

Procter & Gamble

The Procter & Gamble Company
Sharon Woods Innovation Center
11510 Reed Hartman Hwy, Cincinnati, OH 45241

June 18, 2017

Steven R. Pursley, PE
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street, SE
Charleston, WV 25304

RE: *Procter and Gamble – Tabler Station; Minor NSR Air Quality Permit R13-3316 Amendment*

Dear Mr. Pursley,

As you know, Procter and Gamble (P&G) is constructing a consumer products facility in Berkeley County, West Virginia near the unincorporated community of Tabler Station. The Tabler Station facility will be comprised of a surfactant-making process, liquid soap making process, dry consumer laundry and cleaning products manufacturing, plastics molding supplier, and related utilities.

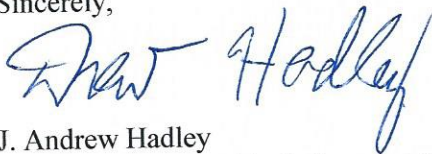
P&G is making the following Class I administrative updates to the application submitted October 11, 2016, for which Permit R13-3316 was issued.

1. Addition of three new raw material tanks¹ in the Liquid Soap A and B area and
2. Revision to anticipated throughput for raw material tanks in the Liquid Soap A and B area.

The proposed changes result in a plant-wide decrease of 0.14 tpy VOC emissions.

We appreciate your continued support to the P&G-Tabler Station project and your review of this amendment. Please feel free to contact me at 513-765-0497 or Ms. Allison Cole of Trinity Consultants at 540-342-5945 with any questions on the proposed changes.

Sincerely,



J. Andrew Hadley
Environmental, Health, Safety, and Sustainability Manager
Procter & Gamble - NA Product Supply Engineering

Enclosure

cc (w/o enclosure): Mr. Russell Bailey – Trinity Consultants; Ms. Allison Cole – Trinity Consultants

¹ Please note - the new tanks meet the exemption requirements of New Source Performance Standard Subpart Kb for storage tanks.



WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
 601 57th Street, SE
 Charleston, WV 25304
 (304) 926-0475
www.dep.wv.gov/daq

**APPLICATION FOR NSR PERMIT
 AND
 TITLE V PERMIT REVISION
 (OPTIONAL)**

PLEASE CHECK ALL THAT APPLY TO NSR (45CSR13) (IF KNOWN):
 CONSTRUCTION MODIFICATION RELOCATION
 CLASS I ADMINISTRATIVE UPDATE TEMPORARY
 CLASS II ADMINISTRATIVE UPDATE AFTER-THE-FACT

PLEASE CHECK TYPE OF 45CSR30 (TITLE V) REVISION (IF ANY):
 ADMINISTRATIVE AMENDMENT MINOR MODIFICATION
 SIGNIFICANT MODIFICATION
 IF ANY BOX ABOVE IS CHECKED, INCLUDE TITLE V REVISION INFORMATION AS ATTACHMENT S TO THIS APPLICATION

FOR TITLE V FACILITIES ONLY: Please refer to "Title V Revision Guidance" in order to determine your Title V Revision options (Appendix A, "Title V Permit Revision Flowchart") and ability to operate with the changes requested in this Permit Application.

Section I. General

1. Name of applicant (as registered with the WV Secretary of State's Office): The Procter and Gamble Manufacturing Company		2. Federal Employer ID No. (FEIN): 31-0411982	
3. Name of facility (if different from above): Tabler Station		4. The applicant is the: <input type="checkbox"/> OWNER <input type="checkbox"/> OPERATOR <input checked="" type="checkbox"/> BOTH	
5A. Applicant's mailing address: The Procter & Gamble Company Sharon Woods Innovation Center A2M11-3 11510 Reed Hartman Highway Cincinnati, OH 45241		5B. Facility's present physical address: Procter & Gamble – Tabler Station Site 396 Development Drive Inwood, WV 25428	
6. West Virginia Business Registration. Is the applicant a resident of the State of West Virginia? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO – If YES, provide a copy of the Certificate of Incorporation/Organization/Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A . – If NO, provide a copy of the Certificate of Authority/Authority of L.L.C./Registration (one page) including any name change amendments or other Business Certificate as Attachment A .			
7. If applicant is a subsidiary corporation, please provide the name of parent corporation: N/A			
8. Does the applicant own, lease, have an option to buy or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO – If YES, please explain: Procter and Gamble owns the site. – If NO, you are not eligible for a permit for this source.			
9. Type of plant or facility (stationary source) to be constructed, modified, relocated, administratively updated or temporarily permitted (e.g., coal preparation plant, primary crusher, etc.): Facility will produce liquid consumer products and dry consumer laundry and cleaning products.		10. North American Industry Classification System (NAICS) code for the facility: 325612, 325613, 325620	
11A. DAQ Plant ID No. (for existing facilities only): 003-00154		11B. List all current 45CSR13 and 45CSR30 (Title V) permit numbers associated with this process (for existing facilities only): R13-3316	

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

12A.

- For **Modifications, Administrative Updates** or **Temporary permits** at an existing facility, please provide directions to the *present location* of the facility from the nearest state road;
- For **Construction** or **Relocation permits**, please provide directions to the *proposed new site location* from the nearest state road. **Include a MAP as Attachment B.**

Exit US Route 81 at exit 8 for Tabler Station Road. Proceed East on Tabler Station Road for 1.1 miles to Development Drive. Turn left on Development Drive and proceed approximately 0.2 miles to site entrance

12.B. New site address (if applicable):

12C. Nearest city or town:
Inwood, WV

12D. County:
Berkeley County, WV

12.E. UTM Northing (KM): **4,366**

12F. UTM Easting (KM): **757**

12G. UTM Zone: **17S**

13. Briefly describe the proposed change(s) at the facility:

Additional liquid Soap A and B tanks; tank design changes

14A. Provide the date of anticipated installation or change: **7/01/2017**

- If this is an **After-The-Fact** permit application, provide the date upon which the proposed change did happen: / /

14B. Date of anticipated Start-Up if a permit is granted:
08/01/2017

14C. Provide a **Schedule** of the planned **Installation of/Change** to and **Start-Up** of each of the units proposed in this permit application as **Attachment C** (if more than one unit is involved).

15. Provide maximum projected **Operating Schedule** of activity/activities outlined in this application:
Hours Per Day **24** Days Per Week **7** Weeks Per Year **52**

16. Is demolition or physical renovation at an existing facility involved? YES NO

17. **Risk Management Plans.** If this facility is subject to 112(r) of the 1990 CAAA, or will become subject due to proposed changes (for applicability help see www.epa.gov/ceppo), submit your **Risk Management Plan (RMP)** to U. S. EPA Region III.

18. **Regulatory Discussion.** List all Federal and State air pollution control regulations that you believe are applicable to the proposed process (*if known*). A list of possible applicable requirements is also included in Attachment S of this application (Title V Permit Revision Information). Discuss applicability and proposed demonstration(s) of compliance (*if known*). Provide this information as **Attachment D**.

Section II. Additional attachments and supporting documents.

19. Include a check payable to WVDEP – Division of Air Quality with the appropriate **application fee** (per 45CSR22 and 45CSR13).

20. Include a **Table of Contents** as the first page of your application package.

21. Provide a **Plot Plan**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is or is to be located as **Attachment E** (Refer to **Plot Plan Guidance**).

- Indicate the location of the nearest occupied structure (e.g. church, school, business, residence).

22. Provide a **Detailed Process Flow Diagram(s)** showing each proposed or modified emissions unit, emission point and control device as **Attachment F**.

23. Provide a **Process Description** as **Attachment G**.

- Also describe and quantify to the extent possible all changes made to the facility since the last permit review (if applicable).

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

24. Provide **Material Safety Data Sheets (MSDS)** for all materials processed, used or produced as **Attachment H**.
– For chemical processes, provide a MSDS for each compound emitted to the air.

25. Fill out the **Emission Units Table** and provide it as **Attachment I**.

26. Fill out the **Emission Points Data Summary Sheet (Table 1 and Table 2)** and provide it as **Attachment J**.

27. Fill out the **Fugitive Emissions Data Summary Sheet** and provide it as **Attachment K**.

28. Check all applicable **Emissions Unit Data Sheets** listed below:

- | | | |
|--|--|--|
| <input type="checkbox"/> Bulk Liquid Transfer Operations | <input type="checkbox"/> Haul Road Emissions | <input type="checkbox"/> Quarry |
| <input type="checkbox"/> Chemical Processes | <input type="checkbox"/> Hot Mix Asphalt Plant | <input type="checkbox"/> Solid Materials Sizing, Handling and Storage Facilities |
| <input type="checkbox"/> Concrete Batch Plant | <input type="checkbox"/> Incinerator | <input checked="" type="checkbox"/> Storage Tanks |
| <input type="checkbox"/> Grey Iron and Steel Foundry | <input type="checkbox"/> Indirect Heat Exchanger | |
| <input type="checkbox"/> General Emission Unit, specify | | |

Fill out and provide the **Emissions Unit Data Sheet(s)** as **Attachment L**.

29. Check all applicable **Air Pollution Control Device Sheets** listed below:

- | | | |
|--|---|--|
| <input type="checkbox"/> Absorption Systems | <input type="checkbox"/> Baghouse | <input type="checkbox"/> Flare |
| <input type="checkbox"/> Adsorption Systems | <input type="checkbox"/> Condenser | <input type="checkbox"/> Mechanical Collector |
| <input type="checkbox"/> Afterburner | <input type="checkbox"/> Electrostatic Precipitator | <input type="checkbox"/> Wet Collecting System |
| <input type="checkbox"/> Other Collectors, specify | | |

Fill out and provide the **Air Pollution Control Device Sheet(s)** as **Attachment M**.

30. Provide all **Supporting Emissions Calculations** as **Attachment N**, or attach the calculations directly to the forms listed in Items 28 through 31.

31. **Monitoring, Recordkeeping, Reporting and Testing Plans.** Attach proposed monitoring, recordkeeping, reporting and testing plans in order to demonstrate compliance with the proposed emissions limits and operating parameters in this permit application. Provide this information as **Attachment O**.

- Please be aware that all permits must be practically enforceable whether or not the applicant chooses to propose such measures. Additionally, the DAQ may not be able to accept all measures proposed by the applicant. If none of these plans are proposed by the applicant, DAQ will develop such plans and include them in the permit.

32. **Public Notice.** At the time that the application is submitted, place a **Class I Legal Advertisement** in a newspaper of general circulation in the area where the source is or will be located (See 45CSR§13-8.3 through 45CSR§13-8.5 and **Example Legal Advertisement** for details). Please submit the **Affidavit of Publication** as **Attachment P** immediately upon receipt.

33. **Business Confidentiality Claims.** Does this application include confidential information (per 45CSR31)?

YES NO

- If **YES**, identify each segment of information on each page that is submitted as confidential and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's **"Precautionary Notice – Claims of Confidentiality"** guidance found in the **General Instructions** as **Attachment Q**.

Section III. Certification of Information

34. **Authority/Delegation of Authority.** Only required when someone other than the responsible official signs the application. Check applicable **Authority Form** below:

- | | |
|--|---|
| <input type="checkbox"/> Authority of Corporation or Other Business Entity | <input type="checkbox"/> Authority of Partnership |
| <input type="checkbox"/> Authority of Governmental Agency | <input type="checkbox"/> Authority of Limited Partnership |

Submit completed and signed **Authority Form** as **Attachment R**.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

35A. **Certification of Information.** To certify this permit application, a Responsible Official (per 45CSR§13-2.22 and 45CSR§30-2.28) or Authorized Representative shall check the appropriate box and sign below.

Certification of Truth, Accuracy, and Completeness

I, the undersigned **Responsible Official** / **Authorized Representative**, hereby certify that all information contained in this application and any supporting documents appended hereto, is true, accurate, and complete based on information and belief after reasonable inquiry I further agree to assume responsibility for the construction, modification and/or relocation and operation of the stationary source described herein in accordance with this application and any amendments thereto, as well as the Department of Environmental Protection, Division of Air Quality permit issued in accordance with this application, along with all applicable rules and regulations of the West Virginia Division of Air Quality and W.Va. Code § 22-5-1 et seq. (State Air Pollution Control Act). If the business or agency changes its Responsible Official or Authorized Representative, the Director of the Division of Air Quality will be notified in writing within 30 days of the official change.

Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

SIGNATURE _____

(Please use blue ink)

DATE: _____

(Please use blue ink)

35B. Printed name of signee: **Francisco Lanza**

35C. Title: **Manufacturing Capability Associate Director**

35D. E-mail: **Lanza.fs@pg.com**

36E. Phone: **513-626-6440**

36F. FAX:

36A. Printed name of contact person (if different from above): **Drew Hadley**

36B. Title: **Environmental Health and Safety Manager NA Supply Network Design**

36C. E-mail: **hadley.ja@pg.com**

36D. Phone: **513-765-0497**

36E. FAX:

PLEASE CHECK ALL APPLICABLE ATTACHMENTS INCLUDED WITH THIS PERMIT APPLICATION:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Attachment A: Business Certificate | <input type="checkbox"/> Attachment K: Fugitive Emissions Data Summary Sheet |
| <input type="checkbox"/> Attachment B: Map(s) | <input checked="" type="checkbox"/> Attachment L: Emissions Unit Data Sheet(s) |
| <input type="checkbox"/> Attachment C: Installation and Start Up Schedule | <input type="checkbox"/> Attachment M: Air Pollution Control Device Sheet(s) |
| <input type="checkbox"/> Attachment D: Regulatory Discussion | <input checked="" type="checkbox"/> Attachment N: Supporting Emissions Calculations |
| <input type="checkbox"/> Attachment E: Plot Plan | <input type="checkbox"/> Attachment O: Monitoring/Recordkeeping/Reporting/Testing Plans |
| <input type="checkbox"/> Attachment F: Detailed Process Flow Diagram(s) | <input type="checkbox"/> Attachment P: Public Notice |
| <input type="checkbox"/> Attachment G: Process Description | <input type="checkbox"/> Attachment Q: Business Confidential Claims |
| <input type="checkbox"/> Attachment H: Material Safety Data Sheets (MSDS) | <input type="checkbox"/> Attachment R: Authority Forms |
| <input checked="" type="checkbox"/> Attachment I: Emission Units Table | <input type="checkbox"/> Attachment S: Title V Permit Revision Information |
| <input checked="" type="checkbox"/> Attachment J: Emission Points Data Summary Sheet | <input type="checkbox"/> Application Fee |

Please mail an original and three (3) copies of the complete permit application with the signature(s) to the DAQ, Permitting Section, at the address listed on the first page of this application. Please DO NOT fax permit applications.

FOR AGENCY USE ONLY – IF THIS IS A TITLE V SOURCE:

- Forward 1 copy of the application to the Title V Permitting Group and:
- For Title V Administrative Amendments:
 - NSR permit writer should notify Title V permit writer of draft permit,
- For Title V Minor Modifications:
 - Title V permit writer should send appropriate notification to EPA and affected states within 5 days of receipt,
 - NSR permit writer should notify Title V permit writer of draft permit.
- For Title V Significant Modifications processed in parallel with NSR Permit revision:
 - NSR permit writer should notify a Title V permit writer of draft permit,
 - Public notice should reference both 45CSR13 and Title V permits,
 - EPA has 45 day review period of a draft permit.

All of the required forms and additional information can be found under the Permitting Section of DAQ's website, or requested by phone.

ATTACHMENT I

Emission Units Table

**Attachment I
Emission Units Table**

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID ¹	Emission Point ID ²	Emission Unit Description	Year Installed/Modified	Design Capacity	Type ³ and date of Change	Control Device ⁴
1S	1E	Surfactant Making Process	2017	3,000 gal/hr	New	1C
2S	2E	Surfactant Making Process	2017	3,000 gal/hr	New	2C
3S	3E	Surfactant Tanks	2017	120,762 gal	New	--
4S	4E	Surfactant Tanks	2017	48,345 gal	New	--
5S	5E	Surfactant Tanks	2017	40,109 gal	New	--
6S	6E	Surfactant Tanks	2017	40,109 gal	New	--
7S	7E	Surfactant Tanks	2017	15,125 gal	New	--
8S	8E	Surfactant Tanks	2017	15,125 gal	New	--
9S	9E	Surfactant Tanks	2017	15,125 gal	New	--
10S	10E	Surfactant Tanks	2017	72,475 gal	New	--
11S	11E	Surfactant Tanks	2017	72,475 gal	New	--
12S	12E	Surfactant Tanks	2017	72,475 gal	New	--
13S	13E	Surfactant Tanks	2017	72,475 gal	New	--
14S	14E	Surfactant Tanks	2017	72,475 gal	New	--
15S	15E	Surfactant Tanks	2017	72,475 gal	New	--
16S	16E	Surfactant Tanks	2017	26,083 gal	New	--
17S	17E	Surfactant Tanks	2017	15,125 gal	New	--
18S	18E	Surfactant Tanks	2017	15,125 gal	New	--
19S	19E	Surfactant Bulk Liquid Transfer	2017	17,150,000 gal/yr	New	--
20S	20E	Liquid Soap A and B Tanks	2017	79,252 gal	New	--
21S	21E	Liquid Soap A and B Tanks	2017	79,252 gal	New	--
22S	22E	Liquid Soap A and B Tanks	2017	79,252 gal	New	--
23S	23E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
24S	24E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
25S	25E	Liquid Soap A and B Tanks	2017	39,626 gal	New	--
26S	26E	Liquid Soap A and B Tanks	2017	15,850 gal	New	--
27S	27E	Liquid Soap A and B Tanks	2017	39,626 gal	New	--
28S	28E	Liquid Soap A and B Tanks	2017	26,417 gal	New	--
29S	29E	Liquid Soap A and B Tanks	2017	15,850 gal	New	--
30S	30E	Liquid Soap A and B Tanks	2017	26,417 gal	New	--
31S	31E	Liquid Soap A and B Tanks	2017	15,850 gal	New	--
32S	32E	Liquid Soap A and B Tanks	2017	15,850 gal	New	--
33S	33E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
34S	34E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
35S	35E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
36S	36E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
37S	37E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
50S	50E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
56S	56E	Liquid Soap A and B Tanks	2017	7,275 gal	New	--
53S	53E	Liquid Soap A and B Tanks	2017	7,925 gal	New	--
38S	38E	Liquid Soap A and B Tanks	2017	396 gal	New	--
40S	40E	Liquid Soap A and B Tanks	2017	396 gal	New	--
41S	41E	Liquid Soap A and B Tanks	2017	396 gal	New	--
42S	42E	Liquid Soap A and B Tanks	2017	396 gal	New	--
43S	43E	Liquid Soap A and B Tanks	2017	396 gal	New	--
44S	44E	Liquid Soap A and B Tanks	2017	396 gal	New	--
45S	45E	Liquid Soap A and B Tanks	2017	396 gal	New	--
46S	46E	Liquid Soap A and B Tanks	2017	396 gal	New	--
47S	47E	Liquid Soap A and B Tanks	2017	396 gal	New	--
51S	51E	Liquid Soap A and B Tanks	2017	396 gal	New	--
52S	52E	Liquid Soap A and B Tanks	2017	396 gal	New	--
54S	54E	Liquid Soap A and B Tanks	2017	660 gal	New	--
55S	55E	Liquid Soap A and B Tanks	2017	396 gal	New	--
57S	57E	Liquid Soap A and B Tanks	2017	1,057 gal	New	--
59S	59E	Liquid Soap A and B Tanks	2017	396 gal	New	--
60S	60E	Liquid Soap A and B Tanks	2017	132 gal	New	--
61S	61E	Liquid Soap A and B Tanks	2017	396 gal	New	--
63S	63E	Liquid Soap A and B Tanks	2017	396 gal	New	--
64S	64E	Liquid Soap A and B Tanks	2017	396 gal	New	--
65S	65E	Liquid Soap A and B Tanks	2017	396 gal	New	--
66S	66E	Liquid Soap A and B Tanks	2017	396 gal	New	--
67S	67E	Liquid Soap A and B Tanks	2017	396 gal	New	--
68S	68E	Liquid Soap A and B Tanks	2017	396 gal	New	--
69S	69E	Liquid Soap A and B Tanks	2017	396 gal	New	--
70S	70E	Liquid Soap A and B Tanks	2017	396 gal	New	--
71S	71E	Liquid Soap A and B Tanks	2017	396 gal	New	--
72S	72E	Liquid Soap A and B Tanks	2017	396 gal	New	--
73S	73E	Liquid Soap A and B Tanks	2017	396 gal	New	--
74S	74E	Liquid Soap A and B Tanks	2017	396 gal	New	--
75S	75E	Liquid Soap A and B Tanks	2017	396 gal	New	--
76S	76E	Liquid Soap A and B Tanks	2017	396 gal	New	--
77S	77E	Liquid Soap A and B Tanks	2017	396 gal	New	--
87S	87E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
88S	88E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
89S	89E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
90S	90E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
91S	91E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
92S	92E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
93S	93E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
94S	94E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
94bS	94bE	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
94cS	94cE	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
94dS	94dE	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
94eS	94eE	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
95S	95E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
96S	96E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
97S	97E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
98S	98E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
99S	99E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
100S	100E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
101S	101E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
102S	102E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
103S	103E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
104S	104E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
105S	105E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
106S	106E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
107S	107E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
108S	108E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
109S	109E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
110S	110E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
111S	111E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
112S	112E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
113S	113E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
114S	114E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
115S	115E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
116S	116E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
117S	117E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
118S	118E	Liquid Soap A and B Tanks	2017	1,585 gal	New	--
119S	119E	Liquid Soap A and B Packing/Filling	2017	139,798,617 gal/yr	New	--
120S		Mixer 1 for Premix Process 1	2017		New	
121S		Mixer 2 for Premix Process 1	2017		New	
122S	120E	Premix Tank 1 for Premix Process 1	2017	1,182,600,000 scf/yr	New	3C
123S		Premix Tank 2 for Premix Process 1	2017		New	
124S		Mixer 1 for Liquid Soap B Process 1	2017		New	
125S	121E	Process Tank 1 for Liquid Soap B Process 1	2017	2,496,600,000 scf/yr	New	4C
126S		Process Tank 2 for Liquid Soap B Process 1	2017		New	
127S		Process Tank 3 for Liquid Soap B Process 1	2017		New	
128S		Mixer 1 for Liquid Soap B Process 2	2017		New	
129S	122E	Process Tank 1 for Liquid Soap B Process 2	2017	2,496,600,000 scf/yr	New	5C
130S		Process Tank 2 for Liquid Soap B Process 2	2017		New	
131S		Process Tank 3 for Liquid Soap B Process 2	2017		New	
132S		Mixer 1 for Liquid Soap B Process 3	2017		New	
133S	123E	Process Tank 1 for Liquid Soap B Process 3	2017	1,655,640,000 scf/yr	New	6C
134S		Process Tank 2 for Liquid Soap B Process 3	2017		New	
135S		Process Tank 3 for Liquid Soap B Process 3	2017		New	
136S		Preweigh Station 1	2017		New	
137S	124E	Preweigh Station 2	2017	525,600,000 scf/yr	New	7C
138S		Preweigh Station 3	2017		New	
139S		Preweigh Station 4	2017		New	
140S		Preweigh Station 5	2017		New	
141S	125E	Preweigh Station 6	2017	525,600,000 scf/yr	New	8C
142S		Preweigh Station 7	2017		New	
143S		Preweigh Station 8	2017		New	
144S		Sampling Station	2017		New	
145S	126E	Hot Mix Tank for Liquid Soap A Process 1	2017	20,611,765 cf/year	New	14C

**Attachment I
Emission Units Table**

(includes all emission units and air pollution control devices that will be part of this permit application review, regardless of permitting status)

Emission Unit ID ¹	Emission Point ID ²	Emission Unit Description	Year Installed/Modified	Design Capacity	Type ³ and date of Change	Control Device ⁴
146S		Mixer 1 for Liquid Soap A Process 1	2017		New	
147S	127E	Process Tank 1 for Liquid Soap A Process 1	2017	919,800,000 scf/yr	New	9C
148S		Process Tank 2 for Liquid Soap A Process 1	2017		New	
149S	126E	Hot Mix Tank for Liquid Soap A Process 2	2017	20,611,765 cf/year	New	14C
150S		Mixer 1 for Liquid Soap A Process 2	2017		New	
151S	128E	Process Tank 1 for Liquid Soap A Process 2	2017	919,800,000 scf/yr	New	10C
152S		Process Tank 2 for Liquid Soap A Process 2	2017		New	
153S	126E	Hot Mix Tank for Liquid Soap A Process 3	2017	20,611,765 cf/year	New	14C
154S		Mixer 1 for Liquid Soap A Process 3	2017		New	
155S	129E	Process Tank 1 for Liquid Soap A Process 3	2017	919,800,000 scf/yr	New	11C
156S		Process Tank 2 for Liquid Soap A Process 3	2017		New	
157S	126E	Hot Mix Tank for Liquid Soap A Process 4	2017	20,611,765 cf/year	New	14C
158S		Mixer 1 for Liquid Soap A Process 4	2017		New	
159S	130E	Process Tank 1 for Liquid Soap A Process 4	2017	1,603,080,000 scf/yr	New	12C
160S		Process Tank 2 for Liquid Soap A Process 4	2017		New	
161S	131E	Process Tank 1 for Liquid Soap B Process 4	2017	735,840,000 scf/yr	New	13C
162S		Process Tank 2 for Liquid Soap B Process 4	2017		New	
163S	132E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	42,879 gal	New	--
164S	133E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	37,641 gal	New	--
165S	134E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	6,809 gal	New	--
166S	135E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	396 gal	New	--
167S	136E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	396 gal	New	--
168S	137E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	396 gal	New	--
169S	138E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
170S	139E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
171S	140E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
172S	141E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
173S	142E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
174S	143E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
175S	144E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
176S	145E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
177S	146E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
178S	147E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
179S	148E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
180S	149E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
181S	150E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
182S	151E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
183S	152E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
184S	153E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
185S	154E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
186S	155E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
187S	156E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
188S	157E	Dry Consumer Laundry and Cleaning Products A Tanks	2017	181 gal	New	--
189S	158E	Dry Consumer Laundry and Cleaning Products A Particulate Control 1	2017	17,450 scfm	New	15C
190S	159E	Dry Consumer Laundry and Cleaning Products A Particulate Control 2	2017	17,450 scfm	New	16C
191S	160E	Dry Consumer Laundry and Cleaning Products A Particulate Control 3	2017	17,450 scfm	New	17C
192S	161E	Dry Consumer Laundry and Cleaning Products A Particulate Control 4	2017	17,450 scfm	New	18C
193S	162E	Dry Consumer Laundry and Cleaning Products A Particulate Control 5	2017	17,450 scfm	New	19C
194S	163E	Dry Consumer Laundry and Cleaning Products A Particulate Control 6	2017	8,000 scfm	New	20C
195S	164E	Dry Consumer Laundry and Cleaning Products A Additive 1	2017	109 ft/s	New	--
196S	165E	Boiler 1	2017	62 MMBtu/hr	New	--
197S	166E	Boiler 2	2017	62 MMBtu/hr	New	--
198S	167E	Boiler 3	2017	31 MMBtu/hr	New	--
199S	168E	Temporary Boiler	2017	11 MMBtu/hr	New	--
200S	169E	Cooling Tower	2017	331 Mgal/hr	New	--
201S	170E	Cooling Tower	2017	792 Mgal/hr	New	--
202S	171E	Cooling Tower	2017	212 Mgal/hr	New	--
203S	172E	Fire Pump Engine	2017	311 hp	New	--
204S	173E	Fire Pump Engine	2017	311 hp	New	--
205S	174E	Backup/Standby Power Generator	2017	350 kW	New	--
206S	175E	Backup/Standby Power Generator	2017	350 kW	New	--
207S	176E	Backup/Standby Power Generator	2017	350 kW	New	--
208S	177E	Fuel Tanks	2017	5,000 gal	New	--
210S	179E	Warehouse Heater	2017	3.05 MMBtu/hr	New	--
211S	180E	Warehouse Heater	2017	3.05 MMBtu/hr	New	--
212S	181E	Warehouse Heater	2017	3.05 MMBtu/hr	New	--
213S	182E	Warehouse Heater	2017	3.05 MMBtu/hr	New	--
214S	183E	Warehouse Heater	2017	3.05 MMBtu/hr	New	--
215S	184E	Warehouse Heater	2017	3.05 MMBtu/hr	New	--
216S	185E	Water Pretreatment Chemicals	2017	174,928 kg/yr	New	--
217S	186E	Railcar Unloading 1	2017		New	21C
218S	187E	Railcar Unloading 2	2017		New	22C
219S	188E	Railcar Unloading 3	2017		New	23C
220S	189E	Railcar Unloading 4	2017		New	24C
221S	190E	Railcar Unloading 5	2017		New	25C
222S	191E	Storage Silo 1	2017		New	--
223S	192E	Storage Silo 2	2017		New	--
224S	193E	Storage Silo 3	2017		New	--
225S	194E	Storage Silo 4	2017		New	--
226S	195E	Storage Silo 5	2017		New	--
227S	196E	Storage Silo 6	2017		New	--
228S	197E	Storage Silo 7	2017		New	--
229S	198E	Storage Silo 8	2017		New	--
230S	199E	Storage Silo 9	2017		New	--
231S	200E	Storage Silo 10	2017		New	--
232S	201E	Storage Silo 11	2017		New	--
233S	202E	Storage Silo 12	2017		New	--
234S	203E	Storage Silo 13	2017		New	--
235S	204E	Storage Silo 14	2017		New	--
236S	205E	Storage Silo 15	2017		New	--
237S	206E	Storage Silo 16	2017		New	--
238S	207E	Storage Silo 17	2017		New	--
239S	208E	Storage Silo 18	2017		New	--
240S	209E	Storage Silo 19	2017		New	--
241S	210E	Storage Silo 20	2017		New	--
242S	211E	Storage Silo 21	2017		New	--
243S	212E	Storage Silo 22	2017		New	--
244S	213E	Storage Silo 23	2017		New	--
245S	214E	Storage Silo 24	2017		New	--
246S	215E	Plastic Regrind	2017	32,000 tons/year	New	26C
247S	216E	Forming VOC	2017	100,000 tons/year	New	--
248S	217E	Parts Washing/Process Cleaning	2017	6 tons/year	New	--
249S	218E	Space Heater 1	2017	5 MMBtu/hr	New	--
250S	219E	Space Heater 2	2017	5 MMBtu/hr	New	--
251S	220E	Space Heater 3	2017	2.5 MMBtu/hr	New	--
252S	221E	Space Heater 4	2017	2.5 MMBtu/hr	New	--
253S	222E	Space Heater 5	2017	1 MMBtu/hr	New	--
254S	223E	Space Heater 6	2017	1 MMBtu/hr	New	--
255S	224E	Cooling Tower	2017	7,000 gpm	New	--
256S	225E	Backup Generator	2017	0.2 MMBtu/hr	New	--
257S	226E	Printing Ink	2017	3,430 lb/year	New	--
258S	227E	Case Packing Glue	2017	690,080 lb/year	New	--
259S	228E	Liquid Soap A and B Tanks	2017	79,252 gal	New	--
260S	229E	Liquid Soap A and B Tanks	2017	79,252 gal	New	--
261S	230E	Liquid Soap A and B Tanks	2017	79,252 gal	New	--

1) For Emission Units (or Sources) use the following numbering system: 1S, 2S, 3S, ... or other appropriate designation
 2) For Emission Points use the following numbering system: 1E, 2E, 3E, ... or other appropriate designation.
 3) New, modification, removal
 4) For Control Devices use the following numbering system: 1C, 2C, 3C, ... or other appropriate designation.

Attachment I		
Sources of Minor Significance Emission Units Table (<0.5 tpy)		
Emission Unit ID ¹	Emission Point ID ²	Emission Unit Description
3S-5S	3E-5E	Surfactant Tanks
7S-18S	7E-18E	Surfactant Tanks
19S	19E	Surfactant Bulk Liquid Transfer
20S-31S	20E-31E	Liquid Soap A and B Tanks
33S-37S	33E-37E	Liquid Soap A and B Tanks
38S-118S	38E-118E	Liquid Soap A and B Tanks
259S-261S	228E-230E	Liquid Soap A and B Tanks ¹
119S	119E	Liquid Soap A and B Packing/Filling
161S	131E	Process Tank 1 for Liquid Soap B Process 4
162S	131E	Process Tank 2 for Liquid Soap B Process 4
163S-S	163E-E	Dry Consumer Laundry and Cleaning Products A Tanks
189S	189E	Dry Consumer Laundry and Cleaning Products A Particulate Control 1
190S	190E	Dry Consumer Laundry and Cleaning Products A Particulate Control 2
191S	191E	Dry Consumer Laundry and Cleaning Products A Particulate Control 3
208S	177E	Fuel Tanks
n/a	n/a	Haul Roads
n/a	n/a	Steam Venting System for Sanitization of Equipment for Liquid Soap A and B
n/a	n/a	PM emissions from forming operations - occur inside building, no access to open air (45 CSR 7)
n/a	n/a	PM emissions from transportation operations - occur inside building, no access to open air (45 CSR 7)
n/a	n/a	Printing Ink
n/a	n/a	Case Packing Glue
n/a	n/a	Additional de minimis sources from 45 CSR 13, Table 45-13b

1) Liquid soap tanks are considered de minimis sources, per 45 CSR 13, Table 45-13b, #49.

ATTACHMENT J

Emission Points Data Summary Sheet

Attachment J
EMISSION POINTS SUMMARY SHEET

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (Chemical Processes only)		All Regulated Pollutants - Chemical Name/CAS3 (Speciate VOCs and HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
1E	Upward Vertical Stack	1C	Surfactant Making Process	N/A	N/A	N/A	N/A	NO _x			9.24E-01	2.3	Gas	O - Vendor and AP-42	
								CO			6.86E-01	1.4E-01			
								SO ₂			1.0	7.0E-01			
								VOC			0.9	2.1			
								PM			3.5	11.9			
								PM ₁₀ /PM _{2.5}			3.5	11.9			
								H ₂ SO ₄			2.5	9.8			
2E	Upward Vertical Stack	2C	Surfactant Making Process	N/A	N/A	N/A	N/A	HAP			1.5E-02	5.3E-04	Gas	O - Vendor and AP-42	
								NO _x			0.9	2.3			
								CO			6.9E-01	0.1			
								SO ₂			1.0	0.7			
								VOC			0.9	2.1			
								PM			3.5	9.8			
								PM ₁₀ /PM _{2.5}			3.5	9.8			
3E-18E	Upward Vertical Stack	N/A	Surfactant Tanks	N/A	N/A	N/A	N/A	VOC	2.8E-01	1.2	2.8E-01	1.2	Gas	O - EPA Tanks	
								H ₂ SO ₄	3.5E-04	1.5E-03	3.5E-04	1.5E-03	Gas	O - EPA Tanks	
								HAP	2.1E-02	9.1E-02	2.1E-02	9.1E-02	Gas	EE	
19E	Upward Vertical Stack	N/A	Surfactant Bulk Liquid Transfer	N/A	N/A	N/A	N/A	VOC	1.2E-02	5.2E-02	1.2E-02	5.2E-02	Gas	O - AP-42	
								H ₂ SO ₄	5.5E-04	2.4E-03	5.5E-04	2.4E-03	Gas	O - AP-42	
20E-118E and 228E-230E	Upward Vertical Stack	N/A	Liquid Soap A and B Tanks	N/A	N/A	N/A	N/A	VOC	4.13E-01	2.5	4.13E-01	2.5	Gas	O - EPA Tanks	
119E	Upward Vertical Stack	N/A	Liquid Soap A and B Packing/Filling	N/A	N/A	N/A	N/A	VOC	2.5E-04	1.1E-03	2.5E-04	1.1E-03	Gas	O - AP-42	
120E	Upward Vertical Stack	3C	Premix Process 1	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			3.9E-01	1.69	Gas	EE	
								VOC			2.0E-01	8.59E-01	Gas	EE	
121E	Upward Vertical Stack	4C	Liquid Soap B Process 1	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			8.1E-01	3.6	Gas	EE	
								VOC			3.64E-01	1.6	Gas	EE	
122E	Upward Vertical Stack	5C	Liquid Soap B Process 2	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			8.1E-01	3.6	Gas	EE	
								VOC			4.40E-01	1.9	Gas	EE	
123E	Upward Vertical Stack	6C	Liquid Soap B Process 3	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			5.4E-01	2.4	Gas	EE	
								VOC			3.64E-01	1.6	Gas	EE	
124E	Upward Vertical Stack	7C	Preweigh Group 1	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			1.7E-01	7.51E-01	Gas	EE	
								VOC			--	--	Gas	EE	
125E	Upward Vertical Stack	8C	Preweigh Group 2	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			1.7E-01	7.51E-01	Gas	EE	
								VOC			--	--	Gas	EE	
127E - 130E	Upward Vertical Stack	9C - 12C	Liquid Soap A Process 1-4	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			1.42	6.2	Gas	EE	
								VOC			31.9	27.4	Gas	MB	
131E	Upward Vertical Stack	13C	Liquid Soap B Process 4	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			2.4E-01	1.05	Gas	EE	
								VOC			9.9E-03	4.3E-02	Gas	EE	
126E	Upward Vertical Stack	14C	Hot Mix Tanks for Liquid Soap A, Process 1-4	N/A	N/A	N/A	N/A	PM ₁₀ /PM _{2.5}			1.5E-02	6.5E-02	Gas	O - AP-42	
								SO ₂			1.4E-03	6.2E-03	Gas	O - AP-42	
								NO _x			2.4E-01	1.1	Gas	O - Vendor	
								VOC			1.24	5.4	Gas	MB	
								CO			1.33	5.8	Gas	O - Vendor	
								Lead			1.2E-06	5.2E-06	Gas	O - AP-42	
132E-157E	Upward Vertical Stack	N/A	Dry Consumer Laundry and Cleaning Products A Tanks	N/A	N/A	N/A	N/A	VOC	1.51E-01	6.63E-01	1.5E-01	6.6E-01	Gas	EE	
158E	Upward Vertical Stack	15C	Dry Consumer Laundry and Cleaning Products A Particulate Control 1	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			6.9E-02	3.0E-01	Gas	EE	
159E	Upward Vertical Stack	16C	Dry Consumer Laundry and Cleaning Products A Particulate Control 2	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			4.7E-02	2.1E-01	Gas	EE	
160E	Upward Vertical Stack	17C	Dry Consumer Laundry and Cleaning Products A Particulate Control 3	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.6}			4.5E-02	2.0E-01	Gas	EE	
161E	Upward Vertical Stack	18C	Dry Consumer Laundry and Cleaning Products A Particulate Control 4	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.7}			1.54E+00	6.8	Gas	EE	
162E	Upward Vertical Stack	19C	Dry Consumer Laundry and Cleaning Products A Particulate Control 5	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			1.54E+00	6.8	Gas	EE	
163E	Upward Vertical Stack	20C	Dry Consumer Laundry and Cleaning Products A Particulate Control 6	N/A	N/A	N/A	N/A	PM/PM ₁₀ /PM _{2.5}			5.57E-01	2.4	Gas	EE	
164E	Upward Vertical Stack	N/A	Dry Consumer Laundry and Cleaning Products A Additive 1	N/A	N/A	N/A	N/A	VOC	3.6E-01	1.6	2.0	8.7	Gas	EE	
165E	Upward Vertical Stack	N/A	Boiler 1	N/A	N/A	N/A	N/A	NO _x	4.5	19.8	4.5	19.8	Gas	O - AP-42	
								CO	2.3	10.0	2.3	10.0			
								SO ₂	3.7E-02	0.2	3.7E-02	1.6E-01			
								VOC	2.2E-01	1.0	2.2E-01	9.8E-01			
								PM	2.4E-01	1.0	2.4E-01	1.03			
								PM ₁₀	4.7E-01	2.0	4.7E-01	2.04			
								PM _{2.5}	4.7E-01	2.0	4.7E-01	2.04			
166E	Upward Vertical Stack	N/A	Boiler 2	N/A	N/A	N/A	N/A	H ₂ SO ₄	4.0E-04	0.0	4.0E-04	1.8E-03	Gas	O - AP-42	
								HAP	1.1E-01	0.5	1.1E-01	5.0E-01			
								NO _x	4.5	19.8	4.5	19.8			
								CO	2.3	10.0	2.3	10.0			
								SO ₂	3.7E-02	1.6E-01	3.7E-02	1.6E-01			
								VOC	2.2E-01	1.0	2.2E-01	1.0			
								PM	2.4E-01	1.0	2.4E-01	1.0			
PM ₁₀	4.7E-01	2.0	4.7E-01	2.0											
PM _{2.5}	4.7E-01	2.0	4.7E-01	2.0											
H ₂ SO ₄	4.0E-04	1.8E-03	4.0E-04	1.8E-03											
HAP	1.1E-01	5.0E-01	1.1E-01	5.0E-01											

Attachment J
EMISSION POINTS SUMMARY SHEET

Table 1: Emissions Data

Emission Point ID No. (Must match Emission Units Table & Plot Plan)	Emission Point Type ¹	Emission Unit Vented Through This Point (Must match Emission Units Table & Plot Plan)		Air Pollution Control Device (Must match Emission Units Table & Plot Plan)		Vent Time for Emission Unit (Chemical Processes only)		All Regulated Pollutants - Chemical Name/CAS3 (Speciate VOCs and HAPS)	Maximum Potential Uncontrolled Emissions ⁴		Maximum Potential Controlled Emissions ⁵		Emission Form or Phase (At exit conditions, Solid, Liquid or Gas/Vapor)	Est. Method Used ⁶	Emission Concentration ⁷ (ppmv or mg/m ³)
		ID No.	Source	ID No.	Device Type	Short Term ²	Max (hr/yr)		lb/hr	ton/yr	lb/hr	ton/yr			
167E	Upward Vertical Stack	N/A	Boiler 3	N/A	N/A	N/A	N/A	NO _x	2.3	9.9	2.3	9.9	Gas	O - AP-42	
								CO	1.1	5.0	1.1	5.0			
								SO ₂	1.9E-02	8.1E-02	1.9E-02	8.1E-02			
								VOC	1.1E-01	4.9E-01	1.1E-01	4.9E-01			
								PM	1.2E-01	0.5	1.2E-01	0.5			
								PM ₁₀	2.3E-01	1.0	2.3E-01	1.0			
								PM _{2.5}	2.3E-01	1.0	2.3E-01	1.0			
								H ₂ SO ₄	2.0E-04	8.8E-04	2.0E-04	8.8E-04			
168E	Upward Vertical Stack	N/A	Temporary Boiler	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Gas	N/A	
169E-171E	Upward Vertical Stack	N/A	Cooling Tower	N/A	N/A	N/A	N/A	PM	1.337	5.855	1.337	5.855	Gas	O - AP-42	
								PM ₁₀	6.28E-01	2.750	6.28E-01	2.750			
								PM _{2.5}	5.24E-04	2.30E-03	5.24E-04	2.30E-03			
172E-173E	Upward Vertical Stack	N/A	Fire Pump Engine	N/A	N/A	N/A	N/A	NO _x	3.6	8.9E-01	3.6	8.9E-01	Gas	O - Vendor	
								CO	1.1	2.7E-01	1.1	2.7E-01			
								SO ₂	1.9E-03	4.8E-04	1.9E-03	4.8E-04			
								VOC	1.4E-01	3.4E-02	1.4E-01	3.4E-02			
								PM	1.4E-01	3.4E-02	1.4E-01	3.4E-02			
								PM ₁₀	1.4E-01	3.4E-02	1.4E-01	3.4E-02			
								PM _{2.5}	1.4E-01	3.4E-02	1.4E-01	3.4E-02			
								HAP	2.8E-02	7.0E-03	2.8E-02	7.0E-03			
174E-176E	Upward Vertical Stack	N/A	Backup/Standby Power Generator	N/A	N/A	N/A	N/A	NO _x	10.5	2.6	10.5	2.6	Gas	O - Vendor	
								CO	1.7	4.2E-01	1.7	4.2E-01			
								SO ₂	4.4E-03	1.1E-03	4.37E-03	1.1E-03			
								VOC	1.3E-01	3.3E-02	1.31E-01	3.3E-02			
								PM	1.4E-01	3.6E-02	1.44E-01	3.6E-02			
								PM ₁₀	1.4E-01	3.5E-02	1.38E-01	3.5E-02			
								PM _{2.5}	1.4E-01	3.5E-02	1.38E-01	3.5E-02			
								HAP	6.4E-02	1.6E-02	6.38E-02	1.6E-02			
177E	Upward Vertical Stack	N/A	Fuel Tanks	N/A	N/A	N/A	N/A	VOC	5.2E-04	2.3E-03	5.2E-04	2.3E-03	Gas	O - EPA Tanks	
179E-184E	Upward Vertical Stack	N/A	Warehouse Heater	N/A	N/A	N/A	N/A	NO _x	9.0E-01	3.93	9.0E-01	3.9	Gas	O - AP-42	
								CO	1.51	6.60	1.51	6.60			
								SO ₂	1.1E-02	4.7E-02	1.1E-02	4.7E-02			
								VOC	9.9E-02	4.3E-01	9.9E-02	4.3E-01			
								PM	1.4E-01	6.0E-01	1.4E-01	6.0E-01			
								PM ₁₀	1.4E-01	6.0E-01	1.4E-01	6.0E-01			
								PM _{2.5}	1.4E-01	6.0E-01	1.4E-01	6.0E-01			
								H ₂ SO ₄	1.2E-04	5.1E-04	1.2E-04	5.1E-04			
								HAP	3.4E-02	1.5E-01	3.4E-02	1.5E-01			
								VOC	3.0	13.0	3.0	13.0			
185E	Fugitive	N/A	Water Pretreatment Chemicals	N/A	N/A	N/A	N/A	HAP	9.1E-04	4.0E-03	9.1E-04	4.0E-03	Gas	EE	
186E-190E	Upward Vertical Stack	21C-25C	Railcar Unloading	N/A	N/A	N/A	N/A	PM	2.91	3.50	2.91E-01	3.50E-01	Gas	O - Vendor	
								PM ₁₀	2.91	3.50	2.91E-01	3.50E-01			
								PM _{2.5}	2.91	3.50	2.91E-01	3.50E-01			
								PM	2.91	3.50	2.91	3.5			
191E-214E	Upward Vertical Stack	N/A	Storage Silo	N/A	N/A	N/A	N/A	PM	2.91	3.50	2.91	3.5	Gas	O - Vendor	
								PM ₁₀	2.91	3.50	2.91	3.5			
								PM _{2.5}	2.91	3.50	2.91	3.5			
								PM	7.67E-01	3.36	3.84E-02	1.68E-01			
215E	Upward Vertical Stack	N/A	Plastic Re grind	N/A	N/A	N/A	N/A	PM ₁₀	7.67E-01	3.36	3.84E-02	1.68E-01	Gas	O - Vendor	
216E	Upward Vertical Stack	N/A	Forming VOC	N/A	N/A	N/A	N/A	PM _{2.5}	7.67E-01	3.36	3.84E-02	1.68E-01	Gas	O - Vendor	
217E	Upward Vertical Stack	N/A	Parts Washing/Process Cleaning	N/A	N/A	N/A	N/A	VOC	7.01E-01	3.07	7.01E-01	3.1	Gas	O - Vendor	
218E-223E	Upward Vertical Stack	N/A	Space Heater	N/A	N/A	N/A	N/A	NO _x	8.33E-01	3.7	8.33E-01	3.7	Gas	O - AP-42	
								CO	1.4	6.1	1.4	6.1			
								SO ₂	1.0E-02	4.4E-02	1.00E-02	4.38E-02			
								VOC	9.2E-02	4.0E-01	9.17E-02	4.02E-01			
								PM	1.3E-01	5.5E-01	1.27E-01	5.55E-01			
								PM ₁₀	1.3E-01	5.5E-01	1.27E-01	5.55E-01			
								PM _{2.5}	1.3E-01	5.5E-01	1.27E-01	5.55E-01			
								H ₂ SO ₄	1.1E-04	4.7E-04	1.08E-04	4.75E-04			
								HAP	3.1E-02	1.3E-01	3.15E-02	1.30E-01			
								PM	4.2E-01	1.8E+00	4.21E-01	1.84E+00			
224E	Upward Vertical Stack	N/A	Cooling Tower	N/A	N/A	N/A	N/A	PM ₁₀	2.0E-01	8.7E-01	1.98E-01	8.65E-01	Gas	O-AP-42	
225E	Upward Vertical Stack	N/A	Backup Generator	N/A	N/A	N/A	N/A	PM _{2.5}	1.6E-04	7.2E-04	1.65E-04	7.22E-04	Gas	O - AP-42	
								NO _x	4.17E-01	1.04E-01	4.17E-01	1.04E-01			
								CO	8.33E-01	2.08E-01	8.33E-01	2.08E-01			
								SO ₂	1.18E-04	2.94E-05	1.18E-04	2.94E-05			
								VOC	2.01E-01	5.02E-02	2.01E-01	5.02E-02			
								PM	1.90E-03	4.75E-04	1.90E-03	4.75E-04			
								PM ₁₀	3.88E-03	9.71E-04	3.88E-03	9.71E-04			
								PM _{2.5}	3.88E-03	9.71E-04	3.88E-03	9.71E-04			
								HAP	6.48E-03	1.62E-03	6.48E-03	1.62E-03			
								VOC	8.65E-02	3.79E-01	8.7E-02	3.79E-01			
226E	Fugitive	N/A	Printing Ink	N/A	N/A	N/A	N/A	HAP	3.65E-02	1.60E-01	3.7E-02	1.60E-01	Gas	EE	
227E	Fugitive	N/A	Case Packing Glue	N/A	N/A	N/A	N/A	VOC	4.73E-02	2.07E-01	4.7E-02	2.07E-01	Gas	EE	
								HAP	1.58E-03	6.90E-03	1.6E-03	6.90E-03	Gas	EE	

Attachment J								
EMISSION POINTS SUMMARY SHEET								
Table 2: Release Parameter Data								
Emission Point ID No. (Must match Emission Units Table)	Inner Diameter (ft.)	Exit Gas			Emission Point Elevation (ft)		UTM Coordinates (km)	
		Temp. (°f)	Volumetric Flow ¹ (acfm) at operating conditions	Velocity (fps)	Ground Level (Height above mean sea level)	Stack Height ² (Release height of emissions above ground level)	Northing	Easting
1E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
2E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
3E-18E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20E-118E and 228E-230E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
119E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
120E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
121E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
122E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
123E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
124E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
125E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
127E - 130E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
131E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
126E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
132E-157E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
158E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
159E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
160E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
161E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
162E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
163E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
164E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
165E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
166E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
167E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
168E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
169E-171E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
172E-173E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
174E-176E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
177E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
179E-184E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
185E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
186E-190E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
191E-214E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
215E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
216E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
217E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
218E-223E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
224E	TBD	TBD	TBD	TBD	TBD	TBD	4,366	757
225E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
226E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
227E	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ATTACHMENT L

Emission Unit Data Sheet

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Surfactant Tanks	3S	3E	New Const.	120,762	21.3	45.5	41.6	20,327,735	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90.5	Steam or Hot Water	Dulles Airport, Washington DC	3.50E-03	6.84	197	Does not apply	VOC	109.6	HAP	n/a	EPA
Surfactant Tanks	4S	4E	New Const.	48,345	13.5	45.5	41.6	8,805,475	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	89.6	Steam or Hot Water	Dulles Airport, Washington DC	3.42E-03	7.18	197	Does not apply	VOC	44.6	HAP	44.6	EPA
Surfactant Tanks	5S	5E	New Const.	40,109	13.5	37.7	37.3	9,481,192	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	3.92E-03	7.68	197	Does not apply	VOC	48.3	HAP	48.3	EPA
Surfactant Tanks	6S	6E	New Const.	40,109	13.5	37.7	37.3	1,917,922	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	Ambient	N/A	Dulles Airport, Washington DC	8.62E-01	6.58	46.07	Does not apply	VOC	1722.7	HAP	n/a	EPA
Surfactant Tanks	7S	7E	New Const.	15,125	9.8	26.6	26.5	7,823,046	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	99.5	Steam or Hot Water	Dulles Airport, Washington DC	1.50E-03	8.69	323	Does not apply	VOC	19.0	HAP	4.0	EPA
Surfactant Tanks	8S	8E	New Const.	15,125	9.8	26.6	26.5	7,823,046	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.50E-03	8.69	323	Does not apply	VOC	19.1	HAP	4.0	EPA
Surfactant Tanks	9S	9E	New Const.	15,125	9.8	26.6	26.5	6,841,173	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.50E-03	8.69	323	Does not apply	VOC	17.3	HAP	n/a	EPA
Surfactant Tanks	10S	10E	New Const.	72,475	16.5	45.5	41.6	39,115,231	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	99.5	Steam or Hot Water	Dulles Airport, Washington DC	1.32E-03	8.35	323	Does not apply	VOC	82.6	HAP	20.2	EPA
Surfactant Tanks	11S	11E	New Const.	72,475	16.5	45.5	41.6	39,115,231	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	99.5	Steam or Hot Water	Dulles Airport, Washington DC	1.32E-03	8.35	323	Does not apply	VOC	82.6	HAP	20.2	EPA
Surfactant Tanks	12S	12E	New Const.	72,475	16.5	45.5	41.6	39,115,231	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	78.5	HAP	20.2	EPA
Surfactant Tanks	13S	13E	New Const.	72,475	16.5	45.5	41.6	39,115,231	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	78.5	HAP	20.2	EPA
Surfactant Tanks	14S	14E	New Const.	72,475	16.5	45.5	41.6	34,205,863	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	71.1	HAP	n/a	EPA
Surfactant Tanks	15S	15E	New Const.	72,475	16.5	45.5	41.6	34,205,863	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	71.1	HAP	n/a	EPA
Surfactant Tanks	16S	16E	New Const.	26,083	11.8	31.8	30.6	115,491	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	95	Steam or Hot Water	Dulles Airport, Washington DC	1.50E-03	8.69	323	Does not apply	VOC	1.3	HAP	n/a	EPA
Surfactant Tanks	17S	17E	New Const.	15,125	9.8	26.6	26.5	2,000,000	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.69E-03	15.36	98.09	Does not apply	H2SO4	3.0	HAP	n/a	EPA
Surfactant Tanks	18S	18E	New Const.	15,125	9.8	26.6	26.5	150,000	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.69E-03	15.36	98.09	Does not apply	VOC	0.6	HAP	n/a	EPA
Liquid Soap A and B Tanks	20S	20E	New Const.	79,252	17.1	45.5	30.1	5,596,534	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.32E-03	8.35	323	Does not apply	VOC	30.4	HAP	2.9	EPA
Liquid Soap A and B Tanks	259S	228E	New Const.	79,252	17.1	45.5	30.1	5,596,534	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.32E-03	8.35	323	Does not apply	VOC	30.4	HAP	2.9	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Liquid Soap A and B Tanks	21S	21E	New Const.	79,252	17.1	45.5	30.1	10,347,158	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	35.6	HAP	5.3	EPA
Liquid Soap A and B Tanks	260S	229E	New Const.	79,252	17.1	45.5	30.1	10,347,158	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	35.6	HAP	5.3	EPA
Liquid Soap A and B Tanks	22S	22E	New Const.	79,252	17.1	45.5	30.1	7,578,877	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	31.6	HAP	n/a	EPA
Liquid Soap A and B Tanks	261S	230E	New Const.	79,252	17.1	45.5	30.1	7,578,877	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	31.6	HAP	0.0	EPA
Liquid Soap A and B Tanks	23S	23E	New Const.	7,925	7.9	21.0	13.9	242,549	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	2.1	HAP	2.1	EPA
Liquid Soap A and B Tanks	24S	24E	New Const.	7,925	7.9	21.0	13.9	191,250	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	2.03E-01	9.16	36	Does not apply	VOC	--	HAP	37.0	EPA
Liquid Soap A and B Tanks	25S	25E	New Const.	39,626	13.5	36.1	23.8	3,835,496	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	9.28E-17	8.77	343	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	26S	26E	New Const.	15,850	9.8	26.6	17.5	571,411	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	n/a	7.51	503	Does not apply	VOC	19.8	HAP	n/a	EPA
Liquid Soap A and B Tanks	27S	27E	New Const.	39,626	13.5	36.1	23.8	1,931,021	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.60E-03	8.97	388	Does not apply	VOC	1.2	HAP	n/a	EPA
Liquid Soap A and B Tanks	28S	28E	New Const.	26,417	11.8	31.8	21.0	1,676,970	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.93E-04	6.78	270	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	29S	29E	New Const.	15,850	9.8	26.6	17.5	866,411	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	1.16E-07	6.77	242	Does not apply	VOC	0.8	HAP	n/a	EPA
Liquid Soap A and B Tanks	30S	30E	New Const.	26,417	11.8	31.8	21.0	1,371,738	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	7.25E-05	8.35	503	Does not apply	VOC	248.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	31S	31E	New Const.	15,850	9.8	26.6	17.5	1,409,592	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	3.30E-02	8.35	503	Does not apply	VOC	1304.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	32S	32E	New Const.	15,850	9.8	26.6	17.5	200,180	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	113	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	7.93	368	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	33S	33E	New Const.	7,925	7.9	21.0	13.9	235,048	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	4.83E-05	10.52	92	Does not apply	VOC	576.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	34S	34E	New Const.	7,925	9.0	23.4	15.4	121,837	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	Ambient	Steam or Hot Water	Dulles Airport, Washington DC	5.00E-01	8.71	200	Does not apply	VOC	376.0	HAP	1.9	EPA
Liquid Soap A and B Tanks	35S	35E	New Const.	7,925	9.0	23.4	15.4	39,477	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	Ambient	Steam or Hot Water	Dulles Airport, Washington DC	5.00E-01	8.71	200	Does not apply	VOC	356.0	HAP	1.8	EPA
Liquid Soap A and B Tanks	36S	36E	New Const.	7,925	9.0	23.4	15.4	31,870	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	Ambient	Steam or Hot Water	Dulles Airport, Washington DC	5.00E-01	8.71	200	Does not apply	VOC	294.0	HAP	1.5	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Liquid Soap A and B Tanks	37S	37E	New Const.	7,925	9.0	23.4	15.4	6,293	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	Ambient	Steam or Hot Water	Dulles Airport, Washington DC	5.00E-01	8.71	200	Does not apply	VOC	4.0	HAP	0.0	EPA
Liquid Soap A and B Tanks	50S	50E	New Const.	7,925	9.0	23.4	15.4	580,258	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	0.7	HAP	n/a	EPA
Liquid Soap A and B Tanks	56S	56E	New Const.	7,275	9.0	23.4	15.4	239,544	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.59E-03	9.09	76	Does not apply	VOC	0.9	HAP	n/a	EPA
Liquid Soap A and B Tanks	53S	53E	New Const.	7,925	9.0	23.4	15.4	93,935	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	#REF!	HAP	n/a	EPA
Liquid Soap A and B Tanks	38S	38E	New Const.	396	3.3	6	3.96	37,808	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	8.50	503	Does not apply	VOC	169.2	HAP	n/a	EPA
Liquid Soap A and B Tanks	40S	40E	New Const.	396	3.3	6	3.96	16,874	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	5.61E-02	12.02	292	Does not apply	VOC	5.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	41S	41E	New Const.	396	3.3	6	3.96	12,883	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	2.90E-10	10.01	205	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	42S	42E	New Const.	396	3.3	6	3.96	8,007	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	8.96	233	Does not apply	VOC	35.2	HAP	n/a	EPA
Liquid Soap A and B Tanks	43S	43E	New Const.	396	3.3	6	3.96	147,994	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	7.93	503	Does not apply	VOC	343.6	HAP	n/a	EPA
Liquid Soap A and B Tanks	44S	44E	New Const.	396	3.3	6	3.96	11,983	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	8.68	503	Does not apply	VOC	113.8	HAP	n/a	EPA
Liquid Soap A and B Tanks	45S	45E	New Const.	396	3.3	6	3.96	121,569	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.82E-03	8.71	108	Does not apply	VOC	0.1	HAP	n/a	EPA
Liquid Soap A and B Tanks	46S	46E	New Const.	396	3.9	6	3.96	14,581	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	4.50E-01	8.31	503	Does not apply	VOC	76.6	HAP	n/a	EPA
Liquid Soap A and B Tanks	47S	47E	New Const.	396	3.3	6	3.96	8,418	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	8.35	503	Does not apply	VOC	79.9	HAP	n/a	EPA
Liquid Soap A and B Tanks	51S	51E	New Const.	396	3.3	6	3.96	n/a	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	n/a	n/a	n/a	Does not apply	VOC	--	HAP	n/a	EPA
Liquid Soap A and B Tanks	52S	52E	New Const.	396	3.3	6	3.96	990	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	54S	54E	New Const.	660	3.9	6	3.96	267,217	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.24E-03	8.35	323	Does not apply	VOC	0.6	HAP	n/a	EPA
Liquid Soap A and B Tanks	55S	55E	New Const.	396	3.3	6	3.96	75	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	8.50	503	Does not apply	VOC	0.7	HAP	n/a	EPA
Liquid Soap A and B Tanks	57S	57E	New Const.	1,057	3.9	6	3.96	24,591	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.59E-03	9.09	76	Does not apply	VOC	0.1	HAP	n/a	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Liquid Soap A and B Tanks	59S	59E	New Const.	396	3.3	6	3.96	2,260	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	1.59E-03	9.09	76	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	60S	60E	New Const.	132	2.3	6	3.96	1,953	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	5.80E-04	8.41	138	Does not apply	VOC	0.0	HAP	0.0	EPA
Liquid Soap A and B Tanks	61S	61E	New Const.	396	3.9	6	3.96	175,632	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	8.13E-01	8.31	503	Does not apply	VOC	430.7	HAP	n/a	EPA
Liquid Soap A and B Tanks	63S	63E	New Const.	396	3.3	6	3.96	38,430	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	3.40E-01	7.59	503	Does not apply	VOC	71.1	HAP	n/a	EPA
Liquid Soap A and B Tanks	64S	64E	New Const.	396	3.3	8.58	5.6628	15,482	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	8.7	HAP	0.0	EPA
Liquid Soap A and B Tanks	65S	65E	New Const.	396	3.3	8.58	5.6628	14,619	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	8.2	HAP	0.0	EPA
Liquid Soap A and B Tanks	66S	66E	New Const.	396	3.3	8.58	5.6628	24,900	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	11.6	HAP	0.1	EPA
Liquid Soap A and B Tanks	67S	67E	New Const.	396	3.3	8.58	5.6628	48,605	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	13.8	HAP	0.1	EPA
Liquid Soap A and B Tanks	68S	68E	New Const.	396	3.3	8.58	5.6628	26,366	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	11.7	HAP	0.1	EPA
Liquid Soap A and B Tanks	69S	69E	New Const.	396	3.3	8.58	5.6628	13,652	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	7.6	HAP	0.0	EPA
Liquid Soap A and B Tanks	70S	70E	New Const.	396	3.3	8.58	5.6628	6,427	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	3.6	HAP	0.0	EPA
Liquid Soap A and B Tanks	71S	71E	New Const.	396	3.3	8.58	5.6628	12,577	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	7.0	HAP	0.0	EPA
Liquid Soap A and B Tanks	72S	72E	New Const.	396	3.3	8.58	5.6628	31,508	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	12.2	HAP	0.1	EPA
Liquid Soap A and B Tanks	73S	73E	New Const.	396	3.3	8.58	5.6628	15,126	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	8.5	HAP	0.0	EPA
Liquid Soap A and B Tanks	74S	74E	New Const.	396	3.3	8.58	5.6628	64,637	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	15.3	HAP	0.1	EPA
Liquid Soap A and B Tanks	75S	75E	New Const.	396	3.3	8.58	5.6628	18,314	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	10.3	HAP	0.1	EPA
Liquid Soap A and B Tanks	76S	76E	New Const.	396	3.3	8.58	5.6628	29,347	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	12.0	HAP	0.1	EPA
Liquid Soap A and B Tanks	77S	77E	New Const.	396	3.3	8.58	5.6628	43,353	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	74	Steam or Hot Water	Dulles Airport, Washington DC	1.20E-01	8.71	200	Does not apply	VOC	13.3	HAP	0.1	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Liquid Soap A and B Tanks	87S	87E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	88S	88E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	89S	89E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	90S	90E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	91S	91E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	92S	92E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	93S	93E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	94S	94E	New Const.	1,585	5.3	13.78	9.0948	3,799,073	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	3.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	94bS	94bE	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	2.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	94cS	94cE	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	1.8	HAP	n/a	EPA
Liquid Soap A and B Tanks	94dS	94dE	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	1.8	HAP	n/a	EPA
Liquid Soap A and B Tanks	94eS	94eE	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.10E-03	8.71	200	Does not apply	VOC	1.8	HAP	n/a	EPA
Liquid Soap A and B Tanks	95S	95E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.6	HAP	n/a	EPA
Liquid Soap A and B Tanks	96S	96E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	97S	97E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	98S	98E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	99S	99E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	100S	100E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Liquid Soap A and B Tanks	101S	101E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	102S	102E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	103S	103E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	104S	104E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	105S	105E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	106S	106E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	107S	107E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	108S	108E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	109S	109E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	110S	110E	New Const.	1,585	5.3	13.78	9.0948	3,973,279	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.5	HAP	n/a	EPA
Liquid Soap A and B Tanks	111S	111E	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.3	HAP	n/a	EPA
Liquid Soap A and B Tanks	112S	112E	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.3	HAP	n/a	EPA
Liquid Soap A and B Tanks	113S	113E	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.3	HAP	n/a	EPA
Liquid Soap A and B Tanks	114S	114E	New Const.	1,585	5.3	13.78	9.0948	2,048,433	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.3	HAP	n/a	EPA
Liquid Soap A and B Tanks	115S	115E	New Const.	1,585	5.3	13.78	9.0948	7,786	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	116S	116E	New Const.	1,585	5.3	13.78	9.0948	7,786	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	117S	117E	New Const.	1,585	5.3	13.78	9.0948	7,786	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.0	HAP	n/a	EPA
Liquid Soap A and B Tanks	118S	118E	New Const.	1,585	5.3	13.78	9.0948	7,786	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	90	Steam or Hot Water	Dulles Airport, Washington DC	1.71E-04	8.71	200	Does not apply	VOC	0.0	HAP	n/a	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Dry Consumer Laundry and Cleaning Products A Tanks	163S	132E	New Const.	42,879	13.5	36.1	23.8	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	n/a	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	164S	133E	New Const.	37,641	13.5	36.1	23.8	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	n/a	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	165S	134E	New Const.	6,809	7.9	18.4	12.1	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	3.1	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	166S	135E	New Const.	396	2.5	6.5	4.29	78,893	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	47.1	HAP	2.36E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	167S	136E	New Const.	396	2.5	6.5	4.29	78,893	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	47.1	HAP	2.36E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	168S	137E	New Const.	396	2.5	6.5	4.29	78,893	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	47.1	HAP	2.36E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	169S	138E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	170S	139E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	171S	140E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	172S	141E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	173S	142E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	174S	143E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	175S	144E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	176S	145E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	177S	146E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	178S	147E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA

Attachment L																							
EMISSIONS UNIT DATA SHEET - STORAGE TANKS																							
1	3	4	6	8	9A	9B	10A	13A	18	20	22A	22B	22C	27	38B	39C	39D	40	41				
Bulk Storage Area Name	Tank Equipment Identification Number	Emission Point Identification Number	Type of Change	Capacity (gallons)	Internal Diameter (ft)	Internal Height (ft)	Max Liquid Height	Max Annual Throughput (gal/yr)	Type of Tank	Shell Color/Roof Color	Are the Tanks Heated?	Provide the operating temperature (F)	Describe how heat is provided to the tank	City/State for TANKS calculations	Max Vapor Pressure (psi)	Liquid Density (lb/gal)	Liquid Molecular Weight (lb/lb-mol)	Emission Control Devices	Material Classification	Annual Loss (lb/year)	Material Classification	Annual Loss (lb/year)	Estimation Method
Dry Consumer Laundry and Cleaning Products A Tanks	179S	148E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	180S	149E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	181S	150E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	182S	151E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	183S	152E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	184S	153E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	185S	154E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	186S	155E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	187S	156E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Dry Consumer Laundry and Cleaning Products A Tanks	188S	157E	New Const.	181	2.3	6.0	3.96	39,447	Vertical Fixed Roof Aboveground	Grey/Grey	Yes	77	Steam or Hot Water	Dulles Airport, Washington DC	0.50	8.81	200	Does not apply	VOC	28.6	HAP	1.43E-01	EPA
Fuel Tanks	208S	177E	New Const.	5,162	8.0	20.8	13.73	70,000	Vertical Fixed Roof Aboveground	Grey/Grey	No	Ambient	N/A	Dulles Airport, Washington DC	2.20E-02	7.1	130	Does not apply	VOC	4.6	HAP	n/a	EPA

ATTACHMENT N

Supporting Emission Calculations

Table N-0a. Emissions Summary

Business Unit/Process	Potential to Emit (tpy)								
	PM	PM ₁₀	PM _{2.5}	VOC	HAPs	NO _x	CO	SO ₂	H ₂ SO ₄
Chemicals	21.7	21.7	21.7	5.4	9.2E-02	4.7	2.9E-01	1.4	17.6
Tanks	--	--	--	1.2	9.1E-02	--	--	--	1.5E-03
Loading	--	--	2.41E-03	5.2E-02	--	--	--	--	2.4E-03
SO ₂ Scrubber	21.7	21.7	21.7	4.1	1.1E-03	4.7	2.9E-01	1.4	17.6
Soap Making A & B	20.0	20.0	20.0	43.9	3.1E-02	1.1	5.8	6.2E-03	0.0
Tanks	--	--	--	2.5	3.1E-02	--	--	--	--
RTO	6.5E-02	6.5E-02	6.5E-02	8.0	5.2E-06	1.1	5.8	6.2E-03	--
Dust Control	20.0	20.0	20.0	33.4	--	--	--	--	--
Packing/Filling	--	--	--	1.11E-03	--	--	--	--	--
Dry Consumer Products A	16.7	16.7	16.7	9.3	3.3E-03	0.0	0.0	0.0	0.0
Tanks	--	--	--	0.7	3.3E-03	--	--	--	--
Converting	16.7	16.7	16.7	--	--	--	--	--	--
Additive	--	--	--	8.7	--	--	--	--	--
Utilities	9.1	8.5	5.8	16.0	1.4	56.9	32.4	4.6E-01	4.9E-03
Boilers	2.6	5.1	5.1	2.4	1.26	49.4	25.1	4.1E-01	4.4E-03
Engines	7.0E-02	6.9E-02	6.9E-02	6.7E-02	2.3E-02	3.5	0.7	1.6E-03	--
Cooling Towers	5.9	2.8	2.30E-03	--	--	--	--	--	--
Heaters	6.0E-01	6.0E-01	6.0E-01	4.3E-01	1.5E-01	3.9	6.6	4.7E-02	5.1E-04
Fuel Tanks	--	--	--	2.3E-03	--	--	--	--	--
Water Treatment Chemicals	--	--	--	13.0	4.0E-03	--	--	--	--
Auxiliary Activities	1.1E+01	6.3E+00	4.8E+00	10.11	2.99E-01	3.8E+00	6.3E+00	4.4E-02	4.7E-04
Glue Usage	--	--	--	2.07E-01	6.90E-03	--	--	--	--
Printing	--	--	--	3.79E-01	1.60E-01	--	--	--	--
Paved Roads	4.25	0.85	0.21	--	--	--	--	--	--
Plastics Molding	6.42	5.44	4.57	9.52	1.3E-01	3.75	6.34	4.4E-02	4.7E-04
Total	78.2	73.2	69.0	84.7	1.9	66.4	44.8	1.9	17.6

Table N-0b. HAP - Emissions Summary

HAP Emissions	Potential to Emit											
	Hexane	Ethylene Oxide	Formaldehyde	Vinyl Acetate	1,4 Dioxane	Hydrogen Chloride	Acetophenone	Propylene	Chloroform	Lead	Glycol Ether	Other Combustion HAP ¹
Total (tpy)	1.46	4.7E-02	6.0E-02	6.9E-03	5.3E-02	1.8E-02	6.3E-05	9.2E-03	4.0E-03	4.1E-04	1.7E-01	2.1E-02

1. Includes: 2-methylnaphthalene, 3-methylchloranthrene, 7,12-Dimethylbenz(a)anthracene, acetaldehyde, acenaphthene, acenaphthylene, acrolein, anthracene, benz(a)anthracene, benzene, benzo(a)pyrene, bezo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dichlorobenzene, ethylbenzene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, OCDD, PAH, phenanthrene, pyrene, toluene, 1,1,1-Trichloroethane, o-xylene, xylenes, arsenic, antimony, beryllium, cadmium, chloride, chromium, chromium VI, cobalt, fluoride, manganese, mercury, nickel, phosphorus, selenium.

Table N-5. Liquid Soap A and B Making - Outdoor Tank Emissions

EU ID	Description	Throughput ¹ (gal/yr)	Vapor Pressure (psia)	Molecular Weight (lb/lb-mol)	Liquid Density (lb/gal)	Bulk Liquid Temperature ² (°F)	Tank Capacity ¹ (gal)	VOC Potential to Emit ²		HAP Potential to Emit ³		
								(lb/hr)	(tpy)	HAP Name	(lb/hr)	(tpy)
20	Raw Material	5,596,534	1.32E-03	323	8.35	113	79,252	3.5E-03	1.5E-02	1, 4 Dioxane	3.3E-04	1.4E-03
259	Raw Material	5,596,534	1.32E-03	323	8.35	113	79,252	3.5E-03	1.5E-02	1, 4 Dioxane	3.3E-04	1.4E-03
21	Raw Material	10,347,158	1.24E-03	323	8.35	113	79,252	4.1E-03	1.8E-02	1, 4 Dioxane	6.1E-04	2.7E-03
260	Raw Material	10,347,158	1.24E-03	323	8.35	113	79,252	4.1E-03	1.8E-02	1, 4 Dioxane	6.1E-04	2.7E-03
22	Raw Material	7,578,877	1.24E-03	323	8.35	113	79,252	3.6E-03	1.6E-02	--	--	--
261	Raw Material	7,578,877	1.24E-03	323	8.35	113	79,252	3.6E-03	1.6E-02	--	--	--
23	Raw Material	242,549	1.24E-03	323	8.35	113	7,925	2.4E-04	1.1E-03	Ethylene Oxide	2.4E-04	1.1E-03
24	Raw Material	191,250	2.03E-01	36	9.16	113	7,925	--	--	Hydrogen Chloride	4.2E-03	1.8E-02
25	Raw Material	3,835,496	9.28E-17	343	8.77	113	39,626	3.5E-03	1.5E-02	--	--	--
26	Raw Material	571,411	n/a	503	7.51	113	15,850	n/a	0.0E+00	--	--	--
27	Raw Material	1,931,021	1.60E-03	388	8.97	113	39,626	2.3E-03	9.9E-03	--	--	--
28	Raw Material	1,676,970	1.93E-04	270	6.78	113	26,417	1.4E-04	6.0E-04	--	--	--
29	Raw Material	866,411	1.16E-07	242	6.77	113	15,850	4.2E-08	1.8E-07	--	--	--
30	Raw Material	1,371,738	7.25E-05	503	8.35	113	26,417	9.2E-05	4.0E-04	--	--	--
31	Raw Material	1,409,592	3.30E-02	503	8.35	113	15,850	2.8E-02	1.2E-01	--	--	--
32	Raw Material	200,180	8.13E-01	368	7.93	113	15,850	n/a	6.5E-01	--	--	--
33	Raw Material	235,048	4.83E-05	92	10.52	77	7,925	2.8E-06	1.2E-05	--	--	--
34	Raw Material	121,837	5.00E-01	200	8.71	Ambient	7,925	6.6E-02	2.9E-01	See Note 4	3.3E-04	9.4E-04
35	Raw Material	39,477	5.00E-01	200	8.71	Ambient	7,925	4.3E-02	1.9E-01	See Note 4	2.1E-04	8.9E-04
36	Raw Material	31,870	5.00E-01	200	8.71	Ambient	7,925	4.1E-02	1.8E-01	See Note 4	2.0E-04	7.4E-04
37	Raw Material	6,293	5.00E-01	200	8.71	Ambient	7,925	3.4E-02	1.5E-01	See Note 4	1.7E-04	1.0E-05
50	Raw Material	580,258	1.24E-03	323	8.35	77	7,925	4.6E-04	2.0E-03	--	--	--
56	Raw Material	239,544	1.59E-03	76	9.09	77	7,275	7.6E-05	3.4E-04	--	--	--
53	Raw Material	93,935	1.24E-03	323	8.35	77	7,925	1.0E-04	4.4E-04	--	--	--
Total								2.40E-01	1.70	--	7.3E-03	3.0E-02

1. Tank capacities and throughputs per Procter and Gamble design data sheets.

2. Emissions calculated per AP-42, Section 7.1 (*Organic Liquid Storage Tanks*) and Trinity calculations spreadsheets. Specifically, equations contained in Section 7.1.3.1 (*Total Losses from Fixed Roof Tanks*) are utilized.

3. HAP Emissions from perfumes assumed to be 0.5% of VOC emissions. Trace amount of byproduct HAP in surfactant.

4. Based upon assessment of raw material composition, HAP speciation determined to be 99% glycol ether and 1% acetophenone.

Table N-6. Liquid Soap A and B Making - Indoor Tank Emissions

EU ID	Description	Throughput ¹ (gal/yr)	Vapor Pressure ² (psia)	Molecular Weight ² (lb/lb-mol)	Liquid Density ² (lb/gal)	Bulk Liquid Temperature ¹ (°F)	Tank Capacity ¹ (gal)	VOC Potential to Emit ^{2,3}		HAP Potential to Emit ⁴	
								(lb/hr)	(tpy)	(lb/hr)	(tpy)
38	Raw Material	37,808	8.13E-01	503	8.50	77	396	1.9E-02	8.46E-02	--	--
40	Raw Material	16,874	5.61E-02	292	12.02	77	396	6.2E-04	2.73E-03	--	--
41	Raw Material	12,883	2.90E-10	205	10.01	77	396	2.0E-12	8.89E-12	--	--
42	Raw Material	8,007	8.13E-01	233	8.96	77	396	4.0E-03	1.76E-02	--	--
43	Raw Material	147,994	8.13E-01	503	7.93	77	396	3.9E-02	1.72E-01	--	--
44	Raw Material	11,983	8.13E-01	503	8.68	77	396	1.3E-02	5.69E-02	--	--
45	Raw Material	121,569	1.82E-03	108	8.71	77	396	1.7E-05	7.25E-05	--	--
46	Raw Material	14,581	4.50E-01	503	8.31	77	396	8.7E-03	3.83E-02	--	--
47	Raw Material	8,418	8.13E-01	503	8.35	77	396	9.1E-03	4.00E-02	--	--
51	Raw Material	n/a	n/a	n/a	n/a	77	396	n/a	n/a	--	--
52	Raw Material	990	1.24E-03	323	8.35	77	396	1.1E-06	4.6E-06	--	--
54	Raw Material	267,217	1.24E-03	323	8.35	77	660	6.5E-05	2.8E-04	--	--
55	Raw Material	75	8.13E-01	503	8.50	77	396	8.1E-05	3.5E-04	--	--
57	Raw Material	24,591	1.59E-03	76	9.09	77	1,057	6.4E-06	2.8E-05	--	--
59	Raw Material	2,260	1.59E-03	76	9.09	77	396	7.2E-07	3.2E-06	--	--
60	Raw Material	1,953	5.80E-04	138	8.41	77	132	4.1E-07	1.8E-06	4.1E-07	1.8E-06
61	Raw Material	175,632	8.13E-01	503	8.31	77	396	4.9E-02	2.2E-01	--	--
63	Raw Material	38,430	3.40E-01	503	7.59	77	396	8.1E-03	3.6E-02	--	--
64	Raw Material	15,482	0.12	200	8.71	74	396	9.9E-04	4.3E-03	4.9E-06	2.2E-05
65	Raw Material	14,619	0.12	200	8.71	74	396	9.3E-04	4.1E-03	4.7E-06	2.0E-05
66	Raw Material	24,900	0.12	200	8.71	74	396	1.3E-03	5.8E-03	6.6E-06	2.9E-05
67	Raw Material	48,605	0.12	200	8.71	74	396	1.6E-03	6.9E-03	7.9E-06	3.4E-05
68	Raw Material	26,366	0.12	200	8.71	74	396	1.3E-03	5.8E-03	6.7E-06	2.9E-05
69	Raw Material	13,652	0.12	200	8.71	74	396	8.7E-04	3.8E-03	4.4E-06	1.9E-05
70	Raw Material	6,427	0.12	200	8.71	74	396	4.1E-04	1.8E-03	2.1E-06	9.0E-06
71	Raw Material	12,577	0.12	200	8.71	74	396	8.0E-04	3.5E-03	4.0E-06	1.8E-05
72	Raw Material	31,508	0.12	200	8.71	74	396	1.4E-03	6.1E-03	6.9E-06	3.0E-05
73	Raw Material	15,126	0.12	200	8.71	74	396	9.7E-04	4.2E-03	4.8E-06	2.1E-05
74	Raw Material	64,637	0.12	200	8.71	74	396	1.7E-03	7.6E-03	8.7E-06	3.8E-05
75	Raw Material	18,314	0.12	200	8.71	74	396	1.2E-03	5.1E-03	5.9E-06	2.6E-05
76	Raw Material	29,347	0.12	200	8.71	74	396	1.4E-03	6.0E-03	6.8E-06	3.0E-05
77	Raw Material	43,353	0.12	200	8.71	74	396	1.5E-03	6.6E-03	7.6E-06	3.3E-05
87	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	4.0E-04	1.7E-03	--	--
88	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
89	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
90	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
91	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
92	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
93	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
94	Finished Product	3,799,073	0.0011	200	8.71	90	1,585	3.4E-04	1.5E-03	--	--
94b	Finished Product	2,048,433	0.0011	200	8.71	90	1,585	2.3E-04	1.0E-03	--	--
94c	Finished Product	2,048,433	0.0011	200	8.71	90	1,585	2.0E-04	8.8E-04	--	--
94d	Finished Product	2,048,433	0.0011	200	8.71	90	1,585	2.0E-04	8.8E-04	--	--
94e	Finished Product	2,048,433	0.0011	200	8.71	90	1,585	2.0E-04	8.8E-04	--	--
95	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	6.5E-05	2.8E-04	--	--
96	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
97	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
98	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
99	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
100	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
101	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
102	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
103	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
104	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
105	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
106	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
107	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
108	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
109	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
110	Finished Product	3,973,279	0.0002	200	8.71	90	1,585	5.5E-05	2.4E-04	--	--
111	Finished Product	2,048,433	0.0002	200	8.71	90	1,585	3.6E-05	1.6E-04	--	--
112	Finished Product	2,048,433	0.0002	200	8.71	90	1,585	3.1E-05	1.4E-04	--	--
113	Finished Product	2,048,433	0.0002	200	8.71	90	1,585	3.1E-05	1.4E-04	--	--
114	Finished Product	2,048,433	0.0002	200	8.71	90	1,585	3.1E-05	1.4E-04	--	--
115	Finished Product	7,786	0.0002	200	8.71	90	1,585	6.9E-07	3.0E-06	--	--
116	Finished Product	7,786	0.0002	200	8.71	90	1,585	5.8E-07	2.5E-06	--	--
117	Finished Product	7,786	0.0002	200	8.71	90	1,585	5.8E-07	2.5E-06	--	--
118	Finished Product	7,786	0.0002	200	8.71	90	1,585	5.8E-07	2.5E-06	--	--
Total								0.17	0.76	8.2E-05	3.6E-04

1. Tank capacities and throughputs per Procter and Gamble design data sheets.
2. Finished product tanks assumed to contain a fractional amount of volatile materials.
3. Emissions calculated per AP-42, Section 7.1 (Organic Liquid Storage Tanks) and Trinity calculations spreadsheets. Specifically, equations contained in Section 7.1.3.1 (Total Losses from Fixed Roof Tanks) are utilized.
4. HAP Emissions from perfumes assumed to be 0.5% of VOC emissions. Based upon assessment of raw material composition, HAP speciation determined to be 99% glycol ether and 1% acetophenone.

ATTACHMENT

Strike-through Permit

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
1S	1E	Surfactant Making Process	2017	3,000 gal/hr	1C
2S	2E	Surfactant Making Process	2017	3,000 gal/hr	2C
3S	3E	Surfactant Tank	2017	120,762 gal	N
4S	4E	Surfactant Tank	2017	48,345 gal	N
5S	5E	Surfactant Tank	2017	40,109 gal	N
6S	6E	Surfactant Tank	2017	40,109 gal	N
7S	7E	Surfactant Tank	2017	15,125 gal	N
8S	8E	Surfactant Tank	2017	15,125 gal	N
9S	9E	Surfactant Tank	2017	15,125 gal	N
10S	10E	Surfactant Tank	2017	72,475 gal	N
11S	11E	Surfactant Tank	2017	72,475 gal	N
12S	12E	Surfactant Tank	2017	72,475 gal	N
13S	13E	Surfactant Tank	2017	72,475 gal	N
14S	14E	Surfactant Tank	2017	72,475 gal	N
15S	15E	Surfactant Tank	2017	72,475 gal	N
16S	16E	Surfactant Tank	2017	26,083 gal	N
17S	17E	Surfactant Tank	2017	15,125 gal	N
18S	18E	Surfactant Tank	2017	15,125 gal	N
19S	19E	Surfactant Bulk Liquid Transfer	2017	17,150,000 gal/yr	N
20S	20E	Liquid Soap A & B Tank	2017	79,25239,626 gal	N
21S	21E	Liquid Soap A & B Tank	2017	79,25239,626 gal	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

22S	22E	Liquid Soap A & B Tank	2017	79,252 39,626 gal	N
23S	23E	Liquid Soap A & B Tank	2017	7,925 gal	N
24S	24E	Liquid Soap A & B Tank	2017	7,925 gal	N
25S	25E	Liquid Soap A & B Tank	2017	39,626 gal	N
26S	26E	Liquid Soap A & B Tank	2017	15,850 gal	N
27S	27E	Liquid Soap A & B Tank	2017	39,626 gal	N
28S	28E	Liquid Soap A & B Tank	2017	26,417 gal	N
29S	29E	Liquid Soap A & B Tank	2017	15,850 gal	N
30S	30E	Liquid Soap A & B Tank	2017	26,417 gal	N
31S	31E	Liquid Soap A & B Tank	2017	15,850 gal	N

32S	32E	Liquid Soap A & B Tank	2017	15,850 gal	N
33S	33E	Liquid Soap A & B Tank	2017	7,925 gal	N
34S	34E	Liquid Soap A & B Tank	2017	7,925 gal	N
35S	35E	Liquid Soap A & B Tank	2017	7,925 gal	N
36S	36E	Liquid Soap A & B Tank	2017	7,925 gal	N
37S	37E	Liquid Soap A & B Tank	2017	7,925 gal	N
38S	38E	Liquid Soap A & B Tank	2017	396 gal	N
40S	40E	Liquid Soap A & B Tank	2017	396 gal	N
41S	41E	Liquid Soap A & B Tank	2017	396 gal	N
42S	42E	Liquid Soap A & B Tank	2017	396 gal	N
43S	43E	Liquid Soap A & B Tank	2017	396 gal	N
44S	44E	Liquid Soap A & B Tank	2017	396 gal	N
45S	45E	Liquid Soap A & B Tank	2017	396 gal	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

46S	46E	Liquid Soap A & B Tank	2017	396 gal	N
47S	47E	Liquid Soap A & B Tank	2017	396 gal	N
50S	50E	Liquid Soap A & B Tank	2017	7,925 gal	N
51S	51E	Liquid Soap A & B Tank	2017	396 gal	N
52S	52E	Liquid Soap A & B Tank	2017	396 gal	N
53S	53E	Liquid Soap A & B Tank	2017	7,925 gal	N
54S	54E	Liquid Soap A & B Tank	2017	660 gal	N
55S	55E	Liquid Soap A & B Tank	2017	396 gal	N
56S	56E	Liquid Soap A & B Tank	2017	7,275 gal	N
57S	57E	Liquid Soap A & B Tank	2017	1,057 gal	N
59S	59E	Liquid Soap A & B Tank	2017	396 gal	N
60S	60E	Liquid Soap A & B Tank	2017	132 gal	N
61S	61E	Liquid Soap A & B Tank	2017	396 gal	N
63S	63E	Liquid Soap A & B Tank	2017	396 gal	N
64S	64E	Liquid Soap A & B Tank	2017	396 gal	N
65S	65E	Liquid Soap A & B Tank	2017	396 gal	N
66S	66E	Liquid Soap A & B Tank	2017	396 gal	N
67S	67E	Liquid Soap A & B Tank	2017	396 gal	N
68S	68E	Liquid Soap A & B Tank	2017	396 gal	N
69S	69E	Liquid Soap A & B Tank	2017	396 gal	N

70S	70E	Liquid Soap A & B Tank	2017	396 gal	N
71S	71E	Liquid Soap A & B Tank	2017	396 gal	N
72S	72E	Liquid Soap A & B Tank	2017	396 gal	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

73S	73E	Liquid Soap A & B Tank	2017	396 gal	N
74S	74E	Liquid Soap A & B Tank	2017	396 gal	N
75S	75E	Liquid Soap A & B Tank	2017	396 gal	N
76S	76E	Liquid Soap A & B Tank	2017	396 gal	N
77S	77E	Liquid Soap A & B Tank	2017	396 gal	N
87S	87E	Liquid Soap A & B Tank	2017	1,585 gal	N
88S	88E	Liquid Soap A & B Tank	2017	1,585 gal	N
89S	89E	Liquid Soap A & B Tank	2017	1,585 gal	N
90S	90E	Liquid Soap A & B Tank	2017	1,585 gal	N
91S	91E	Liquid Soap A & B Tank	2017	1,585 gal	N
92S	92E	Liquid Soap A & B Tank	2017	1,585 gal	N
93S	93E	Liquid Soap A & B Tank	2017	1,585 gal	N
94S	94E	Liquid Soap A & B Tank	2017	1,585 gal	N
94bS	94bE	Liquid Soap A & B Tank	2017	1,585 gal	N
94cS	94cE	Liquid Soap A & B Tank	2017	1,585 gal	N
94dS	94dE	Liquid Soap A & B Tank	2017	1,585 gal	N
94eS	94eE	Liquid Soap A & B Tank	2017	1,585 gal	N
95S	95E	Liquid Soap A & B Tank	2017	1,585 gal	N
96S	96E	Liquid Soap A & B Tank	2017	1,585 gal	N
97S	97E	Liquid Soap A & B Tank	2017	1,585 gal	N
98S	98E	Liquid Soap A & B Tank	2017	1,585 gal	N
99S	99E	Liquid Soap A & B Tank	2017	1,585 gal	N
100S	100E	Liquid Soap A & B Tank	2017	1,585 gal	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

101S	101E	Liquid Soap A & B Tank	2017	1,585 gal	N
102S	102E	Liquid Soap A & B Tank	2017	1,585 gal	N
103S	103E	Liquid Soap A & B Tank	2017	1,585 gal	N
104S	104E	Liquid Soap A & B Tank	2017	1,585 gal	N
105S	105E	Liquid Soap A & B Tank	2017	1,585 gal	N
106S	106E	Liquid Soap A & B Tank	2017	1,585 gal	N
107S	107E	Liquid Soap A & B Tank	2017	1,585 gal	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

108S	108E	Liquid Soap A & B Tank	2017	1,585 gal	N
109S	109E	Liquid Soap A & B Tank	2017	1,585 gal	N
110S	110E	Liquid Soap A & B Tank	2017	1,585 gal	N
111S	111E	Liquid Soap A & B Tank	2017	1,585 gal	N
112S	112E	Liquid Soap A & B Tank	2017	1,585 gal	N
113S	113E	Liquid Soap A & B Tank	2017	1,585 gal	N
114S	114E	Liquid Soap A & B Tank	2017	1,585 gal	N
115S	115E	Liquid Soap A & B Tank	2017	1,585 gal	N
116S	116E	Liquid Soap A & B Tank	2017	1,585 gal	N
117S	117E	Liquid Soap A & B Tank	2017	1,585 gal	N
118S	118E	Liquid Soap A & B Tank	2017	1,585 gal	N
<u>259S</u>	<u>228E</u>	<u>Liquid Soap A & B Tank</u>	<u>2017</u>	<u>79,252 gal</u>	<u>N</u>
<u>260S</u>	<u>229E</u>	<u>Liquid Soap A & B Tank</u>	<u>2017</u>	<u>79,252 gal</u>	<u>N</u>
<u>261S</u>	<u>230E</u>	<u>Liquid Soap A & B Tank</u>	<u>2017</u>	<u>79,252 gal</u>	<u>N</u>
119S	119E	Liquid Soap A & B Packing/Filling	2017	139,798,617 gal/yr	N
120S	120E	Mixer	2017	1,182.6 mmscf/yr	3C
121S		Mixer	2017		
122S		Premix Tank	2017		
123S		Premix Tank	2017		
124S	121E	Mixer	2017	2,496.6 mmscf/yr	4C
125S		Process Tank	2017		
126S		Process Tank	2017		
127S		Process Tank	2017		

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

128S	122E	Mixer	2017	2,496.6 mmscf/yr	5C
129S		Process Tank	2017		
130S		Process Tank	2017		
131S		Process Tank	2017		
132S	123E	Mixer	2017	1,655.64 mmscf/yr	6C
133S		Process Tank	2017		
134S		Process Tank	2017		
135S		Process Tank	2017		
136S	124E	Prewriteigh Station	2017	525.6 mmscf/yr	7C
137S		Prewriteigh Station	2017		
138S		Prewriteigh Station	2017		
139S		Prewriteigh Station	2017		

140S	125E	Prewriteigh Station	2017	525.6 mmscf/yr	8C
141S		Prewriteigh Station	2017		
142S		Prewriteigh Station	2017		
143S		Prewriteigh Station	2017		
144S		Sampling Station	2017		
145S	126E	Hot Mix Tank	2017	20,611.765 mscf/yr	14C
146S	127E	Mixer	2017	918.8 mmscf/yr	9C
147S		Process Tank	2017		
148S		Process Tank	2017		
149S	126E	Hot Mix Tank	2017	20,611.765 mscf/yr	14C
150S	128E	Mixer	2017	918.8 mmscf/yr	10C
151S		Process Tank	2017		
152S		Process Tank	2017		
153S	126E	Hot Mix Tank	2017	20,611.765 mscf/yr	14C
154S	129E	Mixer	2017	918.8 mmscf/yr	11C

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

155S		Process Tank	2017		
156S		Process Tank	2017		
157S	126E	Hot Mix Tank	2017	20,611.765 mscf/yr	14C
158S	130E	Mixer	2017	1603.08 mmscf/yr	12C
159S		Process Tank	2017		
160S		Process Tank	2017		
161S	131E	Process Tank	2017	735.84 mmscf/yr	13C
162S		Process Tank	2017		
163S	132E	Dry Consumer Product Tank	2017	42,879 gal	N
164S	133E	Dry Consumer Product Tank	2017	37,641 gal	N
165S	134E	Dry Consumer Product Tank	2017	6,809 gal	N
166S	135E	Dry Consumer Product Tank	2017	396 gal	N
167S	136E	Dry Consumer Product Tank	2017	396 gal	N
168S	137E	Dry Consumer Product Tank	2017	396 gal	N
169S	138E	Dry Consumer Product Tank	2017	181 gal	N
170S	139E	Dry Consumer Product Tank	2017	181 gal	N
171S	140E	Dry Consumer Product Tank	2017	181 gal	N
172S	141E	Dry Consumer Product Tank	2017	181 gal	N
173S	142E	Dry Consumer Product Tank	2017	181 gal	N

174S	143E	Dry Consumer Product Tank	2017	181 gal	N
175S	144E	Dry Consumer Product Tank	2017	181 gal	N
176S	145E	Dry Consumer Product Tank	2017	181 gal	N
177S	146E	Dry Consumer Product Tank	2017	181 gal	N
178S	147E	Dry Consumer Product Tank	2017	181 gal	N
179S	148E	Dry Consumer Product Tank	2017	181 gal	N
180S	149E	Dry Consumer Product Tank	2017	181 gal	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

181S	150E	Dry Consumer Product Tank	2017	181 gal	N
182S	151E	Dry Consumer Product Tank	2017	181 gal	N
183S	152E	Dry Consumer Product Tank	2017	181 gal	N
184S	153E	Dry Consumer Product Tank	2017	181 gal	N
185S	154E	Dry Consumer Product Tank	2017	181 gal	N
186S	155E	Dry Consumer Product Tank	2017	181 gal	N
187S	156E	Dry Consumer Product Tank	2017	181 gal	N
188S	157E	Dry Consumer Product Tank	2017	181 gal	N
189S	158E	Dry Consumer Product PM Control	2017	17,450 scfm	15C
190S	159E	Dry Consumer Product PM Control	2017	17,450 scfm	16C
191S	160E	Dry Consumer Product PM Control	2017	17,450 scfm	17C
192S	161E	Dry Consumer Product PM Control	2017	17,450 scfm	18C
193S	162E	Dry Consumer Product PM Control	2017	17,450 scfm	19C
194S	163E	Dry Consumer Product PM Control	2017	8,000 scfm	20C
195S	164E	Dry Consumer Product Additive	2017	109 ft/s	N
196S	165E	Boiler 1	2017	62 mmbtu/hr	N
197S	166E	Boiler 2	2017	62 mmbtu/hr	N
198S	167E	Boiler 3	2017	31 mmbtu/hr	N
199S	168E	Temporary Boiler	2017	11 mmbtu/hr	N
200S	169E	Cooling Tower	2017	331 mgal/hr	N
201S	170E	Cooling Tower	2017	792 mgal/hr	N
202S	171E	Cooling Tower	2017	212 mgal/hr	N
203S	172E	Fire Pump Engine	2017	311 hp	N
204S	173E	Fire Pump Engine	2017	311 hp	N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

205S	174E	Emergency Generator	2017	350 kw	N
206S	175E	Emergency Generator	2017	350 kw	N
207S	176E	Emergency Generator	2017	350 kw	N

208S	177E	Fuel Tank	2017	5,162 gal	N
210S	179E	Warehouse Heaters	2017	18.3 mmbtu/hr (total)	N
216S	185E	VOC containing Water/waste-water Pretreatment Chemicals	2017	174,928 kg/yr	N
217S	186E	Plastic Pellet Unloading	2017	100,000 tons/yr	21C
218S	187E	Plastic Pellet Unloading	2017		22C
219S	188E	Plastic Pellet Unloading	2017		23C
220S	189E	Plastic Pellet Unloading	2017		24C
221S	190E	Plastic Pellet Unloading	2017		25C
222S	191E	Plastic Resin Storage Silo	2017	100,000 tons/yr	N
223S	192E	Plastic Resin Storage Silo	2017		N
224S	193E	Plastic Resin Storage Silo	2017		N
225S	194E	Plastic Resin Storage Silo	2017		N
226S	195E	Plastic Resin Storage Silo	2017		N
227S	196E	Plastic Resin Storage Silo	2017		N
228S	197E	Plastic Resin Storage Silo	2017		N
229SS	198E	Plastic Resin Storage Silo	2017		N
230S	199E	Plastic Resin Storage Silo	2017		N
231S	200E	Plastic Resin Storage Silo	2017		N
232S	201E	Plastic Resin Storage Silo	2017		N
233S	202E	Plastic Resin Storage Silo	2017		N

Procter and Gamble Manufacturing Company • Tabler Station Facility

1.0 Emission Units

234S	203E	Plastic Resin Storage Silo	2017		N
235S	204E	Plastic Resin Storage Silo	2017		N
236S	205E	Plastic Resin Storage Silo	2017		N
237S	206E	Plastic Resin Storage Silo	2017		N
238S	207E	Plastic Resin Storage Silo	2017		N
239S	208E	Plastic Resin Storage Silo	2017		N
240S	209E	Plastic Resin Storage Silo	2017		N
241S	210E	Plastic Resin Storage Silo	2017		N
242S	211E	Plastic Resin Storage Silo	2017		N
243S	212E	Plastic Resin Storage Silo	2017		N
244S	213E	Plastic Resin Storage Silo	2017		N
245S	214E	Plastic Resin Storage Silo	2017		N
246S	215E	Plastic Re grind	2017	32,000 tons/yr	26C

247S	216E	Plastic Forming	2017	100,000 tons/yr	N
248S	217E	Plastics Molding, Cleaning Fugitives	2017	6 tons/yr	N
249S	218E	Plastics Molding Space Heaters	2017	17 mmbtu/hr total	N
255S	224E	Plastics Molding Cooling Tower	2017	7,000 gpm	N
256S	225E	Plastics Mold. Emergency Gen.	2017	70 kw	N
257S	226E	Case Printing Ink	2017	3,430 lb/yr	N
258S	227E	Case Packing Glue	2017	690,080 lb/yr	N

to the address(es) set forth below or to such other person or address as the Secretary of the Department of Environmental Protection may designate:

If to the DAQ:

Director
 WVDEP
 Division of Air Quality
 601 57th Street, SE
 Charleston, WV 25304-2345

If to the USEPA:

Associate Director
 Office of Air Enforcement and Compliance
 Assistance
 (3AP20)
 U. S. Environmental Protection Agency
 Region III
 1650 Arch Street
 Philadelphia, PA 19103-2029

3.5.4. Operating Fee.

3.5.4.1. In accordance with 45CSR30 – Operating Permit Program, the permittee shall submit a Certified Emissions Statement (CES) and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

3.5.4.2. In accordance with 45CSR30 – Operating Permit Program, enclosed with this permit is a Certified Emissions Statement (CES) Invoice, from the date of initial startup through the following June 30. Said invoice and the appropriate fee shall be submitted to this office no later than 30 days prior to the date of initial startup. For any startup date other than July 1, the permittee shall pay a fee or prorated fee in accordance with the Section 4.5 of 45CSR22. A copy of this schedule may be found attached to the Certified Emissions Statement (CES) Invoice.

3.5.5. **Emission inventory.** At such time(s) as the Secretary may designate, the permittee herein shall prepare and submit an emission inventory for the previous year, addressing the emissions from the facility and/or process(es) authorized herein, in accordance with the emission inventory submittal requirements of the Division of Air Quality. After the initial submittal, the Secretary may, based upon the type and quantity of the pollutants emitted, establish a frequency other than on an annual basis.

4.0. Source-Specific Requirements

4.1. Limitations and Standards

4.1.1 The Procter & Gamble Manufacturing Company, Tabler Station Facility shall consist of only the pollutant-emitting equipment and processes identified under Section 1.0 of this permit and any other processes/units defined as De Minimis per 45CSR13. In accordance with the information filed in Permit Application R13-3316, the equipment shall be installed, maintained, and operated so as to minimize any fugitive escape of pollutants and the equipment/processes shall use the specified control devices.

4.1.2. Emissions from the facility shall not exceed the following:

	NO _x		SO ₂		VOC		PM		CO	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
Scrubber Stacks ¹	1.06	4.66	2.10	1.41	1.80	4.13	6.9	21.70	0.06	0.24

¹ Surfactant startup preheaters vent to scrubber stacks. Emissions are additive to surfactant scrubber emissions.

Surfactant Startup Preheater	0.78	0.03	0.01	0.01	0.09	0.01	0.12	0.01	1.30	0.05
Surfactant Manufact. Tanks	--	--	--	--	0.28	1.20	--	--	--	--
Truck and Rail Loading ¹	--	--	--	--	0.02	0.06	--	--	--	--
Liq. Soap Outdoor Tanks	--	--	--	--	0.24	1.7080	--	--	--	--
Liq. Soap Indoor Tanks	--	--	--	--	0.1720	0.7680	--	--	--	--
Liq Soap Packing & Capping	--	--	--	--	0.01	0.01	--	--	--	--
Rotoclones & Liq. Soap Fug.	--	--	--	--	33.23	33.42	4.57	20.06	--	--
Liquid Soap RTO ²	0.24	1.10	0.01	0.01	213.50	8.00	0.02	0.07	1.30	5.80
Dry Cons. Prod Manuf. Out. Tanks	--	--	--	--	0.07	0.31	--	--	--	--
Dry Cons. Prod Manuf. In. Tanks	--	--	--	--	0.09	0.36	--	--	--	--
Dry Cons. Prod. Baghouses/Fab. Filters	--	--	--	--	--	--	3.81	16.71	--	--
Dry Cons. Prod Manufact. Fugitives	--	--	--	--	2.0	8.70	--	--	--	--
Main Facility Boilers	11.30	49.50	0.10	0.41	0.55	2.49	1.17	5.00	5.70	25.00
Main Facility Cooling Towers	--	--	--	--	--	--	1.35	5.90	--	--
Main Facility Engines	14.10	3.51	0.05	0.02	0.29	0.07	0.29	0.07	2.75	0.70
Main Facility Process Heaters	0.90	3.90	0.02	0.05	0.10	0.44	0.14	0.60	1.51	6.60
Water/Waste water Treatment	--	--	--	--	2.99	13.04	--	--	--	--
Case Print. Ink & Case Pack. Glue Use	--	--	--	--	0.14	0.59	--	--	--	--
Plastics Molding Cyclones	--	--	--	--	--	--	0.29	0.35	--	--
Plastics Moldings Silos	--	--	--	--	--	--	2.91	3.50	--	--
Plastic Re grind	--	--	--	--	--	--	0.04	0.17	--	--
Plastic Molding Fugitives	--	--	--	--	2.07	9.07	--	--	--	--
Plastic Molding Space Heat.	0.83	3.65	0.01	0.04	0.10	0.41	0.13	0.56	1.40	6.13
Plastic Molding Cool. Tower	--	--	--	--	--	--	0.42	1.84	--	--

¹ Less than 0.001 lb/hr potential particulate emissions from surfactant unloading.

² Maximum hourly VOC emissions of 213.5 lb/hr (less than 24 hours per year). Maximum hourly VOC controlled emissions of 6.4 lb/hr.

Plastic Molding Engines	0.42	0.11	0.01	0.01	0.21	0.06	0.01	0.01	0.84	0.21
Total	29.63	66.46	2.31	1.96	257.958	84.8397	22.17	76.55	14.86	44.73

- 4.1.3 The permittee shall maintain the pH of the scrubbing liquor to a level at least as alkaline as it was during the most recent test which showed compliance with the emission levels of 4.1.1.
- 4.1.4 Each surfactant startup preheater shall not operate more than 72 hours per year.
- 4.1.5 All process tanks for Liquid Soap A and B manufacturing which incorporate dust control systems shall be equipped with rotoclones for emission control. Said rotoclones shall be designed, installed, operated and maintained so as to achieve emissions outlined in 4.1.2.
- 4.1.6 All hot mixing vessels for Liquid Soap A shall be equipped with an RTO to be operated anytime the mixing process uses the heated volatile processing aid. Said RTO shall be designed, installed, operated and maintained so as to achieve a minimum destruction efficiency of at least 97%. Operation of the hot mixing process vessels using the heated volatile processing aid without RTO shall be maintained at less than 24 hours per year.
- 4.1.7 The Dry Consumer Laundry and Cleaning Products area shall be equipped with fabric filters to control particulate emissions.
- 4.1.8 Boiler Nos. 1 and 2 shall not exceed a heat input of 62 mmbtu/hr each. Boiler No. 3 shall not exceed a heat input of 31 mmbtu/hr. All boilers shall be fired exclusively with pipeline quality natural gas.
- 4.1.9 Boiler Nos. 1 and 2 shall not consume more than 543 mmscf of fuel per year each. Boiler No.3 shall not consume more than 272 mmscf of fuel per year.
- 4.1.10 Visible emissions from any boiler shall not exceed 10% opacity based on a six minute block average. **[45CSR§2-3.1.]**
- 4.1.11 The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction and actual startup of the natural gas fired boilers, as provided by §60.7 of this part. **[40 CFR §60.48c(a)]**
- 4.1.12 The cooling towers shall be operated with a drift rate of no more than 0.002%. Additionally, the total dissolved solids (TDS) content of the cooling tower water shall not exceed 6,000 ppm.
- 4.1.13 The three emergency generators (205S, 206S and 207S) and two fire water pump engines (203S and 204S) shall fire only ultra low sulfur diesel fuel with a sulfur content of no greater than 0.0015% by weight.
- 4.1.14 Each of the three Caterpillar C15 emergency generators (205S, 206S and 207S) shall not consume more than 28.6 gallons of fuel oil per hour.
- 4.1.15 Each of the two Clark fire pump engines (203S and 204S) shall not consume more than 16.13 gallons per hour.
- 4.1.16 The 4 stroke rich burn emergency generator (256S) shall fire only pipeline quality natural gas. Said engine shall not consume more than 196 scf per hour of natural gas.
- 4.1.17. Emissions from the emergency generators and fire water pump engines shall not exceed the following (all limits in g/kW-hr, unless otherwise noted): **[40 CFR §60.4205]**

Engine	NMHC + NO _x	CO	PM
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