



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

Richard E. Dunn, Director

Air Protection Branch

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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	Catalytic Oxidizer EP5
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Ray Shen
TEST WITNESSED BY	Marie Miller, Ray Shen
DATE(S) OF TEST	March 12, 2020
DATE RECEIVED BY APB	May 26, 2020
MAXIMUM EXPECTED OPERATING CAPACITY	220 UNITS
OPERATING CAPACITY	58 UNITS
ALLOWABLE EMISSION RATE	99.0 % DRE
APPLICABLE REGULATION	Permit 3841-121-0010-S-03-0; Condition 2.5 and 40 CFR 63.362
CONTROL EQUIPMENT AND MONITORING DATA	See Appendix K of test report.

TEST RUN #		1	2	3	AVERAGE	
GAS TEMPERATURE (°F)	Inlet	113.6	108.1	115.3		
	Outlet	206.9	212.5	202.6		
GAS MOISTURE (%)	Inlet	1.99	2.06	1.90		
	Outlet	2.13	2.15	2.03		
GAS FLOW RATE (ACFM)	Inlet	5325	5900	4754		
	Outlet	6191	6944	5430		
GAS FLOW RATE (DSCFM)	Inlet	4701	5261	4189		
	Outlet	4701	5223	4156		
POLLUTANT CONCENTRATION (PPM)	Inlet	31.8	26.2	28.9		28.9
	Outlet	0.792	0.653	0.730		0.725
EMISSION RATE (LB/HR)	Inlet	1.02	0.937	0.830	0.930	
	Outlet	0.0254	0.0231	0.0208	0.0231	

DESTRUCTION EFFICIENCY (%)	97.516
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OTHER INFORMATION

Catalyst Oxidizer did not meet the required 99.0 %DRE. Catalysts was 4 years old. Catalyst's life is 5 years normally.

Three Aeration Rooms (AR) were connected to this oxidizer. The max. expected operating cap. is 220 pallets.