



**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.

<b>COMPANY NAME</b>	Sterilization Services of Georgia
<b>COMPANY ADDRESS</b>	Atlanta, GA
<b>SOURCE TESTED</b>	Building - Permanent Total Enclosure (PTE)
<b>POLLUTANT DETERMINED</b>	Ethylene Oxide
<b>REPORT REVIEWED BY</b>	Ray Shen
<b>TEST WITNESSED BY</b>	Bob Scott, Ray Shen
<b>DATE(S) OF TEST</b>	April 21, 2022
<b>DATE RECEIVED BY APB</b>	June 2, 2022
<b>APPLICABLE REQUIREMENT</b>	Permit 3841-121-0010-S-03-0
<b>MAXIMUM EXPECTED OPERATING CAPACITY</b>	N/A
<b>OPERATING CAPACITY</b>	N/A
<b>ALLOWABLE EMISSION RATE(S)</b>	N/A
<b>CONTROL EQUIPMENT AND MONITORING DATA</b>	Building has (2) fugitive emission control equipment (FE1, FE2). Both are AAT dry bed scrubbers. FE1 is rated at 8000 ACFM, it is located in Zone 1. FE2 is rated at 16000 ACFM, it is in Zone 3.
<b>MEMORANDUM</b>	<p>The building qualifies as a Permanent Total Enclosure (PTE). This PTE meets the requirements of EPA Method 204 with 100% capture efficiency, with captured EtO fugitive emissions being routed through control equipment FE1 and FE2. The following test results provide a synopsis of the requirement:</p> <ol style="list-style-type: none"> <li>1) Total area of all NDOs (Natural Draft Openings) was 27.42sq. ft. Overall NE (Negative Enclosure) surface area was 113,851 sq. ft. Ratio of total NDOs area to overall NE surface area was 0.024%. The max. allowable ratio is &lt;5%.</li> <li>2) Air flow through the NDOs was directed into the enclosure as confirmed using a smoke/vapor device.</li> <li>3) The pressure differential across the enclosure was negative (-0.0109" H2O).</li> <li>4) All access doors not counted as NDOs remain closed during facility operations.</li> <li>5) All EtO emissions must be captured and contained for discharge through control equipment.</li> </ol> <p>Zone 2 has no control equipment. There is a giant opening for forklift traffic between Zone 2 and Zone3. FE2 (located in Zone 3) captured and reduced EtO fugitive emission from Zone 2 and Zone 3.</p>

cc: Sean Taylor  
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