



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

MEMORANDUM:

TO: Stephen Damaske
THROUGH: Daniel McCain
FROM: Ray Shen
SUBJECT: SOURCE TEST REPORT REVIEW

The following test has been reviewed and was conducted in an acceptable fashion for the purpose intended.

COMPANY NAME	Sterilization Services of Georgia					
COMPANY LOCATION	Atlanta, GA					
SOURCE TESTED	Dry Bed Scrubber EP1					
POLLUTANT DETERMINED	Ethylene Oxide					
REPORT REVIEWED BY	Ray Shen					
TEST WITNESSED BY	Ray Shen, Marie Miller					
DATE(S) OF TEST	March 11, 2020 to March 12, 2020					
DATE RECEIVED BY APB	May 26, 2020					
MAXIMUM EXPECTED OPERATING CAPACITY	34 UNITS					
OPERATING CAPACITY	N/AV UNITS					
ALLOWABLE EMISSION RATE	99.0 % DRE					
APPLICABLE REGULATION	Permit 3841-121-0010-S-03-0. 40 CFR 63.362					
CONTROL EQUIPMENT AND MONITORING DATA	See Appendix K of test report.					
	TEST RUN #	1	2	4	AVERAGE	
GAS TEMPERATURE (°F)	Inlet	130	123	130		
	Outlet	75.9	73.0	73.7		
GAS MOISTURE (%)	Inlet	2.32	1.56	1.88		
	Outlet	1.55	1.70	1.68		
GAS FLOW RATE (ACFM)	Inlet	1047	1127	1215		
	Outlet	1150	1270	1674		
GAS FLOW RATE (DSCFM)	Inlet	949	1040	1127		
	Outlet	1086	1206	1586		
POLLUTANT CONCENTRATION (PPM)	Inlet	68.9	79.2	74.7		74.3
	Outlet	<0.045	<0.045	0.060		0.050
EMISSION RATE (LB/HR)	Inlet	0.596	0.690	0.835	0.707	
	Outlet	<0.00033	<0.00037	0.00065	0.00045	
DESTRUCTION EFFICIENCY (%)	99.936					



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OTHER INFORMATION

An electrical outage occurred during Run 3, so Run 3 was voided.

Results for Runs 1 and 2 on the outlet were below the detection limit. The detection limit was used to calculate the pollutant concentration and emission rate values for Runs 1 and 2 on the outlet.

All three Sterilization Chambers have a total Max. Capacity of 34 pallets (units). Sterilization Chamber #1 and #3 are 1,537.5 cu. ft. (13 pallets) in vol. Sterilization chamber #2 is 1,012.7 cu. ft. (8 pallets) in vol. After a vacuum cycle, a chamber door is opened slightly, a Back Vent Fan (BV) sucks building air thru sterilization chamber then exhaust trapped EO gas in product and packaging.