



**Richard E. Dunn, Director**

**Air Protection Branch**

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**MEMORANDUM**

**TO:** William Fleming  
**THROUGH:** Daniel McCain  
**FROM:** Marie Miller  
**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>	Sterigenics U.S. LLC
<b>COMPANY ADDRESS</b>	Atlanta, GA
<b>SOURCE TESTED</b>	Indoor Air Control System Testing
<b>POLLUTANT DETERMINED</b>	Ethylene Oxide
<b>REPORT REVIEWED BY</b>	Marie Miller
<b>TEST WITNESSED BY</b>	N/A
<b>DATE(S) OF TEST</b>	July 1, 2022
<b>DATE RECEIVED BY APB</b>	August 29, 2022
<b>APPLICABLE REQUIREMENT</b>	Permit No. 7389-067-0093-S-06-0 Condition 6.4
<b>MEMORANDUM</b>	<p>Per Permit No. 7389-067-0093-S-06-0 Condition 6.4 , the Permittee shall conduct ethylene oxide performance testing of the Indoor Air Dry Bed Adsorber System (EC4).</p> <p>The reduction efficiency of the Indoor Air Dry Bed Adsorber System (EC4), which controls emissions from the Indoor Air (Chamber Rooms, Work Aisles, Processed Product Storage, Shipping Areas) was determined in accordance with EPA ALT-142 and the following equation: <math>RE_{ia} = [ ( Ei1 + Ei2 ) - Eis ] / ( Ei1 + Ei2 )</math></p> <p>Average EtO Concentration at the Indoor Air Stack = &lt; 0.0225 ppm<sub>dv</sub>                      Average EtO Emissions at the Indoor Air Inlet 1 (<math>Ei1</math>) = 0.107 lb/hr                      Average EtO Emissions at the Indoor Air Inlet 2 (<math>Ei2</math>) = 2.58E-2 lb/hr                      Average EtO Emissions at the Indoor Air Stack (<math>Eis</math>) = &lt; 2.32E-3 lb/hr                      Average EtO Control Efficiency (<math>RE_{ia}</math>) = 98.24%</p>

cc: William Fleming  
AIRS Number: 067-00093

Reference Number: 202200837  
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