Ethylene Oxide Usage and Emissions

Sterigenics	Location
Emission Controls:	
Sterilizer	Ceilcote Scrubber
Aerations Rooms	Catalytic Oxidizer
Back Vents	Catalytic Oxidizer

Usage and Emissions:	2019	2018	2017	2016	2015
EtO Usage (lbs)	1,092,940	1,086,463	999,804	1,015,733	1,008,672
Sterilizer Control Effic. (%)	99.95%	99.95%	99.95%	99.95%	99.95%
Aer. Room Control Effic (%)	99.97%	99.99%	99.98%	99.98%	99.98%
Backvent Effic. (%)	99.97%	99.99%	99.97%	99.95%	99.98%
EO Sterilizer Emissions (lbs)	478	475	437	444	441
EO Aeration Emissions (lbs)	15	4	6	10	9
EO Backvent Emissions (lbs)	3	1	3	5	2
EO Fugitive Emissions (lbs)	546.47	543	500	508	504
EO Accidental Releases (lbs):	5.6	2	0	0	33

TOTAL Stack EO Emissions (lbs)	**495.74**	**479.91**	**446.59**	**458.80**	**452.09**
TOTAL Fugitive EO Emissions (lbs)	552.07	545.63	499.90	507.87	537.34

EO Sterilizer Emissions (#) = 0.95 * EO Usage * (1- %control efficiency)

EO Aeration Emissions (#) = 0.04 * EO Usage * (1- %control efficiency)

EO Backvent Emissions (#) = 0.01 * EO Usage * (1- %control efficiency)

EO Fugitive Emissions (#) = 0.0005 * EO Usage