Appendix 'B'

METHYL ESTER & GLYCERINE MANUFACTURING PROCESS EMISSIONS

A/C 22270

THE PROCTER & GAMBLE MANUFACTURING CO.

A/C 22270 – METHYL ESTER & GLYCERINE MFG PROCESS EMISSIONS

EMISSION SOURCE ID	EQUIPMENT ID	EMISSIONS UNIT NAME	CAPACITY (GAL)	SOCMI DEVICE TYPE	CONTENTS OR PRODUCTS	VENT	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
								LB/DAY	LB/QUARTER
0300	70-E-8604 70-E-8506A 70-E-8506B	OVERHEAD (FIN FAN) CONDENSER	NA	CONDENSER	VAPOR	TO FIRE PIT	NO LIMIT	NO LIMIT	0
0301	25-C-8800	GLYCERINE EVAPORATOR	470	EVAPORATOR	GLYCERINE	TO DEVICE 1020	22,727,070	NO LIMIT	0
0302	40-E-7762	ESTERS BOILING WATER CONDENSER	125	PROCESS TANK	WATER	NO VENT	NO LIMIT	NO LIMIT	0
0303	73-C-1211	ESTERS BOILING WATER CONDENSER CONDENSATE TANK	411	PROCESS TANK	WATER	NO VENT	NO LIMIT	NO LIMIT	0
0304	40-E-7763	ESTERS COLDWATER CONDENSER		PROCESS TANK	WATER	NO VENT	NO LIMIT	NO LIMIT	0
1002	40-D-7821	TANK 671	10,842	PROCESS TANK	ESTERS	6" PVVV	5,000,000	NO LIMIT	136
1004	40-D-338	TANK 672	34,595	PROCESS TANK	ESTERS	8" PVVV	120,200,000	NO LIMIT	104
1005	40-D-339	TANK 673	34,595	PROCESS TANK	ESTERS	8" PVVV	120,000,000	NO LIMIT	105
1006	40-D-8909	TANK 607	385,437	PROCESS TANK	ESTERS	4" PVVV	138,750,000	NO LIMIT	202
1007	90-G-8908	TANK 724	454,334	PROCESS TANK	ESTERS	4" PVVV	138,750,000	NO LIMIT	762
1007.1	40-D-8904	TANK 726	454,334	PROCESS TANK	ESTERS	4" PVVV	120,200,000	NO LIMIT	202
1008	90-D-7406	TANK 725 AKA TANK 605	455,557	PROCESS TANK	ESTERS	6" PVVV	120,200,000	NO LIMIT	732
1010	20-D-817	TANK 595	8,122	PROCESS TANK	ESTERS	3" VENT	145,000,000	NO LIMIT	177
1010.1	20-D-818	TANK 596	7,638	PROCESS TANK	ESTERS	3" VENT	145,000,000	NO LIMIT	169
1012	20-D-7538	**ESTER DRYER**	1,946	DRYER	ESTERS	6" VENT	97,152,000	NO LIMIT	1,400
						TO APC THERMAL OXIDIZER	**138,230,000 (A)**		
1019	71-D-305	TANK 532	5,076	REACTOR	GLYCERINE	4" VENT	26,250,000	NO LIMIT	12
1020	25-E-8820	GLYCERIN EVAPORATOR CONDENSER	423	PROCESS VENT	WATER/ VAPOR	2" DRAIN	6,750,000	NO LIMIT	1,104
1021	65-D-312	TANK 554	2,879	PROCESS TANK	GLYCERINE	4" VENT	23,000,000	NO LIMIT	21
1022	30-C-4029	TANK 567	1,625	PROCESS TANK	ESTERS	2.5" VENT	4,500,000	NO LIMIT	0.3
1041	40-D-7357	ESTER EJECTOR CONDENSATE TANK	3,069	PROCESS TANK & PROCESS VENT	ESTERS/ WATER	4" VENT	6,000,000	NO LIMIT	7.9
1067	71-D-521	TANK 521	16,076	PROCESS TANK	VEGETABLE OIL	4" VENT	10,000,000	NO LIMIT	1

A/C 22270 – METHYL ESTER & GLYCERINE MFG PROCESS EMISSIONS (continued)

EMISSION SOURCE ID	EQUIPMENT ID	EMISSIONS UNIT NAME	CAPACITY (GAL)	SOCMI DEVICE TYPE	CONTENTS OR PRODUCTS	VENT	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
								LB/DAY	LB/QUARTER
1070	71-D-306	TANK 531	1,028	PROCESS TANK	WATER/ GLYCERINE	4" VENT	5,000,000	NO LIMIT	0
1071	71-D-319	TANK 544	21,152	PROCESS TANK	GLYCERINE	4" VENT	26,250,000	NO LIMIT	0
1072	71-D-318	TANK 545	21,152	PROCESS TANK	GLYCERINE	4" VENT	26,250,000	NO LIMIT	0
1077	15-D-7559	BOTTOMS FROM CENTRIFUGE	20	PROCESS TANK	ESTERS	12" OPEN TOP	500,000	NO LIMIT	0
1093	90-D-7409	TANK 609	108,403	PROCESS TANK	ESTERS	8" PVVV	10,000,000	NO LIMIT	2.9
1304	15-D-301	TANK 542	3,948	PROCESS TANK	NaOH SOLUTION	VENT	NO LIMIT	NO LIMIT	0
1310	30-C-4016	TANK 606	24,690	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	40,000,000	NO LIMIT	0
1311	30-C-7833	ESTER FLASH TANK	1,128	PROCESS TANK	ESTERS	TO APC THERMAL OXIDIZER	15,000,000	NO LIMIT	0
1313	40-C-1208	ESTERS DISTILLATE RECEIVER	47	PROCESS TANK	ESTERS	TO DEVICE 1041	20,000,000	NO LIMIT	0
1314	40-C-1210	ESTERS STILL DISTILLATE RECEIVER	202	PROCESS TANK	ESTERS	TO DEVICE 1041	6,000,000	NO LIMIT	0
1316	40-C-1215	ESTERS STILL DISTILLATE RECEIVER	212	PROCESS TANK	ESTERS	TO DEVICE 1041	120,200,000	NO LIMIT	0
1317	40-C-308	ESTERS STILL	4,791	DISTILLATION COLUMN	ESTERS	TO DEVICE 1041	30,000,000	NO LIMIT	0
1318	40-C-7315	ESTERS STILL AKA TANK 638	10,364	DISTILLATION COLUMN	ESTERS	TO DEVICE 1041	120,200,000	NO LIMIT	0
1319	40-C-7324	ESTERS STILL	11,685	DISTILLATION COLUMN	ESTERS	TO DEVICE 1041	105,000,000	NO LIMIT	0
1320	40-C-7766	ATMOSPHERIC FLASH TANK		PROCESS TANK	WATER	VENT	NO LIMIT	NO LIMIT	0
1375	60-C-4503	TANK 601	~~12,976~~ 9,000	PROCESS TANK	METHANOL/ SODIUM METHOXIDE	TO APC THERMAL OXIDIZER	5,000,000	NO LIMIT	0
1376	60-C-709	TANK 582	12,976	PROCESS TANK (OUT OF SERVICE)	OUT OF SERVICE	NO VENT	0	0	0
1377	60-C-8756	TANK 588	3,760	PROCESS TANK	METHANOL/ SODIUM METHOXIDE	TO APC THERMAL OXIDIZER	7,000,000	NO LIMIT	0
1378	65-C-823	GLYCERINE COLUMN	1,904	DISTILLATION COLUMN	GLYCERINE	TO APC THERMAL OXIDIZER	33,750,000	NO LIMIT	0
1380	70-C-4416	TANK 578	185	PROCESS TANK	METHANOL/ \WATER	TO APC THERMAL OXIDIZER	250,000	NO LIMIT	0
1381	70-C-576	TANK 576	200	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	125,000	NO LIMIT	0

A/C 22270 – METHYL ESTER & GLYCERINE MFG PROCESS EMISSIONS (continued)

EMISSION SOURCE ID	EQUIPMENT ID	EMISSIONS UNIT NAME	CAPACITY (GAL)	SOCMI DEVICE TYPE	CONTENTS OR PRODUCTS	VENT	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
								LB/DAY	LB/QUARTER
1382	70-C-701	TANK 572	8,367	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	14,625,000	NO LIMIT	0
1383	70-C-702	TANK 573	8,335	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	14,625,000	NO LIMIT	0
1384	70-C-705	TANK 592	6,639	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	30,000,000	NO LIMIT	0
1385	70-C-706	TANK 593	6,639	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	30,000,000	NO LIMIT	0
1386	70-C-707	TANK 594	6,639	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	30,000,000	NO LIMIT	0
1387	70-C-8044	TANK 584	5,711	PROCESS TANK	WATER/ METHANOL	TO APC THERMAL OXIDIZER	30,000,000	NO LIMIT	0
1388	70-C-851	TANK 597	7,950	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	15,000,000	NO LIMIT	0
1389	70-C-8701	TANK 577	288	PROCESS TANK	METHANOL	TO APC THERMAL OXIDIZER	100,000,000	NO LIMIT	0
1390	70-D-714	TANK 583	4,512	PROCESS TANK	WATER/ METHANOL	TO APC THERMAL OXIDIZER	2,500,000	NO LIMIT	0
1391	71-D-303	TANK 547	7,615	PROCESS TANK	HCl SOLUTION	4" VENT	NO LIMIT	NO LIMIT	0
1392	71-D-512	TANK 512	15,280	PROCESS TANK	GLYCERINE	4" VENT	1,000,000	NO LIMIT	0.2
1393	71-D-522	TANK 522	16,076	PROCESS TANK (OUT OF SERVICE)	OUT OF SERVICE	NA	0	0	0
1396	73-D-500	TANK 500	10,156	PROCESS TANK	FATTY ACIDS, ESTERS, VEGETABLE OIL	2" VENT	1,000,000	NO LIMIT	1.8
1397	73-D-501	TANK 501	10,156	PROCESS TANK	FATTY ACIDS, ESTERS, VEGETABLE OIL	2" VENT	1,000,000	NO LIMIT	1.8
1400	73-D-8920	OIL SKIMS SURGE TANK – TANK 8920	22,000	PROCESS TANK	WATER, FATTY ACIDS	8" VENT, 8" OVERFLOW	373,750,000	NO LIMIT	0
1401	73-D-8927	OIL COALESCER	8,813	PROCESS TANK	WATER, FATTY ACIDS	8" VENT, 10" OVERFLOW	373,750,000	NO LIMIT	0.1
1402	73-D-8928	ACID WATER TANK	3,760	PROCESS TANK	WATER/ ESTERS	2" VENT, 6" OVEFLOW	12,500,000	NO LIMIT	0
1408	90-D-626	TANK 548	22,474	PROCESS TANK	H_2SO_4 SOLUTION	4" PVVV	NO LIMIT	NO LIMIT	0
1409	60-C-8751	SODIUM METHYLATE COLUMN – TANK 587	1,880	DISTILLATION COLUMN	METHANOL/ SODIUM METHYLATE	TO APC THERMAL OXIDIZER	7,000,000	NO LIMIT	0

A/C 22270 – METHYL ESTER & GLYCERINE MFG PROCESS EMISSIONS (continued)

EMISSION SOURCE ID	EQUIPMENT ID	EMISSIONS UNIT NAME	CAPACITY (GAL)	SOCMI DEVICE TYPE	CONTENTS OR PRODUCTS	VENT	MAXIMUM ALLOWABLE THROUGHPUT OR PRODUCTION (LB/QUARTER)	MAXIMUM ALLOWABLE ROC EMISSIONS	
								LB/DAY	LB/QUARTER
1412	65-C-8084	TANK 568	4,848	PROCESS TANK	METHANOL/ GLYCERINE	TO APC THERMAL OXIDIZER	14,500,000	NO LIMIT	0
1415	65-C-820	TANK 574	8,226	PROCESS TANK	GLYCERINE/ METHANOL	TO APC THERMAL OXIDIZER	14,500,000	NO LIMIT	0
1418	30-C-4506	TANK 602	17,768	PROCESS TANK	GLYCERINE/ METHANOL	TO APC THERMAL OXIDIZER	143,750,000	NO LIMIT	0
1421	20-C-4600	TANK 603	17,768	PROCESS TANK	GLYCERINE/ METHANOL	TO APC THERMAL OXIDIZER	143,750,000	NO LIMIT	0
1430	15-Y-4104	ESTER BOTTOMS CENTRIFUGE	15	CENTRIFUGE	ESTERS	TO DEVICE 1077	5,000,000	NO LIMIT	0
1430.1	15-Y-7544	ESTER BOTTOMS CENTRIFUGE	15	CENTRIFUGE	ESTERS	TO DEVICE 1077	5,000,000	NO LIMIT	0
1435	70-C-8700	METHANOL DRYER	19,735	DRYER	METHANOL	TO APC THERMAL OXIDIZER	75,000,000	NO LIMIT	0
1436	70-C-8716	METHANOL CONDENSER	68	CONDENSER	WATER/ METHANOL	TO APC THERMAL OXIDIZER	90,000,000	NO LIMIT	0
1437	20-C-7513	ESTER WASH COLUMN (EAST)	1,214	PROCESS TANK	GLYCERINE/ METHANOL	NO VENT	50,000,000	NO LIMIT	0
1437.1	20-C-4602	ESTER WASH COLUMN (NORTH)	1,214	PROCES TANK	GLYCERINE/ METHANOL	NO VENT	40,000,000	NO LIMIT	0
1437.2	20-C-804	ESTER WASH COLUMN (SOUTH)	850	PROCESS TANK	GLYCERINE/ METHANOL	NO VENT	30,000,000	NO LIMIT	0
1437.3	20-C-2326	NEW ESTER WASH COLUMN	6,205	PROCESS TANK	GLYCERINE/ METHANOL	NO VENT	120,000,000	NO LIMIT	0
1438	30-C-7534	ESTER REACTOR	44,842	REACTOR	VEGETABLE OIL/ METHANOL	TO APC THERMAL OXIDIZER	143,750,000	NO LIMIT	0
1439	30-E-7840 & 30-E-7841	ESTER FLASH AIR-COOLED CONDENSER AND CONDENSATE RECEIVER	210	CONDENSER	METHANOL	TO APC THERMAL OXIDIZER	15,000,000	NO LIMIT	0
TOTAL ROC EMISSIONS									5,142

(A) Maximum process rate allowed if the ester dryer emissions are vented to the APC Thermal Oxidizer (NTO) under P/O 21602.

Note: The emissions unit and numbers printed in **bold** are the modified unit and throughput limit.