Emissions Report for SimV2

1. OVERALL PROCESS DATA

Batch Time	99.65	h
Batch Size	104.91	kg MP
Number of Batches per Year	79.00	

MP = Flow of Component 'Pheromone' in Stream 'PHERO'

2. PROCEDURE-AVERAGED EMISSION CATEGORY RATES

Source		P-7		P-4
Designation		FR-103		FR-102
Category	Actual	Permit	Actual	Permit
Subcategory	Maximum	Allowable	Maximum	Allowable
9 ,	(kg/h)	(kg/h)	(kg/h)	(kg/h)
Total Particulate	0.00	0.23	0.00	0.23
Biological	0.00	0.00	0.00	0.00
Radionuclide	0.00	0.00	0.00	0.00
Cr6	0.00	0.00	0.00	0.00
Metal	0.00	0.00	0.00	0.00
Asbestos	0.00	0.00	0.00	0.00
Dioxin	0.00	0.00	0.00	0.00
LOC	0.00	0.00	0.00	0.00
HAP-Particulate	0.00	0.00	0.00	0.00
Other Particulate	0.00	0.00	0.00	0.00
Total VOC	0.00	0.00	0.00	0.00
VCM	0.00	0.00	0.00	0.00
TVOS	0.00	0.00	0.00	0.00
EVOS	0.00	0.00	0.00	0.00
HAP-VOC	0.00	0.00	0.00	0.00
Other VOC	0.00	0.00	0.00	0.00
Acid Gases	0.00	0.00	0.00	0.00
HAP-Acid	0.00	0.00	0.00	0.00
Acid	0.00	0.00	0.00	0.00
ETG	0.00	0.00	0.00	0.00
HAP-Gas	0.00	0.00	0.00	0.00
Non-HAP	0.00	0.00	0.00	0.00
CO	0.00	0.00	0.00	0.00
NOx	0.00	0.00	0.00	0.00
SO2	0.00	0.00	0.00	0.00
BASE	0.00	0.00	0.00	0.00

Source		P-1	
Designation		FR-101	
Category	Actual	Permit	
Subcategory	Maximum	Allowable	
-	(kg/h)	(kg/h)	
Total Particulate	0.00	0.23	
Biological	0.00	0.00	
Radionuclide	0.00	0.00	
Cr6	0.00	0.00	
Metal	0.00	0.00	
Asbestos	0.00	0.00	
Dioxin	0.00	0.00	
LOC	0.00	0.00	
HAP-Particulate	0.00	0.00	
Other Particulate	0.00	0.00	
Total VOC	0.00	0.00	
VCM	0.00	0.00	
TVOS	0.00	0.00	
EVOS	0.00	0.00	
HAP-VOC	0.00	0.00	
Other VOC	0.00	0.00	
Acid Gases	0.00	0.00	
HAP-Acid	0.00	0.00	
Acid	0.00	0.00	
ETG	0.00	0.00	
HAP-Gas	0.00	0.00	
Non-HAP	0.00	0.00	
CO	0.00	0.00	
NOx	0.00	0.00	
SO2	0.00	0.00	
BASE	0.00	0.00	
Non-HAP CO NOx SO2	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	

3. EMISSION CATEGORY TOTALS

Category		
Subcategory	(kg/batch)	
Total Particulate	0.00	
Biological	0.00	
Radionuclide	0.00	
Cr6	0.00	
Metal	0.00	
Asbestos	0.00	
Dioxin	0.00	
LOC	0.00	
HAP-Particulate	0.00	
Other Particulate	0.00	
Total VOC	0.00	
VCM	0.00	
TVOS	0.00	
EVOS	0.00	
HAP-VOC	0.00	
Other VOC	0.00	
Acid Gases	0.00	
HAP-Acid	0.00	
Acid	0.00	
ETG	0.00	
HAP-Gas	0.00	
Non-HAP	0.00	
CO	0.00	
NOx	0.00	
SO2	0.00	
BASE	0.00	
User Pollutants	0.00	

4. COMPONENT EMISSION AMOUNTS PER BATCH

P-7 in FR-103	
Operation	Carb. Dioxide (kg/batch)
TRANSFER-IN-1	0.00
CHARGE-2	0.00
HEAT-1	0.00
FERMENT-1	8.58
COOL-1	0.00
TRANSFER-OUT-1	0.00
Total	8.58

P-4 in FR-102		
Operation	Carb. Dioxide (kg/batch)	
TRANSFER-IN-1	0.00	
CHARGE-2	0.00	
HEAT-1	0.00	
FERMENT-1	8.58	
COOL-1	0.00	
TRANSFER-OUT-1	0.00	
Total	8.58	

P-1 in FR-101		
Operation	Carb. Dioxide (kg/batch)	
TRANSFER-IN-1	0.00	
CHARGE-2	0.00	
HEAT-1	0.00	
FERMENT-1	8.58	
COOL-1	0.00	
TRANSFER-OUT-1	0.00	
Total	8.58	

Batch Totals		
Component	Amount (kg)	
Carb. Dioxide	25.73	
Total	25.73	

5. PROCEDURE-AVERAGED COMPONENT EMISSION RATES

P-7 in FR-103 (C)	/cle Time: 9	99,65 h)
Operation	Process Time (h)	Carb. Dioxide (kg/h)
TRANSFER-IN-1	33.33	0.00
CHARGE-2	48.00	0.00
HEAT-1	0.00	0.00
FERMENT-1	16.00	0.09
COOL-1	0.40	0.00
TRANSFER-OUT-1	1.00	0.00
Total		0.09

P-4 in FR-102 (C)	ycle Time: 9	99,65 h)	
Operation	Process Time (h)	Carb. Dioxide (kg/h)	
TRANSFER-IN-1	33.33	0.00)
CHARGE-2	48.00	0.00)
HEAT-1	0.00	0.00)
FERMENT-1	16.00	0.09)
COOL-1	0.40	0.00)
TRANSFER-OUT-1	1.00	0.00)
Total		0.09)

P-1 in FR-101 (C)	ycle Time: 9	99,65 h)
Operation	Process Time (h)	Carb. Dioxide (kg/h)
TRANSFER-IN-1	33.33	0.00
CHARGE-2	48.00	0.00
HEAT-1	0.00	0.00
FERMENT-1	16.00	0.09
COOL-1	0.40	0.00
TRANSFER-OUT-1	1.00	0.00
Total		0.09

6. OPERATION-AVERAGED COMPONENT EMISSION RATES

P-7 in FR-103 (C)	ycle Time: 9	99,65 h)
Operation	Process Time (h)	Carb. Dioxide (kg/h)
TRANSFER-IN-1	33.33	0.00
CHARGE-2	48.00	0.00
HEAT-1	0.00	0.00
FERMENT-1	16.00	0.54
COOL-1	0.40	0.00
TRANSFER-OUT-1	1.00	0.00

P-4 in FR-102 (C)	ycle Time: 9	99,65 h)
Operation	Process Time (h)	Carb. Dioxide (kg/h)
TRANSFER-IN-1	33.33	0.00
CHARGE-2	48.00	0.00
HEAT-1	0.00	0.00
FERMENT-1	16.00	0.54
COOL-1	0.40	0.00
TRANSFER-OUT-1	1.00	0.00

P-1 in FR-101 (Cycle Time: 99,65 h)				
Operation	Process Time (h)	Carb. Dioxide (kg/h)		
TRANSFER-IN-1	33.33	0.00		
CHARGE-2	48.00	0.00		
HEAT-1	0.00	0.00		
FERMENT-1	16.00	0.54		
COOL-1	0.40	0.00		
TRANSFER-OUT-1	1.00	0.00		

7. COMPONENT EMISSION RATES (1h Averages)

Carb. Dioxide (CO2)							
Interval	Min Rate Max Rate		Ave Rate	Source Procedure	Source Operation	Source Rate	
(h)	(kg/h)	(kg/h)	(kg/h)			(kg/h)	
81,00 - 82,00	0.00	1.61	0.13	P-1	FERMENT-1	0.54	
81,00 - 82,00	0.00	1.61	0.13	P-4	FERMENT-1	0.54	
81,00 - 82,00	0.00	1.61	0.13	P-7	FERMENT-1	0.54	
82,00 - 83,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
82,00 - 83,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
82,00 - 83,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
83,00 - 84,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
83,00 - 84,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
83,00 - 84,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
84,00 - 85,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
84,00 - 85,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
84,00 - 85,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
85,00 - 86,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
85,00 - 86,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
85,00 - 86,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
86,00 - 87,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
86,00 - 87,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
86,00 - 87,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
87,00 - 88,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
87,00 - 88,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
87,00 - 88,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
88,00 - 89,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
88,00 - 89,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
88,00 - 89,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
89,00 - 90,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
89,00 - 90,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54	
89,00 - 90,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54	
90,00 - 91,00	1.61	1.61	1.61	P-1 P-4	FERMENT-1	0.54	
90,00 - 91,00	1.61	1.61 1.61	1.61 1.61	P-4 P-7	FERMENT-1	0.54	
90,00 - 91,00 91,00 - 92,00	1.61 1.61	1.61	1.61	P-1 P-1	FERMENT-1 FERMENT-1	0.54 0.54	
91,00 - 92,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	
91,00 - 92,00	1.61	1.61	1.61	P-4 P-7	FERMENT-1	0.54	
92,00 - 93,00		1.61		P-1	FERMENT-1	0.54	
92,00 - 93,00	1.61 1.61	1.61	1.61 1.61	P-4	FERMENT-1	0.54	
92,00 - 93,00	1.61	1.61	1.61	P-4 P-7		0.54	
					FERMENT-1		
93,00 - 94,00 93,00 - 94,00	1.61	1.61	1.61	P-1 P-4	FERMENT-1	0.54	
93,00 - 94,00	1.61 1.61	1.61 1.61	1.61 1.61	P-4 P-7	FERMENT-1 FERMENT-1	0.54 0.54	
	1.61	1.61	1.61	P-7 P-1	FERMENT-1	0.54 0.54	
94,00 - 95,00 94,00 - 95,00	1.61	1.61	1.61	P-1 P-4	FERMENT-1	0.54 0.54	
				P-4 P-7	FERMENT-1		
94,00 - 95,00	1.61	1.61	1.61			0.54	
95,00 - 96,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54	

95,00 - 96,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54
95,00 - 96,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54
96,00 - 97,00	1.61	1.61	1.61	P-1	FERMENT-1	0.54
96,00 - 97,00	1.61	1.61	1.61	P-4	FERMENT-1	0.54
96,00 - 97,00	1.61	1.61	1.61	P-7	FERMENT-1	0.54
97,00 - 98,00	0.00	1.61	1.47	P-1	FERMENT-1	0.54
97,00 - 98,00	0.00	1.61	1.47	P-4	FERMENT-1	0.54
97,00 - 98,00	0.00	1.61	1.47	P-7	FERMENT-1	0.54