



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.