



Richard E. Dunn, Director

Air Protection Branch

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MEMORANDUM

TO: Sean Taylor
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 ADDRESS		Atlanta, GA			
SOURCE TESTED		Backvents (AAT Scrubber)			
POLLUTANT DETERMINED		Ethylene Oxide			
REPORT REVIEWED BY		Ray Shen			
TEST WITNESSED BY		N/A			
DATE(S) OF TEST		April 21, 2022			
DATE RECEIVED BY APB		June 2, 2022			
APPLICABLE REQUIREMENT		Permit 3841-121-0010-S-03-0, condition 2.6. 40 CFR 63.362			
MAXIMUM EXPECTED OPERATING CAPACITY		34 UNITS			
OPERATING CAPACITY					
ALLOWABLE EMISSION RATE(S)		99.0 % DRE			
CONTROL EQUIPMENT AND MONITORING DATA		Pressure drop (differential pressure) was not in test report.			
TEST RUN #		1	2	3	AVERAGE
GAS TEMPERATURE (°F)	INLET	94.7	91.0	108	
	OUTLET	69.3	81.9	82.8	
GAS MOISTURE (%)	INLET	1.86	1.51	1.93	
	OUTLET	1.16	1.63	1.52	
GAS FLOW RATE (ACFM)	INLET	956	1169	1408	
	OUTLET	1633	1636	1620	
GAS FLOW RATE (DSCFM)	INLET	881	1088	1266	
	OUTLET	1583	1542	1526	
POLLUTANT CONCENTRATION (PPM)	INLET	241	7.02	290	179.
	OUTLET	0.0145	0.0155	0.0261	0.0187
EMISSION RATE (LB/HR)	INLET	1.45	0.0524	2.52	1.3408
	OUTLET	0.000157	0.000164	0.000273	0.000198
DESTRUCTION EFFICIENCY (%)		99.89			
OTHER INFORMATION		<p>Outlet emission results for all three runs were below the detection limit. The detection limit was used to calculate the pollutant concentration and emission rate values for all runs on the outlet.</p> <p>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.</p>			

cc: Sean Taylor
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