows:

a. All sterilization chamber vents with an initial startup date after December 6, 1998 shall comply immediately upon initial startup of the source.

b. All aeration room vents with an initial startup date on or after December 6, 2000, shall comply immediately upon initial startup of the source.

[40 CFR 63.360(g)]

3. Fugitive Emissions

3.1 The Permittee shall take all reasonable precautions with any operation, process, handling, transportation, or storage facilities to prevent fugitive emissions of air contaminants.

4. Process & Control Equipment

4.1 Routine maintenance shall be performed on all air pollution control equipment. Maintenance records shall be recorded in a permanent form suitable and available for inspection by the Division. The records shall be retained for at least five years following the date of such maintenance.

4.2 The Permittee shall operate the regenerative thermal oxidizer (Air Pollution Control device ID No. RTO1) at or above the minimum temperature established during the most recent performance test except during periods of startup, shutdown, or malfunction. The minimum temperature established shall be at least equal to or higher than the recommended minimum operating temperature provided by the manufacturer of the Regenerative Thermal Oxidizer (RTO1).
[40 CFR 63.363(b)(3), 40 CFR 63.363(f), and Toxic Guideline - 391-3-1-.02(2)(a)1]

5. Monitoring

5.1 In order to demonstrate compliance with Condition Nos. 2.2 or 2.3, the Permittee shall either measure and record the ethylene oxide concentration in accordance with 40 CFR 63.364(e) or continuously monitor and record the oxidation temperature using the temperature monitor(s) described in Condition No. 5.2. Monitoring is required only when the Regenerative Thermal Oxidizer (RTO1) is operated.
[40 CFR 63.364(c)]

5.2 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the oxidation temperature as determined from the average reading of the three combustion chamber temperature sensors on the Regenerative Thermal Oxidizer (RTO-1). The temperature monitor shall be accurate within ±5.6 degrees Celsius (± 10 degrees Fahrenheit). Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
[40 CFR 63.364(c)]

5.3 The Permittee shall verify the accuracy of the temperature monitor required by Condition No. 5.2 twice each calendar year with a reference temperature monitor (traceable to National Institute of Standards and Technology (NIST) standards or an independent temperature measurement device dedicated for this purpose). During accuracy checking, the probe of the reference device shall be at the same location as that of the temperature monitor being tested. As an alternative, the accuracy temperature monitor may be verified in a calibrated oven (traceable to NIST standards)
[40 CFR 63.364(c)(4)]5.4 The Permittee shall develop and implement a CMS quality control program (which includes a CMS performance evaluation) as specified in 40 CFR 63.8(d) and (e).

5.5 Any monitoring system installed by the Permittee shall be in continuous operation except during calibration checks, zero and span adjustments or periods of repair. Maintenance or repair shall be conducted in the most expedient manner to minimize the period during which the system is out of service.

5.6 The Permittee shall provide and maintain a spare parts inventory for any monitoring system installed. A list of parts to be kept in inventory shall be kept in a form suitable for inspection by the Division for no less than five years.

6. Performance Testing

6.1 The Permittee shall cause to be conducted a performance test at any specified emission point when so directed by the Division. The following provisions shall apply with regard to such tests:

a. All tests shall be conducted and data reduced in accordance with applicable procedures and methods specified in the Division's Procedures for Testing and Monitoring Sources of Air Pollutants.

b. All test results shall be submitted to the Division within sixty (60) days of the completion of testing.

c. The Permittee shall provide the Division thirty (30) days prior written notice of the date of any performance test(s) to afford the Division the opportunity to witness and/or audit the test, and shall provide with the notification a test plan in accordance with Division guidelines.

d. All monitoring systems and/or monitoring devices required by the Division shall be installed, calibrated and operational prior to conducting any performance test(s). For any performance test, the Permittee shall, using the monitoring systems and/or monitoring devices, acquire data during each performance test run. All monitoring system and/or monitoring device data acquired during the performance testing shall be submitted with the performance test results.

6.2 In accordance with 40 CFR 63.7(b) and 63.9(e), the Permittee shall notify the Division of intent to conduct a performance test at least 60 calendar days before the performance test is scheduled to begin. If the test must be rescheduled due to unforeseeable circumstances beyond his control, the Permittee shall notify the Division within five (5) days prior to the scheduled date of the test and shall specify the date when the test is rescheduled.

6.3 In accordance with 40 CFR 63.7(c)(4), the Permittee shall analyze performance audit samples during each performance test.

6.4 The Permittee shall provide performance testing facilities as specified in 40 CFR 63.7(d). Performance tests shall be conducted under conditions based on representative performance of the source and as otherwise specified in 40 CFR 63.7(e).

7. Notification, Reporting and Record Keeping Requirements

7.1 The Permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility, any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative. The Permittee shall retain these records for a period of at least five (5) years after the date of any such startup, shutdown, or malfunction.

7.2 The Permittee shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this Permit. The information shall be recorded in a permanent form suitable and available for inspection and shall be retained for at least five (5) years following the date of such measurements maintenance, reports, and records.

7.3 In accordance with 40 CFR 63.7(c)(2), the Permittee shall submit a site-specific test plan along with the Notification of Intent to conduct a performance test.

7.4 In accordance with 40 CFR 63.7(g), 63.9(h), 63.10(d), and 63.366(a), the Permittee shall submit the results of a performance test and notification of compliance status within 60 days following completion of the test.

7.5 In accordance with 40 CFR 63.10, 63.366(a), and Table 1 of 40 CFR 63 Subpart O, the Permittee shall submit the following reports:

a. Deviation reports; and

b. Continuous Monitoring System performance and summary reports

Contents and submittal dates for Deviation and Continuous Monitoring System Performance Reports shall be as specified in 40 CFR 63.366(a)(3).

7.6 The Permittee shall maintain files of all information required by this permit or by 40 CFR 63 in a form suitable and available for expeditious inspection and review for at least five years following date of entry in accordance with 40 CFR 63.10(b)(1).

7.7 The Permittee shall maintain General records and Continuous Monitoring System records as specified by 40 CFR 63.10(b)(2) and (c), respectively, and Table 1 of 40 CFR 63 Subpart O.

7.8 The data acquisition system for the temperature monitors required by Condition No. 5.2 shall compute and record a daily average oxidation temperature from the 15-minute or shorter period temperature values. Strip chart data shall be converted to record a daily average oxidation temperature for each day any instantaneous temperature recording falls below the minimum temperature.
[40 CFR 63.364(c)]

7.9 The Permittee shall submit a written report containing any excess emissions, exceedances, and/or excursions as described in this permit and any monitor malfunctions for each semiannual period ending June 30th and December 31st of each year. All reports shall be postmarked by the 30th day following the end of each reporting period, July 30th and January 30th. In the event that there have not been any excess emissions, exceedances, excursions, or malfunctions during a reporting period, the report should so state. Otherwise, the contents of each report shall be as specified by the Division's Procedures for Testing and Monitoring Sources of Air Pollutants and shall contain the following:
[391-3-1-.02(6)(b)1, 40 CFR 63.10(e)]

a. A summary report of excess emissions, exceedances and excursions, and monitor downtime, in accordance with Section 1.5(c) and (d) of the above referenced document, including any failure to follow required work practice procedures.

b. Total process operating time during each reporting period.

c. The magnitude of all excess emissions, exceedances and excursions computed in accordance with the applicable definitions as determined by the Director, and any conversion factors used, and the date and time of the commencement and completion of each time period of occurrence.

d. Specific identification of each period of such excess emissions, exceedances, and excursions that occur during startups, shutdowns, or malfunctions of the affected facility. Include the nature and cause of any malfunction (if known), the corrective action taken or preventive measures adopted.

e. The date and time identifying each period during which any required monitoring system or device was inoperative (including periods of malfunction) except for zero and span checks, and the nature of the repairs, adjustments, or replacement. When the monitoring system or device has not been inoperative, repaired, or adjusted, such information shall be stated in the report.

f. Certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.

7.10 Operating parameter deviations are defined as follows:

Any 24-hour average of the oxidation temperature for the Regenerative Thermal Oxidizer (RTO1) that is below the temperature specified in Condition No. 4.2.

8. Special Conditions

8.1 At any time that the Division determines that additional control of emissions from the facility may reasonably be needed to provide for the continued protection of public health, safety and welfare, the Division reserves the right to amend the provisions of this Permit pursuant to the Division's authority as established in the Georgia Air Quality Act and the rules adopted pursuant to that Act.

8.2 The Permittee shall calculate and pay an annual Permit fee to the Division. The amount of the fee shall be determined each year in accordance with the "Procedures for Calculating Air Permit Fees."

8.3 Georgia Air Quality Permit No. 3841-211-0021-S-03-0, is hereby revoked in its entirety.