



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: Joshua Pittman
SUBJECT: SOURCE TEST REPORT REVIEW

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

COMPANY NAME	Sterigenics U.S. LLC
COMPANY LOCATION	Atlanta, GA
SOURCE TESTED	Total System (Ceilcote Scrubber, AAT Scrubber, Vacuum Pump)
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Joshua Pittman
TEST WITNESSED BY	Joshua Pittman
DATE(S) OF TEST	June 25, 2020
DATE RECEIVED BY APB	July 27, 2020
APPLICABLE REGULATION	Permit amendment 7389-067-0093-S-05-3, conditions 2.3 and 2.4
MAXIMUM EXPECTED OPERATING CAPACITY	N/A
OPERATING CAPACITY	N/A
ALLOWABLE EMISSION RATE	99 % DRE
CONTROL EQUIPMENT AND MONITORING DATA	Ceilcote Scrubber - Temperature: 186 deg F, pH: 0.8, Glycol: 36.0% AAT Scrubber w/Dry Bed Adsorber - Temperature: 123 deg F, pH: 0.8, Glycol: 33.4%



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Ceilcote inlet value is based on the amount of ethylene oxide charged to the sterilization chambers by the facility for the test.

System	Run 1	Run 2	Run 3
Ceilcote inlet	37.7 lbs	186.4 lbs	169.0 lbs
Ceilcote outlet	<0.123 ppm	< 0.114 ppm	<0.197 ppm
Ceilcote outlet	<0.000611 lbs	<0.000560 lbs	<0.00137 lbs
Ceilcote removal	99.9984%	99.9997%	99.9992%
Aeration/backvent	0.0777 lbs	0.0689 lbs	0.0889 lbs
AAT input	<0.0783 lbs	<0.0695 lbs	<0.0902 lbs
AAT outlet	29.8 ppb	12.1 ppb	5.6 ppb
AAT outlet	0.00128 lbs	0.000497 lbs	0.000326 lbs
AAT removal	98.36%	99.28%	99.64%
Total system input	37.80 lbs	186.5 lbs	169.1 lbs
Total system outlet	29.8 ppb	12.1 ppb	<5.6 ppb
Total system outlet	0.00128 lbs	0.000497 lbs	<0.000326 lbs
Total system removal	99.9966%	99.9997%	99.9998%

Average Ceilcote removal efficiency: 99.9991%

Average AAT removal efficiency: 99.1%

Average total system removal efficiency: 99.9987%

Some measurements were below the minimum detectable concentration (MDC).
For those data points, the MDC was used in calculating the averages.