State of Georgia Department of Natural Resources Environmental Protection Division Air Protection Branch



Stationary Source Permitting Program 4244 International Parkway, Suite 120 Atlanta, Georgia 30354 404/363-7000 Fax: 404/363-7100

Pax: 404/363-7
Date Received: SEP 2 5 2019 EPD Use Only Air Profescion Application No. 27244
FORM 1.00: GENERAL INFORMATION
Facility Information Facility Name: Sterilization Services of Georgia
AIRS No. (if known): 04-13- 121 - 00010
Facility Location: Street: 6005 Boat Rock Boulevard
City: Atlanta Georgia Zip: 30336 County: Fulton
Is this facility a "small business" as defined in the instructions? Yes: ⊠ No: □
2. Facility Coordinates
Latitude: 33° 43' 33" NORTH Longitude: 84° 35' 02" WEST
UTM Coordinates: EAST NORTH ZONE
3. Facility Owner
Name of Owner:
Owner Address Street:
City: State: Zip:
4. Permitting Contact and Mailing Address
Contact Person: Eric Welch Title: Plant Manager
Telephone No.: 404-344-8423 Ext. Fax No.: 404-344-8665
Email Address: ewelch@sterilization-services.com
Mailing Address: Same as: Facility Location: ☑ Owner Address: ☐ Other: ☐ Other: ☐
City: State: Zip:
5. Authorized Official
Name: Timothy David Connor Title: General Manager
Address of Official Street: 5635 Eastport Boulevard
City: Richmond State: VA Zip: 23231
This application is submitted in accordance with the provisions of the Georgia Rules for Air Quality Control and, to the best of my knowledge, is complete and correct.
Signature: Date: September 27, 2019

Email Address: Street:	Existing Facility (initial or modification application) Permit to Construct Permit to Construct Date of Original Submittal: Change of Location Permit to Modify Existing Equipment: Affected Permit No.: 3841-121-0010-s-02-0 & 3841-121-0010-s-02-1 7. Permitting Exemption Activities (for permitted facilities only): Have any exempt modifications based on emission level per Georgia Rule 391-3-1-,03(6)(i)(3) been performed at the facility that have not been previously incorporated in a permit? No Yes, please fill out the SIP Exemption Attachment (See Instructions for the attachment download) 8. Has assistance been provided to you for any part of this application? No Yes, SBAP Yes, a consultant has been employed or will be employed. If yes, please provide the following information: Name of Consulting Company: Name of Consulting Company: Name of Contact: Telephone No: Email Address: Mailing Address: Street: City: State: Zip: Describe the Consultant's Involvement: 9. Submitted Application Forms: Select only the necessary forms for the facility application that will be submitted. No. of Forms Form 2.00 Emission Unit List 2.01 Boilers and Fuel Burning Equipment 2.02 Storage Tank Physical Data 2.03 Printing Operations 2.04 Surface Coating Operations 2.05 Waste incinerators (selidifluid waste destruction) 3.00 Air Pollution Control Devices (APCD) 3.01 Scrubbers 3.02 Baghouses & Other Filter Collectors 3.03 Electrostatic Precipitators 4.00 Emissions Data 5.00 Monitoring Information 5.00 Emissions Data 5.00 Emission Sources 5.00 Monitoring Information 5.00 Monitoring Info	6.		or Application: (Check all that apply)			
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11. If confidential information is being "Procedures for Requesting that	g submitted in this a Submitted Informati	application, were t	he guidelines follow Confidential"?	ed in the
☐ No ☐ Yes				
40 Nov. Facility Fundacions Comment				
12. New Facility Emissions Summary		New	Facility	
Criteria Pollutant	Potentia		Actua	il (tpy)
Carbon monoxide (CO)	*			
Nitrogen oxides (NOx)				
Particulate Matter (PM) (filterable only)				
PM <10 microns (PM10)				
PM <2.5 microns (PM2.5)				
Sulfur dioxide (SO ₂)				
Volatile Organic Compounds (VOC)				
Greenhouse Gases (GHGs) (in CO2e)				
Total Hazardous Air Pollutants (HAPs)				
Individual HAPs Listed Below:				

13. Existing Facility Emissions Summ	nary			
Criteria Pollutant	Current		After Mod	
	Potential (tpy)	Actual (tpy)	Potential (tpy)	Actual (tpy)
Carbon monoxide (CO)				
Nitrogen oxides (NOx)				**************************************
Particulate Matter (PM) (filterable only)			A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	
PM <10 microns (PM10)				
PM <2.5 microns (PM2.5)				
Sulfur dioxide (SO ₂)			•	
Volatile Organic Compounds (VOC)				
Greenhouse Gases (GHGs) (in CO2e)				
Total Hazardous Air Pollutants (HAPs)				
Individual HAPs Listed Below:				
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14.	14. 4-Digit Facility Identification Code: SIC Code: 3559 SIC Description: Special Industry Machinery, Not Elsewhere Classified							
N	VAICS Code: 5	1.0	AICS Description: F			TO CIGOTICA		
•		,01010	THOO BOSONPROIT.	ackaging and Labe	ang dervices			
15.	15. Description of general production process and operation for which a permit is being requested. If necessary, attach additional sheets to give an adequate description. Include layout drawings, as necessary, to describe each process. References should be made to source codes used in the application.							
	Gas Sterilization Facility using Ethylene Oxide Products to be sterilized are placed in vacuum chambers. The air in the chamber is then evacuated. Ethylene Oxide (EO) is introduced into the chamber as the sterilant to surround and penetrate the product being sterilized. When the sterilization process is completed the used EO is evacuated from the chamber to a scrubber. The product is then removed from the chamber and placed in aeration rooms for further outgassing of EO. When the product is removed from the chamber a back vent removes the remaining, very small amount of EO which previously had been vented to the atmosphere. The purpose of this permit application is to add pollution abatement (dry bed reactors) to the chamber back vents. See Attachment A - Ethylene Oxide Gas Sterilization Process Description							
16.	Attachment A -		as Sterilization Proces		PALALA LA L			
	Attachment B -	Process Block Dia	gram					
	Attachment D -	TANGERO AND THE PROPERTY OF TH	**************************************					
	Attachment E -	A STATE OF THE STA	4-C1-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4		**************************************	OSOMINATIVAMENTE SE CONTRACTOR DE LA CON		
	Attachment F -							
	, addoninont i	Sin well-to-be recommended in the second of						
17.	17. Additional Information: Unless previously submitted, include the following two items: Plot plan/map of facility location or date of previous submittal: Flow Diagram or date of previous submittal:							
	8. Other Environmental Permitting Needs: Will this facility/modification trigger the need for environmental permits/approvals (other than air) such as Hazardous Waste Generation, Solid Waste Handling, Water withdrawal, water discharge, SWPPP, mining, landfill, etc.? No Tyes, please list below:							

	19. List requested permit limits including synthetic minor (SM) limits.
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	20. Effective March 1, 2019, permit application fees will be assessed. The fee amount varies based on type of permit application. Application acknowledgement emails will be sent to the current registered fee contact in the GECO system. If fee contacts have changed, please list that below:
	Fee Contact name:
	Fee Contact email address:

Fee invoices will be created through the GECO system shortly after the application is received. It is the applicant's responsibility to access the facility GECO account, generate the fee invoice, and submit payment within 10 days after notification.

Page 5 of 5

Fee Contact phone number:

Facility Name: Sterilization Services of Georgia

Date of Application: September 27, 2019

FORM 2.00 - EMISSION UNIT LIST

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Unit ID	Name	Manufacturer and Model Number	Description
DB1	Dry Scrubber	Advanced Air Technologies DR490A Safe-Cell II	Dry bed reactor to eliminate Ethylene Oxide
DB2	Dry Scrubber	Advanced Air Technologies DR490A Safe-Cell II	Dry bed reactor to eliminate Ethylene Oxide
DB3	Dry Scrubber	Advanced Air Technologies DR490A Safe-Cell II	Dry bed reactor to eliminate Ethylene Oxide
DB4	Dry Scrubber	Advanced Air Technologies DR490A Safe-Cell II	Dry bed reactor to eliminate Ethylene Oxide

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Facility Name:

Sterilization Services of Georgia

Date of Application: September 27, 2019

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13.00 - AIR POLLUTION CONTROL DEVICES -	
Form 3.00 – AIR POLLUTION CONTROL DEVICES - PART A: GENERAL EQUIPMENT INFORMATION	
	PART A: GENERAL EQUIPMENT INFORMATION

Facility Name:

Sterilization Services of Georgia

Form 3.00 - AIR POLLUTION CONTROL DEVICES - PART B: EMISSION INFORMATION

Date of Application: September 27, 2019

Exit Stream From APCD Pressure Drop	Method of Across Unit Determination (Inches of water)	t.b.d. t.b.d.
40 で IIO : IIIO IIO IV	lb/hr Determinatio	t.b.d. t.b.d.
**************************************	V	t.b.d.
Inlet Stream To APCD	Method of Determination	t.b.d.
Inlet Stre	lb/hr	tb.d.
rercent control Efficiency	n Actual	t.b.d.
		66
Pollutants Controlled		Ethylene Oxide
APCD		CH1-CH3 E

Attachment A

Ethylene Oxide Gas Sterilization Process Description

The gas sterilization process introduces Ethylene Oxide (EtO) gas, under vacuum, into a sealed chamber that contains packaged products to be sterilized. The products are typically pre-humidified, generally at elevated temperatures, prior to the introduction of EtO into the evacuated chamber. The products to be sterilized are typically enclosed in packaging and are exposed to the EtO for controlled periods of time that are known to destroy any biological contaminants that may have become part of the product or product packaging. A graphical depiction indicating the flow of EtO in a typical gas sterilization process is shown below in Figure 1. Arrows indicate the flow or movement of EtO through the process. The numbers refer to the descriptive content on the following pages.

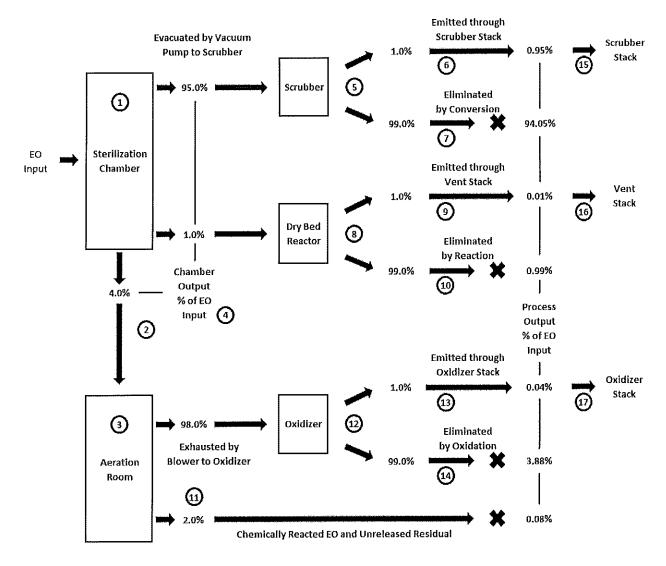


Figure 1 -Ethylene Oxide Gas Sterilization Process

EtO Sterilization

- Product to be sterilized is loaded into the sterilization chamber. The chamber is evacuated and EtO is introduced into the chamber. Some of the EtO is absorbed by the product or packaging. Most of the EtO is continuously recirculated in the chamber open space. By the end of the sterilization process most of the EtO is evacuated from the chamber.
- 2. After the sterilization process is completed, product is removed from the sterilization chamber and transported to aeration rooms.
- 3. In the aeration room, air is continuously recirculated around the product as it continues to outgas absorbed EtO.
- 4. Studies and experience show that typically no more than 4% of the EtO used is carried with the sterilized product into the aeration room. Typically, at least 95% of the EtO used is evacuated from the chamber to a scrubber during the sterilization process. The rest of the EtO used, typically no more than 1%, remains in the chamber and is vented to atmosphere through a dry bed reactor.

EtO Scrubbing

- 5. Ethylene Oxide gas that is evacuated from the chamber is sent to a liquid scrubber. The scrubber mixes the EtO with an acid/water solution. This converts EtO gas to liquid Ethylene Glycol. The scrubbing process is designed to be at least 99% efficient in converting the EtO gas to Ethylene Glycol.
- 6. No more than 1% of the EtO gas processed by the scrubber is emitted to the atmosphere through the scrubber stack.
- 7. At least 99% of the EtO gas processed by the scrubber is eliminated through conversion to Ethylene Glycol.

EtO Ventilation

- 8. The relatively small amount of EtO left in the chamber after sterilization, already stated as typically not more than 1%, is sent to a dry bed reactor.
- 9. No more than 1% of the EtO processed by the dry bed reactor is emitted to the atmosphere through the vent stack.
- 10. At least 99% of the EtO gas processed by the dry bed reactor is eliminated through reaction with reactant converting the gas to a disposable polymer.

EtO Oxidation

11. Product outgassing of EtO continues in the aeration room. Air is continuously recirculated around the sterilized product. A portion of the recirculating air containing outgassed EtO is continuously removed from the aeration room by exhaust blowers. Studies and experience suggest that about 98% of the residual EtO carried in the product and packaging is released during the aeration process and sent to a thermal oxidizer. Typically, this results in less than 2% remains in the sterilized product as chemically reacted or unreleased residual EtO.

Thermal Oxidation

- 12. Ethylene oxide gas that is exhausted from the aeration room is sent to a thermal oxidizer. The thermal oxidizer is designed to be at least 99% efficient in eliminating EtO gas through combustion.
- 13. No more than 1% of the EtO gas processed by the oxidizer is emitted to the atmosphere through the oxidizer stack.
- 14. At least 99% of the EtO gas processed by the oxidizer is eliminated through the oxidation process.

EtO Emissions

- 15. Typically, about 0.95% of the EtO used by the process is emitted through the Scrubber Stack. This is calculated as no more than 1% (after scrubbing) of 95% (after sterilizing) of the EtO used in the sterilization process.
- 16. Typically, about 0.01% of the EtO used by the process is emitted through the Vent Stack. This is calculated as no more than 1% (after reaction) of 1% (post sterilization) of the EtO gas used in the sterilizing process.
- 17. Typically, about 0.04% of the EtO used by the process is emitted through the Oxidizer Stack. This is calculated as no more than 1% (after oxidizing) of 98% (after aeration) of 4% (after sterilization) of the EtO used in the sterilization process.

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Attachment B Process Block Diagram

