Richard E. Dunn, Director

Air Protection Branch

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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	BD (Becton, Dickinson and Company)	
COMPANY LOCATION	Madison, GA	
SOURCE TESTED	Dry Bed System 2 (SYS2)	
POLLUTANT DETERMINED	Ethylene Oxide	
REPORT REVIEWED BY	Ray Shen	
TEST WITNESSED BY	Ray Shen, Marcus Cureton	
DATE(S) OF TEST June 30, 2020		
DATE RECEIVED BY APB	September 21, 2020	
APPLICABLE REGULATION EPD Consent Order dated October 28, 2019		

MEMORANDUM System Two (SYS2) captures potential fugitive emissions from the

Work-In-Progress (WIP) area of the facility where product is stored after sterilization and prior to shipment. SYS2 consists of (32) Dry Beds. Pressure drop across each DB was approximately 3.6 inches H2O during testing.

Samples were collected into (7) Summa Canisters in accordance with EPA Method TO-15 (GC/MS in Selective Ion Monitoring (SIM) Mode) at inlet and outlet of an AAT Dry Bed System. Sample duration was (4) hours. Analysis was performed by Eurofins, an independent lab. Results were reported in ug/M3 (ppb).

Work In Process (WIP) area has a max. pallet storage capability of 864 Pallets. 822 pallets were stored during the test.

Ethylene Oxide (EtO)

Concentration (micrograms/m^3)		B) Flow (dscfm)	Mass rate (lb./hr.)
Inlet 1	400	11,460.5	0.01717
Inlet 2	2 520	11,208.5	0.02183
Inlet 3	980	9,741.9	0.03576
Inlet 4	990	9,903.4	0.03673
Inlet 5	710	5,531.4	0.01471
Inlet 6	670	3,818.6	0.00958
Inlet 7	7 390	9,554.7	0.01396
Outlet	0.24	53,404.5	0.00005

DRE of Dry Bed System (SYS2) is 99.97%.

cc: Sean Taylor

AIRS Number: 21100021

Reference Number: 202001020

Printed: 11/16/2020