



GEORGIA

DEPARTMENT OF NATURAL RESOURCES

ENVIRONMENTAL PROTECTION DIVISION

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Air Protection Branch

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MEMORANDUM:

TO: Steve Allison
 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	Stepan Company
COMPANY LOCATION	Winder, GA
SOURCE TESTED	EtO Scrubber (SCR-R01)
POLLUTANT DETERMINED	Ethylene Oxide
REPORT REVIEWED BY	Joshua Pittman
TEST WITNESSED BY	Joshua Pittman
DATE(S) OF TEST	March 13, 2020
DATE RECEIVED BY APB	April 20, 2020
APPLICABLE REGULATION	Permit 2843-013-0001-S-02-0, condition 2.11.b

MEMORANDUM

Stepan performed removal efficiency testing on the EtO scrubber on March 13, 2020. Removal efficiency was calculated based on concentration, since it is assumed the flow (corrected to standard conditions) at the inlet and outlet of the scrubber is equal. Three test runs were performed during storage tank depressurization, with a fourth performed during reactor depressurization. The permit requires a removal efficiency of at least 95 during tank depressurization.

Run	Test condition	Inlet (ppm)	Outlet (ppm)	Removal (%)
1	Tank	23495	15.74	99.93
2	Tank	39937	22.47	99.94
3	Tank	36623	16.79	99.95
Avg		33351.59	18.33	99.94
4	Reactor	2672	0.54	99.98