



Louisville Metro Air Pollution Control District
 701 West Ormsby Avenue, Suite 303
 Louisville, Kentucky 40203-3137



8/02/2018

Title V Statement of Basis

Owner: Haier US Appliance Solutions, Inc.
Source: GE Appliances, a Haier company – Appliance Park
Plant Location: 4000 Buechel Bank Road, Louisville, Kentucky 40225

Date Application Received: 08/28/2014 **Date Admin Complete:** 10/27/2014
 See Paragraph 8

Date of Draft Permit: 9/23/2017 **Date of Proposed Permit:** 9/23/2017
 4/14/2018 4/14/2018

District Engineer: Rick Williams **Permit No:** O-0870-17-V (R1)

Plant ID: 0870 **SIC Code:** 3639 **NAICS:** 33552

Introduction:

This permit will be issued pursuant to: (1) Regulation 2.16, (2) Title 40 of the Code of Federal Regulations Part 70, and (3) Title V of the Clean Air Act Amendments of 1990. Its purpose is to identify and consolidate existing District and Federal air requirements and to provide methods of determining continued compliance with these requirements.

The purpose of this permitting action is an administrative revision of the Title V operating permit to add new case-by-case Insignificant Activities and modification of certain calculation methodologies. Also, a significant revision to add testing requirements to emission units U42 and U310.

Jefferson County is classified as an attainment area for lead (Pb), nitrogen dioxide (NO₂), carbon monoxide (CO), 1 hr and 8 hr ozone (O₃), and particulate matter less than 10 microns (PM₁₀); and unclassifiable for the 2012 standard for particulate matter less than 2.5 microns (PM_{2.5}) and partial non-attainment area for sulfur dioxide (SO₂).

Permit Application Type:

- | | | |
|---|--|---|
| <input type="checkbox"/> Initial issuance | <input type="checkbox"/> Permit Revision | <input type="checkbox"/> Permit renewal |
| | <input checked="" type="checkbox"/> Administrative | |
| | <input type="checkbox"/> Minor | |
| | <input checked="" type="checkbox"/> Significant | |

Compliance Summary:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Compliance certification signed | <input type="checkbox"/> Compliance schedule included |
| <input type="checkbox"/> Source is out of compliance | <input checked="" type="checkbox"/> Source is operating in compliance |

I. Source Information

1. **Product Description:** The source manufactures home laundry appliances, dishwashers, and refrigerators.
2. **Process Description:** The source receives raw steel sheet, coated steel sheet, tubing, drives, motors, and other assorted paint, chemicals, and hardware from which it manufactures and assembles major home appliances.
3. **Site Determination:** There are no other facilities that are contiguous or adjacent and under common control.
4. **Emission Unit Summary:**

Emission Unit	Equipment Description
Plantwide	All plantwide standards – NO _x , VOC, and TAC
U01	Powder paint system in AP1
U04	E-Coat prime in AP2
U30	Powder paint system in AP2
U40	Rack prime dip system in AP3
U42	PVC fluidized bed system in AP3
U81 and U82	Gas-fired Boilers and Indirect-fired Process Heat Exchangers
U87	Gasoline storage tank and Dispensing
U100	ABS extruder in AP5
U104 – U107	Metal parts fabrication in AP2
U109	Abrasive blasting (hanger paint stripping process) in AP2
U111	Emergency generators – RICE MACT
U112	Emergency generators – RICE MACT and NSPS CI ICE
U310	Nylon rack fluidized bed coating system in AP3
U311	Adhesive for end caps on dishwasher racks in AP3
U500	Touch-up paint, adhesives, and lubricating the spine fin evaporator bottom mount freezer refrigerator line in AP5
U510	Bottom mount freezer refrigerator line in AP5
U530	Metallic powder paint system in AP2
Solvent Metal Cleaning Equipment	Parts washers
Miscellaneous	Miscellaneous coating, chemical, and lubricant use

Emission Unit	Equipment Description
IA01	Insignificant Activity Indirect-fired Combustion Sources < 1 MMBtu/hr
IA02	Insignificant Activity Regulation 7.25 Process Equipment
IA03	Insignificant Activity Regulation 7.08 Process Equipment
IA04 (U89)	VOC Storage Tank
IA05	Insignificant Activity - Combustion Source not accounted for in any other emission unit

5. **Fugitive Sources:** Fugitive emissions of dust from any part of the plant are subject to Regulation 1.14, Control of Fugitive Particulate Emissions.

6. **Permit Revisions:**

Revision No.	Permit No.	Issue Date	Public Notice Date	Change Type	Change Scope	Description
Initial	155-97-TV	01/22/2010	9/7/2009	Initial	Entire Permit	Initial issuance of the permit.
R1	155-97-TV(R1)	01/22/2010	NA	Administrative	U01, U04, U30, U42, Combustion Sources <10 MMBtu/hr, and Miscellaneous	Incorporate construction permits # 72-89-C(R1), 73-89-C(R1), 19-91-C(R1), 145-98-C(R1), 201-01-C(R1), 216-93-C(R1), 405-92-C(R1), 334-92-C, 22-91-C(R1), 494-08-C (R1), 129-09-C (R1), and 652-08-C (R1)

Revision No.	Permit No.	Issue Date	Public Notice Date	Change Type	Change Scope	Description
R2	155-97-TV (R2)	09/17/2013	NA	Admin	U01, U200 AP2, U210 AP2, U220 AP2, U230 AP2, U311 AP3, U310 AP3, U500 AP5, U510 AP5, Combustion Sources <10 MMBtu/hr and Insignificant Activities	<p>Incorporate construction permits # 207-09-C(R1), 34677-12-C, 33733-11-C, 33371-11-C, 33029-11-C, 33262-11-C, 33667-11-C, 36340-12-C, 29161-10-C(R3), 33022-11-C, 32675-11-C, 33318-11-C, 33671-11-C, 33373-11-C(R1), and 34823-12-C.</p> <p>Updated TAC language and the Insignificant Activities List.</p> <p>Updated Boiler #6 (U81) description to reflect 1998 boiler modification</p> <p>Removed U90 as equipment has been removed</p> <p>Removed U101, U102, and U103 from emission Unit U100 – 103, as equipment has been removed, and renamed emission unit to U100</p> <p>Removed Regulations 7.08 and 7.09 from emission unit U111 as the District has determined these were not applicable regulations for emergency generators</p> <p>Removed emission points 176-00 and 73-87 from emission unit U-Miscellaneous as the equipment has been removed</p>

Revision No.	Permit No.	Issue Date	Public Notice Date	Change Type	Change Scope	Description
N/A	O-0870-17-V	12/19/2017	9/23/2017	Renewal	Entire Permit	Permit Renewal. Incorporate construction permits 37206-13-C(R1), TV-14-1001-C, TV-14-1012-C, and C-0870-1004-14-V. Removed U108, U200, U210, U220, and U230 as equipment has been removed.
R1	O-0870-17-V	8/02/2018	4/14/2018	Admin	Various, as noted in the description	<u>Correct typographical errors noted throughout the permit.</u> <u>Add EP-IA8 and conditions for U530.</u> <u>Add insignificant activities from applications 90311 and 90793 to the IA table.</u> <u>Add emission points IA02-25 – IA02-31 to the equipment table in emission unit “IA02 – Regulation 7.25 Process Equipment”.</u> Updated default control efficiency for C109 from 95% to 98% per current District policy <u>Add emission point IA03-20 to emission unit “IA03-Regulation 7.08 Process Equipment”.</u> <u>Several Items in the Calculation Methodology tables:</u> <u>- Correct the natural gas emission factors in the introduction to</u>

Revision No.	Permit No.	Issue Date	Public Notice Date	Change Type	Change Scope	Description
						<p>the tables</p> <ul style="list-style-type: none"> - <u>Correct the methodologies for emission points EP309, AP3-310a, EP510, 35-04, IA02-12, and IA03-18</u> - <u>Add calculation methodologies for the emission points added in this permit revision, noted above.</u> - <u>Updated the tables in the Comments section of the Plantwide Requirements to incorporate updated cancer risk factors, R_c for U510, based on revised EA Demo submitted by the company.</u> - <u>Added cumene emission limit for U510</u>
				Significant		<p><u>Added Testing Requirements to Emission Units U42 and U310</u></p>

7. Construction Permit History:

Permit No.	Issue Date	Description
37206-13-C(R1)	8/28/2014	One (1) new new Hosokawa 80/140 CL 5,500 lb/hr plastic grinder, one (1) existing Hosokawa 60/140 CL 4,500 lb/hr plastic grinder, three (3) cyclones, and one (1) Kice VR60-10N baghouse in AP-5.
TV-14-1001-C	2/25/2014	One (1) 1,800 lb/hr dry grit blasting booth with steel shot abrasive to replace the current blasting unit on the high efficiency water heater line in AP-2.
TV-14-1012-C	8/14/2014	A metallic powder paint system including two (2) natural gas-fired immersion tube heaters as part of a 6-stage aqueous non-VOC pretreatment part washer system, one (1) infrared dry-off oven, two (2) electrostatic powder paint application systems, two (2) infrared gel ovens, and one (1) conventional natural gas-fired cure oven to be installed in AP-2.
C-0870-1004-14-V	1/21/2015	One (1) JBI Inc IDB-128-S spray booth with filters in AP-5.

8. Applications and Related Documents:

Application Number	Document Received Date	Description
14973	6/3/2010	Application for Temporary Boiler
14974	9/29/2010	Application for two (2) process heaters; 2.6 MMBtu/hr Preheater and 1.4 MMBtu/hr Postheater
14975 & 14976	12/17/2010	TV revision to include equipment from construction permit 207-09-C(R1) two (2) Kohler emergency generators.
14999	12/23/2010	TV revision to include updated IA list.
15030	3/01/2011	Notification of Coal Boilers Removal
14977	3/09/2011	Application for Granutec Grinder
25964	3/22/2011	Request to Remove U102 (EP 542) South Inner Door Liner Extruder and U103 (EP 543) West Inner Door Liner Extruder
28510	3/23/2011	Request for Information regarding Regrinders
26220	3/28/2011	Application for Plastic Regrinding Activities in AP-1 Basket Regrinding, AP-1 Tub Regrinding, and AP-3 Ash White Tub Regrinding
28511	3/29/2011	Request for control device efficiencies for AP-3 Regrinding

Application Number	Document Received Date	Description
28506	3/31/2011	AP-1 and AP-3 Regrind Flow Diagram
28507	4/11/2011	Modification of R&D Ovens to Production Ovens
28508 & 29106 & 29231	4/11/2011 & 4/29/2011	Request for MRR Relief for removed equipment U102 and U103
29229	4/21/2011	Additional Request for Information on the Reginding Processes and Ovens
29230	4/29/2011	Submittal of information request for Reginders and Ovens
29107	5/11/2011	District Approval of MRR Relief for removed equipment U102 & U103
29323 & 31408	5/16/2011 & 8/18/2011	Application for HEWH Line
29576	5/17/2011	Response to Request for Regrind PTE Information
29592	5/20/2011	Information Regarding the 70% building enclosure from Ohio
29651	5/23/2011	Company Comments on Construction Permit for Grinding Operations
29641	5/24/2011	District Approval of IA determination for AP-3 Grinding Operations
30081	6/10/2011	Application for nine (9) Low NOx burner Hot Water Boilers
30249	6/20/2011	Performance Guarantees for Enameling equipment
30386	6/23/2011	Performance Guarantee for Blasting equipment
30491	6/28/2011	Application for Bottom Mount Refrigerator Line
30492	6/28/2011	Request for Boiler #6 capacity modification
30493	6/28/2011	Request for Synthetic Minor (PSD Avoidance) Limits for VOC and NOx
31277	8/9/2011	VOC BACT Analysis for Proposed AP-5 Foaming Line Operations Regulation 7.25
31282	8/10/2011	Application for Nylon Rack Coating Line
31556	8/10/2011	Additional Information requested for VOC BACT Analysis for Foaming Line Operation
31413 & 31450	8/19/2011 & 8/23/2011	Revised VOC BACT Analysis for Proposed AP-5 Foaming Line Operations Regulation 7.25
31488	8/25/2011	Additional Information for foaming operation
31635 & 31641	8/31/2011	VOC BACT Analysis for Spine Fin Evaporator Operation Bottom Mount Freezer
31664	9/1/2011	Additional Information request for VOC BACT Analysis for Spine Fin Evaporator Operation Bottom Mount Freezer

Application Number	Document Received Date	Description
31781	9/7/2011	Company Response for VOC BACT Analysis for Spine Fin Evaporator request
32306	9/23/2011	Cindol Emissions PTE for HEWH
41378	9/26/2011	Correspondence Regarding IA equipment and Regulation 7.25 BACT requirements
32266	9/27/2011	Application AP-2 Powder Coating Line for water heater parts
33074	10/14/2011	VOC BACT Analysis for AP-2 Pretreatment Operation
33075	10/14/2011	VOC Banking Emissions Withdrawal Request for use in AP-5 Bottom Mount Refrigerator Operations for Regulation 7.25
33362	10/24/2011	District Approval of Revised BACT Analysis for HEWH
33363	10/24/2011	Revised BACT Analysis for AP-2 Pretreatment Operation
34335	11/30/2011	Revised Application for Nylon Rack Coating Line Ovens
35383	1/24/2012	Application PVC Rack Coating Line Post Heat Oven
36385	3/7/2012	Application for Modification of U01 Powder Paint Bake Oven (AP1)
37513	4/10/2012	Request to remove Emission Point 160-93 from the Miscellaneous Emission Unit.
37578	4/11/2012	Application for Adhesive Application Process for End Caps on Nylon Dishwasher Racks (AP3)
37918	4/17/2012	Application for Modification to PVC Rack Coating Line Post Heat Oven (dishwasher racks)
41299	7/10/2012	TV revision to included equipment from construction permits: 34677-12-C, 33733-11-C, 33371-11-C, 33029-11-C, 33262-11-C, 29161-10-C(R3), 33022-11-C, 32675-11-C, 33318-11-C, and 33671-11-C.
41651	7/13/2012	Request to void construction permit for temporary Boiler
50621	10/3/2012	Application for HA Basket Washer Heater
50622	10/3/2012	Request to remove emission point 320-92-O from TV permit in the Miscellaneous Equipment Emission Unit as all five (5) touch up spray booths have been removed from building AP5
50623	10/3/2012	Request to extend construction permit 33373-11-C
52235	12/7/2012	Application for AP1 Make Up Air System Heater
52439	12/14/2012	Approval of IA equipment AP1 Make Up Air System Heater (NPR)
52553	12/14/2012	TV revision to include equipment form construction permit: 33667-11-C.
53300	1/11/2013	TV revision to included equipment from construction permits: 36340-12-C, 33373-11-C(R1), and 34823-12-C. Additional to include

Application Number	Document Received Date	Description
		updates to the IA list to add the following equipment: Bradford white 1.99 MM Btu/hr heater Park Athletic Club (appl date 12/17/2010); pellet grinder and cyclone (appl date 3/9/2011); grinding operation for AP-3 ash white tub (appl date 3/28/2011); AP-1 make up air heater (appl date 12/7/2012).
53880	2/4/2013	Application to add MACT Regulated Equipment to Permit
54344	2/28/2013	Application updated IA equipment list
54510 & 55003	3/8/2013 & 3/27/2013	Application for new Regrind System in AP5 & Updated Application for same equipment
55973	5/20/2013	Notification of Equipment Removal, U90, U101-U103, 176-00, and 73-87
56432	6/27/2013	Notification of Equipment Removal U108
61090	12/4/2013	District Notification of Regulation 5.21 BAC Changes
61695	1/9/2014	Application for 1800 lb/hr dry grit blasting booth in AP-2
61846	1/17/2014	Additional Information for Application for grit blasting
62121	1/31/2014	Request to Remove NOx RACT Plan from TV permit
62391	2/11/2014	District Letter Notifying the Company TV permit expires 2/28/2015 and renewal application is due six (6) months prior to expiration
65399	6/4/2014	Company Response to Regulation 5.21 BAC Changes
65585	6/19/2014	Application for metallic powder paint system
65728	6/24/2014	Application requesting modification for plastic grinders in AP-5
65825	6/30/2014	Company Response to capacity of Hosokawa Regrinder (EP AP4RH) for revision to 37206-13-C
66737	8/28/2014	TV Renewal Application
66910, 66964	9/10/2014, 9/12/2014	IA Application for two 900 kW emergency engines
67365	9/30/2014	District Response to IA Fire Pump Engine Application
68193	11/25/2014	IA Application for a natural gas burner to heat a rinse tank AP1 Hot Water Rinse Laundry Tubs
68194	11/25/2014	Application for spray booth with filters in AP5, construction permit C-0870-1004-14-V
68195	11/25/2014	IA Application for minor repairs with aerosol paints in AP5
68339	12/8/2014	District Approval of AP1 Hot Water Rinse Laundry Tubs
68343 & 69245	12/9/2014 & 2/5/2015	Original and Revised Application for AP1 Emergency Generator Engine EP111a with updated EA Demo

Application Number	Document Received Date	Description
69742	2/26/2015	Application to convert construction permits to operating permits for the following permits: 37206-13-C(R1), TV-14-1001-C, and C-0870-1004-14-V
69935	3/4/2015	IA Application for metallic powder coating pre-wash in AP2
69934	3/5/2015	IA Application for 50 kW diesel emergency backup generator engine in AP24
70083	3/13/2015	IA Application for metallic powder coating quality test operation in AP2
70305	3/25/2015	District Approval Response to Multiple IA request
70963	4/28/2015	IA Application for several injection molding plastics recycling systems
71118	5/12/2015	Company Response to information request for IA equipment
72074	6/12/2015	IA Application for ultrasonic cleaning cabinet
72122	6/18/2015	District Approval Response to IA ultrasonic cleaning cabinet
73083	8/18/2015	Application to convert construction permits to operating permits for the following permits: TV-14-1012-C (includes updated emission point and stack data)
73130	8/20/2015	Revised response to Regulation 5.21 BAC Changes
73185	8/24/2015	2 nd Revised response to Regulation 5.21 BAC Changes
73480	8/27/2015	Updated IA List
73340	8/31/2015	District Response to Revised Regulation 5.21 BAC Changes-exceeding EA Goals
73413	9/8/2015	Company's Response to District STAR letter of 8/31/2015
73850	10/12/2015	Application for HEWH Shell Grit Blaster IA determination
74056	10/19/2015	AP2 Metallic STAR Supplement
74057	10/22/2015	AP2 Metallic STAR EA Approval
74058	10/22/2015	Shell Tank Grit Blaster Supplemental Information
74078	10/26/2015	District Approval of Shell Tank Grit Blaster IA determination
74390	11/18/2015	Updated IA List
74391	11/19/2015	Additional Information on IA process heaters and Boiler MACT
74486	12/1/2015	Request for Certificate of Conformity Documentation
74526	12/2/2015	Application for Sanding of defective parts
74610	12/11/2015	District Approval of IA for Sanding Operation of defective parts
74682	12/17/2015	Application for 2.05 MMBtu/hr process heater

Application Number	Document Received Date	Description
74712	12/23/2015	District Approval of 2.05 MMBtu/hr process heater as IA equipment
74778 & 74885	1/7/2016 & 1/19/2016	Company pre-draft review of TV renewal permit & Extension Request Approval of review time
75140	2/8/2016	Company comments on pre-draft TV renewal permit
75818 & 75863	2/10/2016 & 3/14/2016	District Request for Certificate of Authority issued by Kentucky Secretary of State & Second Request with Example
76620	4/14/2016	Updated EA Demo
76718	4/25/2016	GE's request for a meeting to discuss company comments and District's response
76831	4/26/2016	Enamel Furnace (HEWH) modification
77176	5/4/2016	Questions regarding change of Name and Ownership
77106	5/9/2016	District Response to HEWH IA equipment approval
77107	5/9/2016	District Response to new coating Loctite 648 STAR EA Demo received 4/14/2016
77177	5/10/2016	Clarification on IA HEWH Furnace heat input
77418	5/19/2016	District Response for IA determination HEWH Furnace
77665	6/7/2016	Application for Ownership and Name Change to Haier US Appliance Solutions, Inc.
77788	6/13/2016	District Response regarding NESHAPs change of ownership needs to be submitted to EPA also
78662 & 78714 & 78770	7/29/2016 & 8/3/2016 & 8/4/2016	Request to keep U108 in TV renewal permit & District Response & Additional Information submitted by Company
78906	8/11/2016	Additional Information related to updated IA list
78905	8/15/2016	Additional Information related to updated IA list
80843	8/19/2016	MSDS/SDS for VOC storage tanks
80842	8/24/2016	Updated IA List regarding VOC storage tanks and IA combustion sources
80062	10/13/2016	Updated EA Demo – BAC Changes for MIBK
80402	11/9/2016	Application for 5.3 MMBtu/hr process heater
80403	11/9/2016	Application for 2.05 MMBtu/hr process heater
80439	11/10/2016	District Response agreement to IA determination of 5.3 MMBtu/hr and 2.05 MMBtu/hr process heaters
80455	11/14/2016	Additional Information on the 5.3 MMBtu/hr process heater

Application Number	Document Received Date	Description
80480	11/15/2016	Application for 7.5 MMBtu/hr process heater
80525	11/18/2016	District approval of IA determination for 7.5 MMBtu/hr process heater
80594	11/23/2016	Updated IA List
80861	12/14/2016	Updated IA List
80860	12/15/2016	Updating process heater capacities
80957	12/21/2016	Updated TV Application Pages for U30 process heaters, AP-100A and Ap-100B
81095	1/4/2017	Updated IA List for 2.05 MMBtu/hr process heater
81548	1/30/2017	Correspondence related to clarification on NOx RACT Plan
82458	3/8/2017	Response to MIBK BAC Changes from 10/13/2016
82877	3/21/2017	Company request for status update on TV renewal permit
84522, 84544, & 84545	6/2/2017 and 6/5/2017	Notification of Equipment changes – and Revised STAR EA Demo for U510.
84548	6/5/2017	Company request to review pre-public comment period
84705	6/8/2017	Company response to request for Updated Application for name change
84843, 84896, & 85036	6/19/2017, 6/20/2017, & 6/28/2017	Company correspondence regarding injection molding and Regulation 7.25 applicability
85625	8/3/2017	Correspondence regarding central vacuum system
85802	8/9/2017	Application for Central Vacuum System
85803	8/9/2017	Application for Ultrasonic Cleaner
85943	8/15/2017	District Agreement that Central Vacuum System and Ultrasonic Cleaner are Insignificant Activities
86014	8/16/2017	Correspondence regarding central vacuum system
87383	9/19/2017	District Response to Injection Molding and Regulation 7.25 Applicability
88308	10/20/2017	Company comments on public comment version of TV permit
89208	11/21/2017	Correspondence regarding status of draft TV permit
88782	11/07/2017	Email record of phone call for clarification of permitting requirements for burner addition.
88993	11/08/2017	Application to add two ~4 MMBtu/hr burners for dryoff ovens.
89111	11/5/2017	Correspondence clarifying requirements for Insignificant Activity addition
89175	11/20/2017	Letter from APCD approving burners as IA.
90186	01/22/2018	Communication regarding stack identification for new burners

Application Number	Document Received Date	Description
90198	01/23/2018	Email to GEA defining requirements for addition of case-by-case (Regulation 1.02 §1.38.1.2) insignificant activities.
90304	01/31/2018	Transmittal of draft permit incorporating new burners for dryoff ovens.
90449	02/06/2018	Email conforming telephone conversation to delay permit revision R1 until additional case-by-case Insignificant Activities can be added.
91216	03/19/2018	Email confirmation of telephone call, confirming cancellation of plans to install burners covered in application 88993
90311	02/01/2018	Application for addition of an isopropyl alcohol (IPA) wiping operation as a case-by-case insignificant activity.
90404	02/02/2018	APCD initial IA determination for IPA wiping operation and determination of 40 CFR 63, subpart NNNN applicability.
90448	02/01/2018	Clarification question for IPA wiping operation.
91683	02/01/2018	Attachment to #90448
91050	02/13/2018	GEA appeal of APCD 40 CFR 63, subpart NNNN applicability determination.
91051	02/27/2018	APCD response to GEA NNNN MACT appeal.
09398	02/05/2018	Email from GEA identifying Calculation Methodology (Appendix D) revisions required.
90716	02/15/2018	APCD response to GEA request for calculation methodology revisions.
90765	02/19/2018	Additional correction to calculation methodology for EP309.
90793	02/20/2018	Application for eight additional; case-by-case IA additions.
91872	05/03/2018	GE submission of revised EA Demo for U510
92011	05/15/2018	APCD review of GE revised EA Demo for U510
91924	05/09/2018	U109 Throughput determination – company submission
92684	06/25/2018	APCD proposed emission calculations for U109
92857	07/09-10/2018	Additional emails regarding U109 emission calculations
92035	05/14/2018	Company data regarding Door-in-Door VOC content
92004	05/14/2018	Company comments on draft permit
TBD	TBD	APCD Response to GE comments

9. Emission Summary:

Pollutant	District Calculated Actual Emissions (tpy) 2016 Data	Pollutant that triggered Major Source Status (based on PTE)
CO	23.3	Yes
NO _x	27.0	Yes ¹
SO ₂	0.16	No
PM ₁₀	8.59	Yes
VOC	21.2	Yes ²
Total HAPs	2.09	Yes
Single HAP > 1 tpy		
Styrene	1.16	Yes
Greenhouse Gas ³	29,379 CO ₂ e	No

Note¹: Limit taken to not be major for pollutant.

Note²: Major for Title V, limit taken to not be major for pollutant for PSD

Note³: This data obtained from EPA 2013 Greenhouse Gas Emissions (ghgdata.epa.gov).

10. Applicable Requirements:

PSD 40 CFR 60 SIP 40 CFR 63
 NSR 40 CFR 61 District-Origin Other

11. Referenced MACT Regulations:

40 CFR 63 Subpart A	General Provisions
40 CFR 63 Subpart NNNN	National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances
40 CFR 63 Subpart ZZZZ	National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
40 CFR 63 Subpart DDDDD	National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial, and Institutional Boilers and Process Heaters

12. Referenced non-MACT Federal Regulations:

40 CFR 60 Subpart A	General Provisions
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units
40 CFR 60 Subpart SS	Standards of Performance for Industrial Surface Coating: Large Appliances
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

II. Regulatory Analysis

1. **Acid Rain Requirements:** The source is not subject to the Acid Rain Program.
2. **Stratospheric Ozone Protection Requirements:** Title VI of the CAAA regulates ozone depleting substances and requires a phase-out of their use. This rule applies to any facility that manufactures, sells, distributes, or otherwise uses any of the listed chemicals. This source does not manufacture, sell, or distribute any of the listed chemicals. The sources' use of listed chemicals is that in fire extinguishers, chillers, air conditioners, and other HVAC equipment, and commercial refrigerators. Additionally, in 1995, the source voluntarily substituted high ozone depleting with a low ozone depleting compound in its refrigerator foaming operation under a "pollution control project" which received formal EPA approval on May 1, 1995.
3. **Prevention of Accidental Releases 112(r):** The source does not manufacture, process, use, store, or otherwise handle one or more of the regulated substances listed in 40 CFR Part 68, Subpart F, and District Regulation 5.15, *Chemical Accident Prevention Provisions*, in a quantity in excess of the corresponding specified threshold amount. If the source becomes subject to 40 CFR 68 and Regulation 5.15, the source shall comply with the Risk Management Program and Regulation 5.15 and submit a Risk Management Plan to:

RMP Reporting Center
P.O. Box 3346
Merrifield, VA 22116-3346

4. Basis of Regulation Applicability**a. Plant-wide**

- i. Haier is a major source for CO, NO_x, VOC, and Total HAPs. Regulation 2.16 - *Title V Operating Permits* establishes requirements for major sources. Based on the plantwide PTE evaluation. Haier has accepted limits to not be a PSD major source for NO_x and VOC.

- ii. Regulations 5.00 5.20, 5.21, and 5.23 (STAR Program) establish requirements for environmental acceptability of toxic air contaminants (TACs) and the requirement to comply with all applicable emission standards.
- iii. Haier submitted the TAC Environmental Acceptability Demonstration to the District in December 2006, July 2007, June 2014, and August 2015. Compliance with the STAR EA Goals was demonstrated in the source's EA Demonstrations. Tier 3 SCREEN3 air modeling was performed for emission units that have non-de minimis TAC emissions. The District reviewed the EA Demonstrations submitted by the source. The following table demonstrates that the plantwide risk values model results from the source's EA Demonstration, comply with the STAR EA goals required in Regulation 5.21.

Table 1 Individual Industrial Risk

TAC	TAC Category	CAS #	U100 EP 540		U510 EP-511 and EP-512		U111 EP U111a		U112 EP DC#1 and EP DC#2	
			R _C	EAG _C	R _C	EAG _C	R _C	EAG _C	R _C	EAG _C
Acrylonitrile	1	107-13-1	0.967	< 1	0.412	< 1	-	-	-	-
Diesel PM	3	-	-	-	-	-	0.995	< 1	0.97	< 1
Ethyl Benzene	4	100-41-4	-	-	0.028 0.021	< 1	-	-	-	-
Styrene	4	100-42-5	-	-	0.055	< 1	-	-	-	-
Cumene	4	98-82-8	-	-	0.015	< 1	-	-	-	-

Table 2 Individual Non-Industrial Risk

TAC	TAC Category	CAS #	U100 EP 540		U510 EP-511 and EP-512		U111 EP U111a		U112 EP DC#1 and EP DC#2	
			R _C	EAG _C	R _C	EAG _C	R _C	EAG _C	R _C	EAG _C
Acrylonitrile	1	107-13-1	0.967	< 1	0.365	< 1	-	-	-	-
Diesel PM	3	-	-	-	-	-	0.995	< 1	0.97	< 1
Ethyl Benzene	4	100-41-4	-	-	0.018	< 1	-	-	-	-
Styrene	4	100-42-5	-	-	0.048	< 1	-	-	-	-
Cumene	4	98-82-8	-	-	0.018	< 1	-	-	-	-

Table 3 Plantwide Risk Summary

Plant-wide Summary	Individual Stationary Source, All P/PE		Individual Stationary Source, All New and Modified P/PE	
	Industrial Total R _C	3.435	< 75	2.468
Non-Industrial Total R _C	3.381	< 7.5	2.414	< 3.8

- iv. Regulation 2.16, section 4.1.9.1 and 4.1.9.2 requires monitoring and record keeping assuring ongoing compliance with the terms and conditions of the permit. The owner or operator shall maintain all the required records for a minimum of 5 years and make the records readily available to the District upon request.
- v. Regulation 2.16, section 4.3.5, requires stationary sources for which a Title V is issued shall submit an annual compliance certification by April 15 of the following calendar year. In addition, as required by Regulation 2.16, section 4.1.9.3, the source shall submit compliance reports at least every six months to show compliance with the permit. Compliance reports and compliance certifications shall be signed by a responsible official and shall include a certification statement per Regulation 2.16, section 3.5.11.

b. Emission Unit U01 – Powder Paint System (AP1)

i. Equipment:

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 100A	Two (2) Gema Volstatic powder coating booths with process reclamation system	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 40 CFR 63 Subpart NNNN	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
EP 100B	Mahon Custom Electric Cure Oven	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.59, 40 CFR 63 Subpart NNNN	Regulation 7.59 establishes the requirements for VOC emissions from new processes that commence construction after May 20, 1981. 40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.

ii. Standards/Operating Limits**1) HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

2) Opacity

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

3) PM

The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for each powder coating booth.

4) TAC

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

5) VOC

Regulation 7.59 established VOC emission rates for compliance coatings or a plantwide VOC emission limit if non-compliant coatings are used.

iii. Monitoring and Record Keeping**1) HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) VOC

Regulation 7.59 establishes monitoring and record keeping for surface coating of metal parts.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

c. **Emission Unit U04 – E-Coat Prime (AP2)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability	
EP 210A	Dip Tank	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 40 CFR 60 Subpart SS, 40 CFR 63 Subpart NNNN	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.	
EP 210B	Post-Rinse Spray			
EP 206	Dehydrator		40 CFR 60 Subpart SS provisions of this subpart apply to each surface coating operation in a large appliance surface coating line.	
EP 207	Cure Oven 3.5 MMBtu/hr			
EP 208	Cooling/Drip Tunnel			40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.
EP 209	Cooling/Drip Tunnel			

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

2) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

3) **VOC**

40 CFR 60 Subpart SS establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) **VOC**

40 CFR 60 Subpart SS establishes monitoring and record keeping for surface coating of large appliances.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

d. **Emission Unit U30 – Powder Paint System (AP2)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 213	Paint Curing Oven #1 for Black, natural gas-fired 7 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23,	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
EP 214	Paint Curing Oven #2 for Colors, natural gas-fired 7 MMBtu/hr	7.59, 40 CFR 63 Subpart NNNN	
EP 214B	Double tunnel phosphator pretreat washer	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.59	Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
EP 214C	Two (2) powder coating operations with process reclamation system	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 40 CFR 63 Subpart NNNN	40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.

ii. Standards/Operating Limits**1) HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

2) Opacity

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

3) PM

The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for each powder coating booth.

4) TAC

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

5) VOC

Regulation 7.59 established VOC emission rates for compliance coatings or a plantwide VOC emission limit if non-compliant coatings are used.

iii. Monitoring and Recordkeeping**1) HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) VOC

Regulation 7.59 establishes monitoring and record keeping for surface coating of metal parts.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

e. **Emission Unit U40 – Rack Prime Dip (AP3)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 304	Prime Dip Tank	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.16, 40 CFR 63 Subpart NNNN	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 6.16 applies to any source that performs surface coating operations to large appliances and had a construction permit issued prior to May 15, 1991.
EP 305	Preheat Eclipse Air Heat Oven 2.6 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.16, 7.08, 7.09, 40 CFR 63 Subpart NNNN	Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
EP 306	Prime Drip Chamber	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.16, 40 CFR 63 Subpart NNNN	Regulation 7.09 applies to each process operation that is not otherwise regulated by other regulations of Part 7 and commenced construction after April 19, 1976. 40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.

ii. **Standards/Operating Limits**

1) **CO**

Regulation 7.09, section 5 establishes CO emission limits.

2) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

3) **NO_x**

(a) Regulation 7.08, section 4 establishes NO_x emission limits.

(b) See the plantwide section.

4) **Opacity**

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

5) **PM**

The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for EP305 preheat oven per Regulation 7.08, Section 3.1.2.

6) **SO₂**

Regulation 7.09, section 4 establishes SO₂ emission limits.

7) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

8) **VOC**

Regulation 6.16 establishes VOC content limits of the coatings or limits discharge into the atmosphere of no more than 15% by weight of the VOCs input into the facility.

iii. **Monitoring and Recordkeeping**1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) **VOC**

Regulation 6.16 establishes monitoring and record keeping for surface coating of large appliances.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

f. **Emission Unit U42 – PVC Fluidized Bed (AP3)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 309	Fluid Bed	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.09	<p>Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.</p> <p>Regulation 6.09 establishes the requirements for PM emissions from existing processes that commence construction on or before September 1, 1976.</p>
EP 310	Post Heat Eclipse Air Heat Oven 3.5 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.16, 7.08, 7.09, 40 CFR 63 Subpart NNNN	<p>Regulation 6.16 applies to any source that performs surface coating operations to large appliances and had a construction permit issued prior to May 15, 1991.</p> <p>Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.</p> <p>Regulation 7.09 applies to each process operation that is not otherwise regulated by other regulations of Part 7 and commenced construction after April 19, 1976.</p> <p>40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.</p>

ii. **Standards/Operating Limits**

1) **CO**

Regulation 7.09, section 5 establishes CO emission limits.

2) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

3) **NO_x**

(a) Regulation 7.08, section 4 establishes NO_x emission limits.

(b) See the plantwide section.

4) **Opacity**

Regulation 6.09, section 3.2 and Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

5) **PM**

(a) The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 6.09, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.58 lb/hr for EP309 fluid bed.

(b) The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for EP310 fluid bed.

6) **SO₂**

Regulation 7.09, section 4 establishes SO₂ emission limits.

7) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

8) **VOC**

Regulation 6.16 establishes VOC content limits of the coatings or limits discharge into the atmosphere of no more than 15% by weight of the VOCs input into the facility.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) **VOC**

Regulation 6.16 establishes monitoring and record keeping for surface coating of large appliances.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

g. **Emission Units U81 and U82 – Gas-fired Boilers and Indirect-fired Process Heat Exchangers**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 908	Boiler # 6 rated at 90.8 MM Btu/hr while combusting natural gas or landfill gas; equipped with low NO _x burners	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.07, 6.42, 40 CFR 63 Subpart DDDDD	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 6.07 applies to each indirect heat exchanger of 1 million or more BTU per hour heat input which was in being or under construction before April 19, 1972.
EP 909	Boiler #8 rated at 60.9 MM Btu/hr equipped with low NO _x burners	5.00, 5.01, 5.20, 5.21, 5.22, 5.23,	

Emission Point	Description	Applicable Regulation	Basis for Applicability
	with landfill gas as backup	7.06, 40 CFR 60 Subpart Dc, 40 CFR 63 Subpart DDDDD	Regulation 6.42 establishes the requirements for RACT determination, demonstration, and compliance for VOC and NO _x emitting facilities for new or renewed operating permit applications.
325	AP-4 Boiler #1, 5 MMBtu/hr, make Cleaver Brooks, model FLEX500	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.06, 40 CFR 63 Subpart DDDDD	Regulation 7.06 provides for the control of emissions from new indirect heat exchangers.
326	AP-4 Boiler #2, 5 MMBtu/hr, make Cleaver Brooks, model FLEX500		40 CFR 63 Subpart DDDDD establishes national emission limitations and work practice standards for HAPs emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP.
AP1HA1	Wash System for Stainless Steel Washer and Dryer Baskets that consists of a heated bath that has a natural gas fired burner for heating. The Immersion Heater is an Eclipse ImmersoPak IP-010 3.2 MMBtu/hr		
AP1BM1	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-1)		
AP1BM2	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-1)		
AP1BM3	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-1)		Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
AP2BM1	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-2)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.06, 40 CFR 63 Subpart DDDDD	Regulation 6.07 applies to each indirect heat exchanger of 1 million or more BTU per hour heat input which was in being or under construction before April 19, 1972.
AP2BM2	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-2)		Regulation 6.42 establishes the requirements for RACT determination, demonstration, and compliance for VOC and NO _x emitting facilities for new or renewed operating permit applications.

Emission Point	Description	Applicable Regulation	Basis for Applicability
AP2BM3	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-2)		Regulation 7.06 provides for the control of emissions from new indirect heat exchangers.
AP3BM1	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-3)		40 CFR 63 Subpart DDDDD establishes national emission limitations and work practice standards for HAPs emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP.
AP3BM2	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-3)		
AP3BM3	AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-3)		
EP-1A	Washer Immersion Heater Stage 1 Maxon 8" Tube-O-Therm rated at 5.3 MMBtu/hr (IA)		
EP-1B	Washer Immersion Heater Stage 2 Maxon 6" Tube-O-Therm rated at 3.0 MMBtu/hr (IA)		
IA01-2	Two (2) Eclipse ImmersoPak IP008 heater rated at 2.05 MMBtu/hr (IA)		
IA01-3	One (1) 7.5 MMBtu/hr Maxon Tube-O-Therm 8" HC for steel parts cleaning in AP1 (IA)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.06, 40 CFR 63 Subpart DDDDD	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.06 provides for the control of emissions from new indirect heat exchangers. 40 CFR 63 Subpart DDDDD establishes national emission limitations and work practice standards for HAPs emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP.
IA01-5	1.99 MMBtu/hr	5.00, 5.01,	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23

Emission Point	Description	Applicable Regulation	Basis for Applicability
	Bradford White hot water heater in the Park Athletic Club < 120 gallon tank (IA)	5.20, 5.21, 5.22, 5.23, 7.06	establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.06 provides for the control of emissions from new indirect heat exchangers.

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart DDDDD establishes emission limits, work practice standards, and operating limits for boilers and process heaters.

2) **NO_x**

See the plantwide section.

3) **Opacity**

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

4) **PM**

(a) Regulation 6.07 establishes lb/MMBtu PM emission rate for Boiler #6.

(b) Regulation 7.06 establishes lb/MMBtu PM emission rate for Boiler #8.

(c) 40 CFR 60 Subpart Dc establishes emission limits, work practice standards, and operating limits for Small Industrial-Commercial-Institutional Steam Generating Units.

5) **SO₂**

(a) Boiler #6 is subject to Regulation 6.07. The emission standard is determined in section 4.1.

(b) Boiler #8 is subject to Regulation 7.06. The emission standard is determined in section 5.1.1.

(c) 40 CFR 60 Subpart Dc establishes emission limits, work practice standards, and operating limits for Small Industrial-Commercial-Institutional Steam Generating Units.

6) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart DDDDD establishes monitoring and record keeping for boilers and process heaters.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart DDDDD establishes reporting for boilers and process heaters.

h. **Emission Unit U87 – Gasoline Storage Tank**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
Tank No. 900	Underground Gasoline Storage Tank 6000 gallons (AP26) with gasoline dispensing.	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.40, 7.15	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 6.40 establishes standards of performance for gasoline transfer to motor vehicles. Regulation 7.15 applies to the transfer of volatile organic compounds from transport vehicle tanks into storage tanks at new service stations constructed or reconstructed after June 13, 1979.

ii. **Standards/Operating Limits**

1) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

2) **VOC**

(a) Regulation 6.40 limits gallons throughput per month to 10,000 gallons.

(b) Regulation 7.15 establishes equipment operation and maintenance requirements for this tank and dispensing system.

i. **Emission Unit U100 – ABS Extruder (AP5)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 540	Milacron 3,500 lb/hr Cabinet Liner Extruder	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.

ii. **Standards/Operating Limits**

1) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability. The emission standard of 30,660,000 lb/12- consecutive month period is based on submitted SCREEN3 modeling on for Category 1 TAC Acrylonitrile.

2) **VOC**

Regulation 7.25 establishes VOC emission limits through BACT.

j. **Emission Unit U104-U107 – Metal Parts Fabrication (AP2)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 224	Lubricant for Door Panel Press #25001	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.
EP 225	Lubricant for Door Panel Press #25002		
EP 226	Lubricant for Door Panel Press #25378		
EP 227	Lubricant for Door Panel Press #58737		

ii. **Standards/Operating Limits**

1) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

2) **VOC**

Regulation 7.25 establishes VOC emission limits through BACT.

k. **Emission Unit U109 – Abrasive Blasting (Hanger Paint Stripping Process) (AP2)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP 239	One (1) abrasive blasting unit by Blastec utilizing steel shot rated at 320,000 lbs blast	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.

Emission Point	Description	Applicable Regulation	Basis for Applicability
	media per hour		Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.

ii. **Standards/Operating Limits**

1) **Opacity**

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

2) **PM**

(a) The emission standard for PM for EP 239 with a process throughput of greater than 30 tons/hr is determined in accordance with Regulation 7.08, section 3.1.2 as follows:

$$\text{PM lb/hr limit} = 17.31 \times (\text{process weight tons/hr})^{0.16}$$

3) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability. The Category 2 TAC Manganese emission standard is based on de minimis per controlled PTE.

1. **Emission Unit U111 – Emergency Generators – RICE MACT**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP U111a	AP1 Emergency Diesel-Fired Generator Engine Cummins model 1500 DFLE 2220 bhp Installed March 2006	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 40 CFR 63 Subpart ZZZZ	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish the requirements for Environmental Acceptability for TACs. The source is a Group I company. 40 CFR 60 Subpart ZZZZ applies to stationary reciprocating internal combustion engines located at major and area sources of HAP emissions.
EP AP3 Comms (IA)	AP3 Communications Center Natural Gas Fired Emergency		

Emission Point	Description	Applicable Regulation	Basis for Applicability
	Generator Engine Cummins model GGLA 198 HP Installed October 2006		
EP AP5 (IA)	AP5 Emergency Diesel-Fired Generator Engine Caterpillar model D330 150 HP Installed 1972		

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart ZZZZ establishes emission limits, work practice standards, and operating limits for Stationary Reciprocating Internal Combustion Engines.

2) **NO_x**

See the plantwide section.

3) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability. The emission standard of 245 hrs/12-consecutive month period is based on submitted SCREEN3 modeling on for Category 3 TAC Diesel Particulate Matter.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart ZZZZ establishes monitoring and record keeping for Stationary Reciprocating Internal Combustion Engines.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart ZZZZ establishes reporting for

Stationary Reciprocating Internal Combustion Engines.

m. **Emission Unit U112** – Emergency Generators – RICE MACT and NSPS CI ICE

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP DC#1	Kohler Diesel-Fired Emergency Generator Engine Kohler model 2500REOZDB 3675 HP Installed 2009	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 40 CFR 60 Subpart III, 40 CFR 63 Subpart ZZZZ	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. 40 CFR 60 Subpart III applies to manufacturers, owners, and operators of stationary compression ignition internal combustion engines. 40 CFR 60 Subpart ZZZZ applies to stationary reciprocating internal combustion engines located at major and area sources of HAP emissions.
EP DC#2	Kohler Diesel-Fired Emergency Generator Engine Kohler model 2500REOZDB 3675 HP Installed 2009		
AP23a (IA)	Mitsubishi S12A2-Y2PTAW-2 Emergency Generator Engine 900 kW Installed 2014		
AP23b (IA)	Mitsubishi S12A2-Y2PTAW-2 Emergency Generator Engine 900 kW Installed 2014		
EP IWT (IA)	Backup Emergency Diesel-Fired Generator Engine (IWT Generator) John Deere model 4024HF285B 80 HP Installed May 2015		

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart ZZZZ establishes emission limits, work practice standards, and operating limits for Stationary Reciprocating Internal Combustion Engines.

2) **NO_x**

See the plantwide section.

3) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability. The emission standard of 500 hrs/12-consecutive month period is based on submitted SCREEN3 modeling on for Category 3 TAC Diesel Particulate Matter.

4) **Unit Operation**

40 CFR 60 Subpart IIII establishes emission limits, work practice standards, and operating limits for Stationary Compression Ignition Internal Combustion Engines.

iii. **Monitoring and Recordkeeping**1) **Unit Operation**

40 CFR 60 Subpart IIII establishes monitoring and record keeping for Stationary Compression Ignition Internal Combustion Engines.

iv. **Reporting**1) **Unit Operation**

40 CFR 60 Subpart IIII establishes reporting for Stationary Compression Ignition Internal Combustion Engines.

n. **Emission Unit U310 – Nylon Rack Fluidized Bed Coating (AP3)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
AP3-310	Nylon Rack Coater Maxon Ovenpak II Preheat Oven 4.5 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.09	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
AP3-310a	Nylon Rack Coater 353 lb/hr KMI Fluidized Bed	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 40 CFR 63 Subpart NNNN	Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976. Regulation 7.09 applies to each process operation that is not otherwise regulated by other regulations of Part 7 and commenced construction after April 19, 1976.
AP3-310b	Nylon Rack Coater Maxon Ovenpak II Post-heat Oven 1.5 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.09, 7.59	Regulation 7.59 establishes the requirements for VOC emissions from new processes that commence construction after May 20, 1981.

ii. **Standards/Operating Limits**

1) **CO**

Regulation 7.09, section 5 establishes CO emission limits.

2) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

3) **NO_x**

(a) Regulation 7.08, section 4 establishes NO_x emission limits.

(b) See the plantwide section.

4) **Opacity**

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

5) **PM**

The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for the fluidized bed.

6) **SO₂**

Regulation 7.09, section 4 establishes SO₂ emission limits.

7) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

8) **VOC**

Regulation 7.59 established VOC emission rates for compliance coatings or a plantwide VOC emission limit if non-compliant coatings are used.

iii. **Monitoring and Recordkeeping**1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) **VOC**

Regulation 7.59 establishes monitoring and record keeping for surface coating of metal parts.

iv. **Reporting**1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

o. **Emission Unit U311 – Adhesive for End Caps on Dishwasher Racks (AP3)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
AP3-311	Rack End Cap Adhesive	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25, 40 CFR 63 Subpart NNNN	<p>Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.</p> <p>Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.</p> <p>40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.</p>

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

2) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

3) **VOC**

Regulation 7.25 establishes VOC emission limits for all plantwide equipment subject to the regulation without a BACT.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

p. **Emission Unit U500** – Touch-Up Paint, Adhesives and Lubricating the Spine Fin Evaporator Bottom Mount Freezer Refrigerator Line (AP5)

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP-500	Touch-Up Paint, Adhesives and Lubricating the Spine Fin Evaporator	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25, 40 CFR 63 Subpart NNNN	<p>Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.</p> <p>Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.</p> <p>40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.</p>

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

2) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

3) **VOC**

Regulation 7.25 establishes VOC emission limits through BACT.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

q. **Emission Unit U510 – Bottom Mount Freezer Refrigerator Line (AP5)**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP-510	Doerfer Insulating Foam Line (IFL-1)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.
EP-511	Bottom Mount Freezer Refrigerator Main Extruder Line (3,000 lb/hr)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
EP-512	Bottom Mount Freezer Refrigerator Small Extruder Line (800 lb/hr)		

ii. **Standards/Operating Limits**

1) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability. The cumene emission standard is based on de minimis per controlled PTE.

2) **VOC**

Regulation 7.25 establishes VOC emission limits through BACT.

r. **Emission Unit U530 – AP2 Metallic Powder Paint (TV-14-1012-C)**i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
EP-2A	Infrared dry off Oven KMI Catalytic Custom rated at 2.0 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.59, 40 CFR 63 Subpart NNNN	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
EP-3	Electrostatic powder paint booth - basecoat Gema model Equiflow with process cyclone	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 40 CFR 63 Subpart NNNN	
EP-4A	Infrared gel oven for sintering of basecoat powder paint	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.59, 40 CFR 63 Subpart NNNN	Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
EP-4B	Basecoat Infrared gel Oven KMI Catalytic Custom rated at 1.6 MMBtu/hr		Regulation 7.59 establishes the requirements for VOC emissions from new processes that commence construction after May 20, 1981.
EP-5	Electrostatic powder paint booth – clear coat Gema model Diamond with a process cartridge filters	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 40 CFR 63 Subpart NNNN	40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.
EP-6A	Infrared gel oven for sintering of clearcoat powder paint	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.59, 40 CFR 63 Subpart NNNN	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
EP-6B	Clearcoat Infrared gel Oven KMI Catalytic Custom rated at 1.6 MMBtu/hr		Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
EP-7A	Cure oven for curing of powder paints KMI Custom	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.59, 40 CFR 63 Subpart NNNN	Regulation 7.59 establishes the requirements for VOC emissions from new processes that commence construction after May 20, 1981.
EP-7B	Natural gas-fired cure oven KMI Custom rated at 4.5 MMBtu/hr		40 CFR 63 Subpart NNNN establishes national emission standards for hazardous air pollutants for large appliance surface coating facilities.
EP-IA8	Stainless Steel Dish Door Wipe	5.00, 5.01, 5.20, 5.21,	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental

Emission Point	Description	Applicable Regulation	Basis for Applicability
	(Non-BACT)	5.22, 5.23, 7.25	Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart NNNN establishes emission limits, work practice standards, and operating limits for surface coating of large appliances.

2) **Opacity**

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

3) **PM**

The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for each powder coating booth per Regulation 7.08, Section 3.1.2.

4) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability. The Category 1 TAC Aluminum emission standard is based on de minimis per controlled PTE.

5) **VOC**

(a) Regulation 7.59 established VOC emission rates for compliance coatings or a plantwide VOC emission limit if non-compliant coatings are used.

- (b) Regulation 7.25 establishes VOC emission limits for all plantwide equipment subject to the regulation without a BACT.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart NNNN establishes monitoring and record keeping for surface coating of large appliances.

2) **VOC**

Regulation 7.59 establishes monitoring and record keeping for surface coating of metal parts.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart NNNN establishes reporting for surface coating of large appliances.

s. **Emission Unit – Solvent Metal Cleaning Equipment**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
Solvent Metal Cleaning Equipment (Secondary Reservoirs) (IA)	Thirty (30) cold solvent parts cleaners are equipped with secondary reservoirs	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.18	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
Solvent Metal Cleaning Equipment (No Secondary Reservoirs)	Twelve (12) cold solvent parts cleaners are not equipped with secondary reservoirs		Regulation 6.18 applies to any cold cleaners, open top vapor degreasers, and conveyORIZED degreasers that use VOCs to remove soluble impurities from metal surfaces.

ii. **Standards/Operating Limits**

1) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established

requirements for Group I sources to demonstrate environmental acceptability.

2) **VOC**

Regulation 6.18 establishes equipment maintenance and operating requirements for these solvent cleaning tanks.

t. **Emission Unit – Miscellaneous**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
32675-11	AP-1 Regrinder in AP1. Two (2) Tub Regrinders rated at 4,000 lb/hr each installed in 1974.	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.09	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 6.09 applies to each process operation that is the affected facility not otherwise regulated by any other portion of Regulation 6 and that was in existence or had a construction permit issued by the District on or before September 1, 1976. Regulation 6.24 applies to any affected facility using any organic materials which was in being or had a construction permit issued by the District prior to the effective date of this regulation except when a specific regulation exists for the source. Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.
37206-13	5,500 lb/hr Hosokawa 80/140 CL Grinder and 4,500 lb/hr Hosokawa 60/140 CL Grinder with three process cyclones and a Kice VR60-10N baghouse in AP-5	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08	
176-93	Miscellaneous chemical use in assembly/packing operations in the manufacture of refrigerators in AP5.	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
178-93	Miscellaneous chemical use in assembly/packing operations in the manufacture of dishwashers in AP3.		
483-92	Miscellaneous chemical use in assembly/packing operations in the manufacture of washers and dryers in AP1.	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.24	
479-94	Sealant to reseal	5.00, 5.01,	

Emission Point	Description	Applicable Regulation	Basis for Applicability
	appliance cartons prior to shipment from AP10.	5.20, 5.21, 5.22, 5.23, 7.25	
35-04	Maintenance Paint Booth (Insignificant Activity)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 6.09 applies to each process operation that is the affected facility not otherwise regulated by any other portion of Regulation 6 and that was in existence or had a construction permit issued by the District on or before September 1, 1976. Regulation 6.24 applies to any affected facility using any organic materials which was in being or had a construction permit issued by the District prior to the effective date of this regulation except when a specific regulation exists for the source. Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.
583-92	Washer and dryer Paint Touch-up in AP1.		
471-94	One (1) Dishwasher rack repair station.		
585-91	Drawing compound and lubricant used in hydraulic presses and other fabrication operations in AP1.	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
U149	Pedestal Touch-up Painting on washers and dryers in AP1.		
U150	Touch-up Painting on dishwashers in AP3.		
Injecting Molding	One Hundred and thirty-seven (137) Plastics compression or injection molding located in AP1, AP3, AP4, and AP5 (Regulation 7.25 BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08, 7.25	

ii. **Standards/Operating Limits**

1) **Opacity**

Regulation 6.09, section 3.2 and Regulation 7.08, section

3.1.1 establishes limits for visible emissions.

2) **PM**

- (a) The emission standard for PM for 32675-11 with a process throughput of less than 30 tons/hr is determined in accordance with Regulation 6.09, section 3.2 as follows:

$$\text{PM lb/hr limit} = 4.10 \times (\text{process weight tons/hr})^{0.67}$$

- (b) The emission standard for PM for 37206-13 80/140 CL Grinder with a process throughput of less than 30 tons/hr is determined in accordance with Regulation 7.08, section 3.1.2 as follows:

$$\text{PM lb/hr limit} = 3.59 \times (\text{process weight tons/hr})^{0.62}$$

- (c) The emission standard for PM for 37206-13 60/140 CL Grinder with a process throughput of less than 30 tons/hr is determined in accordance with Regulation 7.08, section 3.1.2 as follows:

$$\text{PM lb/hr limit} = 3.59 \times (\text{process weight tons/hr})^{0.62}$$

- (d) The emission standard for PM for 35-04 is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for each 35-04 and 520.

- (e) The emission standard for PM for Injection Molding is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for Injection Molding.

3) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

4) **VOC**

- (a) Regulation 7.25 establishes VOC emission limits for

176-93 through BACT.

- (b) Regulation 7.25 establishes VOC emission limits for 178-93 through BACT.
- (c) Regulation 7.25 establishes VOC emission limits for 479-94 through BACT.
- (d) Regulation 7.25 establishes VOC emission limits for 585-91 through BACT.
- (e) Regulation 7.25 establishes VOC emission limits for 583-92 through BACT.
- (f) Regulation 7.25 establishes VOC emission limits for 471-94 through BACT.
- (g) Regulation 7.25 establishes VOC emission limits for 35-04 through BACT.
- (h) Regulation 7.25 establishes VOC emission limits for 483-92 through BACT.
- (i) Regulation 7.25 establishes VOC emission limits for Injection Molding through BACT.
- (j) Regulation 7.25 establishes VOC emission limits for all plantwide equipment subject to the regulation without a BACT.
- (j) Regulation 6.24 establishes limits for organic material usage and VOC emission limits for 483-92.

u. **Emission Units IA01** – Insignificant Activity Indirect-fired Combustion Sources <1 MMBtu/hr

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA01-1	One (1) AP3 Nylon Heater rated at 0.9 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 40 CFR 63 Subpart DDDDD	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. 40 CFR 63 Subpart DDDDD establishes

Emission Point	Description	Applicable Regulation	Basis for Applicability
			national emission limitations and work practice standards for HAPs emitted from industrial, commercial, and institutional boilers and process heaters located at major sources of HAP.
IA01-6	(>50) Indirect-fired Hot Water heaters located throughout the plant all less than 1.0 MMBtu/hr	5.00, 5.01, 5.20, 5.21, 5.22, 5.23	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company
IA01-7	Three (3) 0.1 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)		
IA01-8	Seven (7) 0.2 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company
IA01-9	Fifteen (15) 0.25 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)		
IA01-10	Nine (9) 0.3 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)		
IA01-11	Eleven (11) 0.4 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)		
IA01-12	Three (3) 0.03 MMBtu/hr: Qmark MUH-10-41 (10 kW) (Indirect Fired Space/comfort heaters)		

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA01-13	Five (5) 0.125 MMBtu/hr heater (Indirect Fired Space/comfort heaters)		
IA01-14	Thirteen (13) 0.3 MMBtu/hr heater (Indirect Fired Space/comfort heaters)		

ii. **Standards/Operating Limits**

1) **HAP**

40 CFR 63 Subpart DDDDD establishes emission limits, work practice standards, and operating limits for boilers and process heaters.

2) **NO_x**

See the plantwide section.

3) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

iii. **Monitoring and Recordkeeping**

1) **HAP**

40 CFR 63 Subpart DDDDD establishes monitoring and record keeping for boilers and process heaters.

iv. **Reporting**

1) **HAP**

40 CFR 63 Subpart DDDDD establishes reporting for boilers and process heaters.

v. **Emission Unit IA02** – Insignificant Activity Regulation 7.25 Process Equipment

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA02-1	Cleaner and Lubricant Use for new Bottom Mount Assembly Operation (Regulation 7.25 non –BACT process)		
IA02-5	Stainless Dishwasher Steel Tub Assembly (Regulation 7.25 non – BACT process)		
IA02-6	Dishwasher Door Mastic Application (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7.
IA02-7	Tub Top and Bottom Mastic Application (Regulation 7.25 non – BACT process)		
IA02-8	Tub Wrap Mastic Application (Regulation 7.25 non –BACT process)		
IA02-9	AP1 RTV Silicone Station (Regulation 7.25 non –BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
IA02-10	Two (2) Pad Printing (Regulation 7.25 non – BACT process)		Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA02-12	Small Freezer Door Foaming Operation (Regulation 7.25 non – BACT process)		
IA02-13	Aerosol spray adhesive usage in the warehouse for replacing loose labels on boxes prior to shipping (Regulation 7.25 non –BACT process)		
IA02-14	AP2 Zonline Mastic Curing Operation (Regulation 7.25 non – BACT process)		
IA02-15	AP2 Metallic PP Pretreatment Washing Tunnel (Regulation 7.25 non –BACT process)		
IA02-16	MEK Quality Test Metallic Powder Painted Parts (AP2) (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7
IA02-17	Three (3) Ultrasonic Cleaner for Powder Paint Tools (Regulation 7.25 non –BACT process)		
IA02-18	Ten (10) Touch-up Paints and Adhesives not subject to 40 CFR 63, Subpart NNNN (Regulation 7.25 non – BACT process)		
IA02-19	HA Drum Fabrication Lubricant (Regulation 7.25 non –BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.25 establishes the requirements

Emission Point	Description	Applicable Regulation	Basis for Applicability
			for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7
IA02-20	Swedging/Cutting Lubricant application (Regulation 7.25 non – BACT process)		
IA02-21	Evaporator De-Fin Lubricant application (Regulation 7.25 non – BACT process)		
IA02-22	Waste water Treatment plant consisting of two (2) clarifiers, two filter presses, chemicals, and a skimmer (Regulation 7.25 non-BACT process, Emission Unit IA02)		
IA02-23	Solvent-based Ultrasonic Cleaner AP5		Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
IA02-24	Soil or groundwater remediation System	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	Regulation 7.25 establishes the requirements for VOC emissions from new processes that commence construction after December 16, 1987 not otherwise regulated in Part 7
IA02-25	Tri-Flow lubricant for Die Maintenance (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
IA02-26	Bumper repair using Loctite Prism 401 adhesive or similar material, Lines 7, 8, and 9 (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
IA02-27	AP5 Fresh Food Door-in-Door Foaming (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA02-28	AP1 Laundry Stamping: Aida and CMI Presses, Draw-Clean 660 usage (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
IA02-29	AP4 Injection molding – Mold release, cleaner, and preventatives usage (aerosol spray cans) (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
IA02-30	AP10 Contractor Package regluing (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	
IA02-31	AP1, lines 7 and 8 Capacitor lubricant for ergonomics (Regulation 7.25 non – BACT process)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.25	

i. Standards/Operating Limits

1) Opacity

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

2) PM

The emission standard for PM for IA02-1 is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for each injection molding machine.

3) TAC

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

4) VOC

Regulation 7.25 establishes VOC emission limits for all

plantwide equipment subject to the regulation without a BACT.

w. **Emission Unit IA03 – Insignificant Activity Regulation 7.08 Process Equipment**

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA03-1	Sixty (60) Brazing, soldering, or welding equipment (Regulation 7.08)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
IA03-2	Pedestal Plastic Regrinder (Regulation 7.08)		
IA03-5	Brazing, Soldering or Welding on Nylon Wire Rack Line (Regulation 7.08)		
IA03-6	Nylon powder transfer/clean-up activities (Regulation 7.08)		
IA03-7	Pellet Grinder and process cyclone make Granutec G3030 (Regulation 7.08)		
IA03-8	Grinding operation for the AP3 Ash White Tub Re-grinder (Regulation 7.08)		
IA03-9	Ten (10) Small Regrinders in AP4 used to recycle plastic (Regulation 7.08)		

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA03-10	Small Regrinders in AP5 used to recycle plastic (Regulation 7.08)		
IA03-11	Unloading, Conveyance and Storage of Plastic Pellets in AP1 (Regulation 7.08)		
IA03-12	Unloading, Conveyance and Storage of Plastic Pellets in AP3 (Regulation 7.08)		
IA03-13	Unloading, Conveyance and Storage of Plastic Pellets in AP4 (Regulation 7.08)		
IA03-14	Unloading, Conveyance and Storage of Plastic Pellets in AP5 (Regulation 7.08)		
IA03-15	Thirteen (13) Cooling towers: (Regulation 7.08) AP-1 Front Tower AP-2 Rear Tower AP-2 Front Tower AP-2 Outlying Tower AP-3 North Tower AP-4 South Tower AP-4 Front Tower AP-4 Plastics Tower AP-5 Plastics Tower AP-5 Front Tower AP-20 Tower AP-32 Tower AP-33 Tower	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08	

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA03-17	Two (2) Sanding process to scuff-sand defective painted parts on downdraft table with cartridges (Regulation 7.08)		
IA03-18 Brazing, Soldering or Welding on HEWH Line (Regulation 7.08)	Two (2) Hot Plate Welding of Plastic Parts (Regulation 7.08)		Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
IA03-19	One (1) Central Vacuum System for AP1	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.08	Regulation 7.08 establishes the requirements for PM emissions from new processes that commence construction after September 1, 1976.
IA03-20	Central Vacuum System for AP2		

i. **Standards/Operating Limits**

1) **Opacity**

Regulation 7.08, section 3.1.1 establishes limits for visible emissions.

2) **PM**

The emission standard for PM for the equipment in this Emission Unit is determined in accordance with Regulation 7.08, Table 1. Since the capacity of the equipment is less than 1,000 lb/hr, the PM emission standard is 2.34 lb/hr for each piece of equipment.

3) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate

environmental acceptability.

x. **Emission Unit IA04 (U89) – VOC Storage Tank**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA Tank 1	Generator Tank; 2500 gallons Installation date unknown		
IA Tank 2	Generator Tank; 10,000 gallons Installation date unknown		
IA Tank 3	Generator Tank; 10,000 gallons Installation date unknown		
IA Tank 4	Generator Tank; 2859 gallons Installation date unknown		
IA Tank 5	Generator Tank; 2859 gallons Installation date unknown	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.12	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.12 applies to each storage vessel for volatile organic compounds that had a construction permit issued by the District after April 19, 1972 and that has a storage capacity greater than 250 gallons.
IA Tank 6	Underground Storage Tank (UST); 6000 gallons Installation date unknown		
IA Tank 7	Seven (7)Hydraulic Oil Storage Tanks: (1) 6000 gallon, (1) 2000 gallon (used oil), (2) 15,000 gallon, (1) 25,000 gallon (used oil); (2) 10,000 gallon (1-used oil) Installation dates unknown		
IA Tank 8	Twelve (12) Compressor Oil Tanks: (3) 10,000		

Emission Point	Description	Applicable Regulation	Basis for Applicability
	gallon; (9) 550 gallon, Installation date unknown		
IA Tank 9	Three (3) Lubricating Oil Tanks, each 1000 gallon, Installation date unknown	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 7.12	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 7.12 applies to each storage vessel for volatile organic compounds that had a construction permit issued by the District after April 19, 1972 and that has a storage capacity greater than 250 gallons.
IA Tank 10	Three (3) Used Oil Tanks: (1) 550 gallon, (1) 1000 gallon, (1) 2000 gallon, Installation date unknown		

ii. **Standards/Operating Limits**

1) **TAC**

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

2) **VOC**

Regulations 6.13 and 7.12 establishes storage equipment vapor pressure requirements for Volatile Organic Compounds.

y. **Emission Unit IA05 – Combustion Source not accounted for in any other emission unit**

i. **Equipment:**

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA05-1	One (1) 2.0 MMBtu/hr AP1 Make Up Air Heater, Maxon 2.0 APX Line Burner (Direct fired unit)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.42	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company. Regulation 6.42 establishes the requirements for RACT
IA05-2	Three (3) 0.757 MMBtu/hr: Cambridge S800 direct fired heat exchangers (Space/comfort heaters)		

Emission Point	Description	Applicable Regulation	Basis for Applicability
IA05-3	Two (2) 0.400 MMBtu/hr: Cambridge S400 direct fired heat exchangers (Space/comfort heaters)		determination, demonstration, and compliance for VOC and NO _x emitting facilities for new or renewed operating permit applications.
IA05-4	Six (6) 1.2 MMBtu/hr: Cambridge S1200 direct fired heat exchanger (Space/comfort heaters)		
IA05-5	Twelve (12) 1.499 MMBtu/hr: Cambridge S1600 direct fired heat exchanger (Space/comfort heaters)		
IA05-6	Three (3) 2.2 MMBtu/hr: Cambridge S2200 direct fired heat exchanger (Space/comfort heaters)		
IA05-7	Forty-five (45) 3.107 MMBtu/hr: Cambridge S3200 direct fired heat exchanger (Space/comfort heaters)	5.00, 5.01, 5.20, 5.21, 5.22, 5.23, 6.42	Regulations 5.00, 5.01, 5.20, 5.21, 5.22, 5.23 establish requirements for Environmental Acceptability for TACs. The source is a Group I company.
IA05-8	Five (5) 5.887 MMBtu/hr: Cambridge M136 direct fired heat exchanger (Space/comfort heaters)		Regulation 6.42 establishes the requirements for RACT determination, demonstration, and compliance for VOC and NO _x emitting facilities for new or renewed operating permit applications.
IA05-9	One (1) 7 MMBtu/hr natural gas dryoff oven (Direct fired Unit)		
IA05-10	One (1) HA Gas Dryer Test Loop		

i. Standards/Operating Limits

1) NO_x

See the plantwide section.

2) TAC

Regulation 5.00, 5.01, 5.20, 5.21, 5.22, and 5.23 established requirements for Group I sources to demonstrate environmental acceptability.

5. New Source Review/Prevention of Significant Deterioration (NSR/PSD)

Limits

- i. The following is a list of equipment that previously had individual NSR/PSD avoidance limits removed as construction permit C-33318-11-C was issued 9/27/2011 giving the source a plantwide VOC and NOx avoidance emission limits.

Emission Point	Description
EP100A	Two (2) Gema Volstatic powder coating booths ¹ with process reclamation system
EP100B	Mahon Custom Electric Cure Oven
EP 210A	Dip Tank
EP 210B	Post-Rinse Spray
EP213	Paint Curing Oven #1 for Black, natural gas-fired
EP214	Paint Curing Oven #2 for Colors, natural gas-fired
EP214B	Double tunnel phosphator
EP214C	Electrostatic Application of Powder Paint consisting of two (2) powder coating operations each equipped with a reclamation system consisting of a cyclone and dust collector with twelve filters.
EP305	One (1) Natural Gas Fired Preheat Eclipse Oven rated at 2.6 MMBtu/hr
EP309	Fluid Bed
EP310	Post Heat Eclipse Air Heat Oven 3.5 MMBtu/hr

III. Other Requirements

- 1. Temporary Sources:** The source did not request to operate any temporary facilities.
- 2. Short Term Activities:** The source did not report any short term activities.
- 3. Emissions Trading:** N/A
- 4. Operational Flexibility:** The source has not requested operational flexibility.
- 5. Compliance History:**

¹ The MSDS/SDS for the powder paints used show that they contain no TACs.

Incident Date(s)	Regulation Violated	Result
12/23/1989	6.16, Section 3 Appliance Coatings	Board Order 5-90
11/21/1990	5.04, Section 6 Standard for Demolition and Renovation; 5.13, Section 4(1), 6, 11, 14, 15 Work Practice	Agreement A-2-92
1/7/1991	2.03, Section 1.a Permit Requirements; 7.25, Section 1.b Performance Standards of Performance For New Sources Using Volatile Organic Compounds	Board Order 2-91
10/31/1991	6.16, Section 5.1 Excess VOC Emissions	Agreement A-14-92
10/30/1992	1.09 Prohibition of Air Pollution	Agreement A-79-92
4/1/1999	1.09 Prohibition of Air Pollution	Settled

6. Calculation Methodology or Other Approved Method:

The emissions shall be calculated according to the following methodology or another method approved in writing by the District. Emissions are calculated by multiplying the throughput (ton, MMCF, gallons, etc) or hours of operation of the equipment by the appropriate emission factor and take into account control devices, reclamation units and building fallout factors if applicable. In lieu of recording annual throughputs and calculating actual annual emissions, the owner or operator may elect to report the pollutant Potential To Emit (PTE) quantity listed in the Insignificant Activities table, as the annual emission for each piece of equipment that is designated as an IA.

Acronyms

FE – Filter Efficiency (e.g. baghouse, HEPA filter, cyclone, reclamation unit, etc.)
 FOF – PM Fall Out Factor
 GRR – Grit Removal Rate
 MT – Material Throughput
 TE – Transfer Efficiency
 RE – Recovery Capture Efficiency

*Note for AP-42 Chapter 1.4 External Combustion Sources – Natural Gas Combustion:

EPA has updated the particulate matter (TSP, PM condensable, PM10, and PM2.5 filterable) emission factors for natural gas combustion in March 2012 Emission Inventory and Analysis Group. The following are the new emission factors:

Pollutant	New Value
TSP	0.52 lb/MMCF
PM condensable	0.32 lb/MMCF
PM filterable	0.20 lb/MMCF

PM ₁₀	0.52 lb/MMCF
PM _{2.5}	0.43 lb/MMCF

Table 1 Unit U01: Powder Paint System (AP1)

Equipment	Emission Point	Emission Calculation
Powder Coating Booth	EP 100A	PM: $\left(MT, \frac{lb}{hr} \right) (1 - 60\% TE)(1 - 90\% RE)(1 - 70\% FOF)(1 - 70\% FOF)(1 - 90\% FE)$
Cure Oven	EP 100 B	VOC: $\left(MT, \frac{lb}{hr} \right) (Material\ VOC\ \% \ at\ cure\ temperature)$ HAP: $\left(MT, \frac{lb}{hr} \right) (Material\ HAP\ \% \ at\ cure\ temperature)$

Table 2 Unit U04: E-Coat Prime (AP2)

Equipment	Emission Point	Emission Calculation
Dip Tank	EP 210A	VOC: $\left(MT, gal/hr \right) (Density, lb/gal) (Material\ VOC\ \%)$
Post-Rinse Spray	EP 210B	
Dehydrator	EP 206	
Cure Oven 3.5 MMBtu/hr	EP 207	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Cooling/Drip Tunnel	EP 208	VOC: $\left(MT, gal/hr \right) (Density, lb/gal) (Material\ VOC\ \%)$
Cooling/Drip Tunnel	EP 209	

Table 3 Unit U30: Powder Paint System (AP2)

Equipment	Emission Point	Emission Calculation
Paint Curing Oven #1	EP 213	VOC: $\left(MT, \frac{lb}{hr} \right) (Material\ VOC\ \% \ at\ cure\ temperature)$ HAP: $\left(MT, \frac{lb}{hr} \right) (Material\ HAP\ \% \ at\ cure\ temperature)$ See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Paint Curing Oven #2	EP 214	

Equipment	Emission Point	Emission Calculation
Double tunnel phosphator pretreat washer	EP-214B	VOC: (<i>MT, lb/hr</i>)(<i>Material VOC %</i>) HAP: (<i>MT, lb/hr</i>)(<i>Material HAP %</i>)
Powder Coating Booth	EP 214C	PM: $\left(MT, \frac{lb}{hr} \right) (1 - 60\% TE) (1 - 90\% RE) (1 - 70\% FOF) (1 - 70\% FOF) (1 - 90\% FE)$

Table 4 Unit U40: Rack Prime Dip (AP3)

Equipment	Emission Point	Emission Calculation
Prime Dip Tank	EP 304	VOC: (<i>MT, lb/hr</i>)(<i>Material VOC %</i>) HAP: (<i>MT, lb/hr</i>)(<i>Material HAP %</i>)
Oven	EP 305	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Prime Drip Chamber	EP 306	VOC: (<i>MT, lb/hr</i>)(<i>Material VOC %</i>) HAP: (<i>MT, lb/hr</i>)(<i>Material HAP %</i>)

Table 5 Unit U42: PVC Fluidized Bed (AP3)

Equipment	Emission Point	Emission Calculation
Fluid Bed	EP 309	<p>PM:</p> $MT \times \left(\frac{0.00047 \text{ lb}_{PM}}{\text{lb}_{media}} \right)$ <p>OR</p> <p>$EF \times t$</p> <p>EF is the emission factor based on an August 2010 stack test. The value is 0.08 lb/hr through 2020. A new emission rate test must be conducted prior to December 2020 to continue using this methodology.</p> <p><i>t</i> is the time that the fluidized bed operates.</p> <p>If a new stack test is not conducted prior to December 2020, PM emissions from this point must be calculated using:</p> $(MT, \text{lb/hr})(1 - 60\% TE)(1 - 70\% FOF)$ <p>VOC:</p> $\left(MT, \frac{\text{lb}}{\text{hr}} \right) (\text{Material VOC } \% \text{ at cure temperature})$ <p>HAP:</p> $\left(MT, \frac{\text{lb}}{\text{hr}} \right) (\text{Material HAP } \% \text{ at cure temperature})$
Oven	EP 310	<p>See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion</p>

Table 6 Unit U81 and U82: Gas-fired Boilers

Equipment	Emission Point	Emission Calculation
Boiler #6	EP 908	<p>See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion</p>
Boiler #8	EP 909	
AP-4 Boiler #1	325	
AP-4 Boiler #2	326	
Immersion Heater	AP1HA1	
AP-1 AERCO Boiler	AP1BM1	
AP-1 AERCO Boiler	AP1BM2	
AP-1 AERCO Boiler	AP1BM3	
AP-2 AERCO Boiler	AP2BM1	

Equipment	Emission Point	Emission Calculation
AP-2 AERCO Boiler	AP2BM2	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
AP-2 AERCO Boiler	AP2BM3	
AP-3 AERCO Boiler	AP3BM1	
AP-3 AERCO Boiler	AP3BM2	
AP-3 AERCO Boiler	AP3BM3	
Immersion Heater Stage 1	EP-1A	
Immersion Heater Stage 2	EP-1B	
Two (2) AP-1 SS Tub Immersion Heaters	IA01-2	
ImmersoPak heater	IA01-3	
AP-1 steel part cleaning Maxon Tube oven	IA01-5	

Table 7 Unit U87: Gasoline Storage Tank and Dispensing

Equipment	Emission Point	Emission Calculation
Gasoline Storage Tank and Dispensing	Tank No. 900	See AP-42 Chapter 5.2: Petroleum Industry – Transportation and Marketing of Petroleum Liquids

Table 8 Unit U100: ABS Extruder (AP5)

Equipment	Emission Point	Emission Calculation
Cabinet Liner Extruder	EP 540	<p>VOC: $(MT, lb/hr)(Emission\ Factor\ 0.000231\ (lb\ Voc) / (lb\ ABS\ Extruded))$</p> <p>HAP/TAC: $(MT, \frac{lb}{hr})(Emission\ Factor\ 0.0001871\ (lb\ HAP) / (lb\ ABS\ Extruded))$</p>

Table 9 Unit U104 – U107: Metal Parts Fabrication (AP2)

Equipment	Emission Point	Emission Calculation
Lubricant for Door Panel Press #25001	EP 224	VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$
Lubricant for Door Panel Press #25002	EP 225	
Lubricant for Door Panel Press #25378	EP 226	
Lubricant for Door Panel Press #58737	EP 227	

Table 10 Unit U109: Abrasive Blasting (Hanger Paint Stripping Process) (AP2)

Equipment	Emission Point	Emission Calculation
Abrasive Blasting Unit	EP 239	<p style="text-align: center;">Controlled PM:</p> $PM_{controlled} = EF_C \times (hours)(1 - \eta_1)(1 - \eta_2)(1 - FOF)$ <p>Where</p> $EF_C = \left[\frac{total\ waste\ collected/hours\ of\ operation}{\eta_1} \right] lb/hr$ <p> $\eta_1 = 98\%$ $\eta_2 = 90\%$ $FOF = 70\%$ </p> <p style="text-align: center;">Uncontrolled PM:</p> $PM_{uncontrolled} = EF_u \times (thruput) \times (hours) \times (1 - \eta_1)(1 - \eta_2)(1 - FOF)$ <p>Where</p> $EF_u = 2.7\ lb_{PM}/(1000\ lb_{abrasive})$ $thruput = 320,000\ lb/hr$ <p style="text-align: center;">HAP</p> <p>Calculated using the same formulae as for PM, except</p> $EF_C = 40 \times (\%manganese)\ lb/hr$ <p>and</p> $EF_u = \{ [2.7 \times (\%manganese)]\ lb_{Mn} / (1000\ lb_{abrasive}) \}$

Table 11 Unit U111: Emergency Generators – RICE MACT

Equipment	Emission Point	Emission Calculation
AP1 Emergency Engine	EP U111a	See AP-42 Chapter 3: Stationary Internal Combustion Sources Section 3.2: Natural Gas-fired Reciprocating Engines Section 3.3: Gasoline and Diesel Industrial Engines Manufacturer data should be used instead of AP-42 when applicable
AP3 Communications Emergency Engine	EP AP3 Comms (IA)	

Equipment	Emission Point	Emission Calculation
AP5 Emergency Engine	EP AP5 (IA)	

Table 12 Unit U112: Emergency Generators – RICE MACT and NSPS CI ICE

Equipment	Emission Point	Emission Calculation
Kohler Emergency Engine	EP DC#1	See AP-42 Chapter 3: Stationary Internal Combustion Sources Section 3.2: Natural Gas-fired Reciprocating Engines Section 3.3: Gasoline and Diesel Industrial Engines Manufacturer data should be used instead of AP-42 when applicable
Kohler Emergency Engine	EP DC#2	
Backup Emergency Engine	EP IWT (IA)	
Mitsubishi Emergency Engine	AP23a (IA)	
Mitsubishi Emergency Engine	AP23b (IA)	

Table 13 Unit U310: Nylon Rack Fluidized Bed Coating (AP3)

Equipment	Emission Point	Emission Calculation
Preheat Oven	AP3-310	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion

Equipment	Emission Point	Emission Calculation
Fluidized Bed	AP3-310a	<p>PM:</p> $MT \times \left(\frac{0.00047 \text{ lb}_{PM}}{\text{lb}_{media}} \right)$ <p>OR</p> <p>EF × <i>t</i></p> <p>EF is the emission factor based on an August 2010 stack test. The value is 0.08 lb/hr through 2020. A new emission rate test must be conducted prior to December 2020 to continue using this methodology.</p> <p><i>t</i> is the time that the fluidized bed operates.</p> <p>If a new stack test is not conducted prior to December 2020, PM emissions from this point must be calculated using:</p> $(MT, \text{lb/hr})(1 - 60\% TE)(1 - 70\% FOF)$ <p>VOC:</p> $\left(MT, \frac{\text{lb}}{\text{hr}} \right) (\text{Material VOC \% at cure temperature})$ <p>HAP:</p> $\left(MT, \frac{\text{lb}}{\text{hr}} \right) (\text{Material HAP \% at cure temperature})$
Post-heat Oven	AP3-310b	<p>See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion</p>

Table 14 Unit U311: Adhesive for End Caps on Dishwasher Racks (AP3)

Equipment	Emission Point	Emission Calculation
Rack End Cap Adhesive	AP3-311	<p>VOC:</p> $(MT, \text{gal/hr})(\text{Density, lb/gal})(\text{Material VOC \%})$ <p>HAP:</p> $(MT, \text{gal/hr})(\text{Density, lb/gal})(\text{Material HAP \%})$

Table 15 Unit U500: Touch-Up Paint, Adhesives and Lubricating the Spine Fin Evaporator Bottom Mount Freezer Refrigerator Line (AP5)

Equipment	Emission Point	Emission Calculation
Touch-Up Paint, Adhesives, and Lubricant	EP-500a, EP-500b, & EP-500c	VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$ HAP: $(MT, gal/hr)(Density, lb/gal)(Material HAP \%)$

Table 16 Unit U510: Bottom Mount Freezer Refrigerator Line (AP5)

Equipment	Emission Point	Emission Calculation																														
Insulating Foam Line	EP-510	<p>VOC: $\sum_{i=1}^n \frac{MT_i VOC_i EF_i}{2000} \text{ tons/year}$</p> <table border="1"> <thead> <tr> <th><i>i</i></th> <th>Foam Component</th> <th></th> <th>VOC fraction</th> <th>EF (lb_{VOC}/lb_{material})</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Cyclopentane</td> <td>Part B</td> <td>0.1212</td> <td>0.014</td> </tr> <tr> <td>2</td> <td>Amine catalyst</td> <td>Part B</td> <td>0.023</td> <td>0.010</td> </tr> <tr> <td>3</td> <td>silicone</td> <td>Part B</td> <td>0.0124</td> <td>0.078</td> </tr> <tr> <td>5</td> <td>MDI (HAP)</td> <td>Part A</td> <td>1</td> <td>1.80×10^{-7}</td> </tr> <tr> <td>6</td> <td>pMDI (HAP)</td> <td>Part A</td> <td>1</td> <td>2.2×10^{-7}</td> </tr> </tbody> </table> <p>The VOC fraction for each of the components in Part B is approximate and represents the best estimate of the typical value for each component.</p> <p>HAP/TAC: Calculated in the same way as VOC, using only the HAPs in the emission factor table</p>	<i>i</i>	Foam Component		VOC fraction	EF (lb _{VOC} /lb _{material})	1	Cyclopentane	Part B	0.1212	0.014	2	Amine catalyst	Part B	0.023	0.010	3	silicone	Part B	0.0124	0.078	5	MDI (HAP)	Part A	1	1.80×10^{-7}	6	pMDI (HAP)	Part A	1	2.2×10^{-7}
<i>i</i>	Foam Component		VOC fraction	EF (lb _{VOC} /lb _{material})																												
1	Cyclopentane	Part B	0.1212	0.014																												
2	Amine catalyst	Part B	0.023	0.010																												
3	silicone	Part B	0.0124	0.078																												
5	MDI (HAP)	Part A	1	1.80×10^{-7}																												
6	pMDI (HAP)	Part A	1	2.2×10^{-7}																												
Main Extruder Line	EP-511	<p>VOC: $(MT, lb/hr)(Emission Factor 0.000231 (lb Voc) / (lb ABS Extruded))$ HAP/TAC: $(MT, \frac{lb}{hr})(Emission Factor 0.0001871 (lb HAP) / (lb ABS Extruded))$</p>																														
Small Extruder Line	EP-512	<p>VOC: $(MT, lb/hr)(Emission Factor 0.000231 (lb Voc) / (lb ABS Extruded))$ HAP/TAC: $(MT, \frac{lb}{hr})(Emission Factor 0.0001871 (lb HAP) / (lb ABS Extruded))$</p>																														

Table 17 Unit U530: AP2 Metallic Powder Paint (TV-14-1012-C)

Equipment	Emission Point	Emission Calculation
Dry Off Oven (Infrared)	EP-2A	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Basecoat Powder Paint Booth	EP-3	PM: $\left(MT, \frac{lb}{hr} \right) (1 - 60\% TE)(1 - 90\% RE)(1 - 70\% FOF)(1 - 70\% FOF)(1 - 90\% FE)$ HAP/TAC: $\left(MT, \frac{lb}{hr} \right) (1 - 60\% TE)(Material\ HAP\ \%)(1 - 90\% RE)(1 - 70\% FOF)(1 - 70\% FOF)(1 - 90\% FE)$
Gel Oven (Infrared)	EP-4A	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Basecoat Gel Oven (Infrared)	EP-4B	
Clear Coat Powder Paint Booth	EP-5	PM: $\left(MT, \frac{lb}{hr} \right) (1 - 50\% TE)(1 - 90\% RE)(1 - 70\% FOF)(1 - 70\% FOF)(1 - 90\% FE)$
Gel Oven (Infrared)	EP-6A	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Clear Coat Gel Oven (Infrared)	EP-6B	
Cure Oven	EP-7A	VOC: $\left(MT, \frac{lb}{hr} \right) (Material\ VOC\ \% \text{ at cure temperature})$
Cure Oven	EP-7B	

Table 18: Solvent Metal Cleaning

Equipment	Emission Point	Emission Calculation
Parts cleaners are equipped with secondary reservoirs	Solvent Metal Cleaning Equipment (Secondary Reservoirs)	VOC: $\left(MT, \frac{lb}{hr} \right) (Material\ VOC\ \%)$
Parts cleaners are equipped with no secondary reservoirs	Solvent Metal Cleaning Equipment (No Secondary Reservoirs)	

Table 19: Miscellaneous

Equipment	Emission Point	Emission Calculation
AP1 Regrinder	32675-11	PM: $(MT, lb/hr)(0.0491\% PM)$
Hosokawa Grinder	37206-13	PM: $\left(MT, \frac{lb}{hr}\right)(0.0491\% PM)(1 - 95\% FE)$
AP5 Misc. Chemical	176-93	VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$
AP3 Misc. Chemical	178-93	
AP1 Misc. Chemical	483-92	
Sealant in AP10	479-94	
Maintenance Paint Booth	35-04	VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$ PM: $\left(MT, \frac{lb}{hr}\right)(1 - 65\% TE)$
Paint Touch-up in AP1	583-92	VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$
Rack repair station	471-94	
Lubricant in AP1	585-91	
Touch-up Paint in AP1	U149	
Touch-up Paint in AP3	U150	
(137) Plastic compression or injection molding processes	Injection Molding	VOC for polypropylene: $\left(MT, \frac{lb}{month}\right)(Emission Factor(1.04 \times 10^{-4} lb/lb)2)$ VOC for all other plastics: $\left(MT, \frac{lb}{month}\right)(Emission Factor(3.07 \times 10^{-5} lb/lb)3)$ PM: $\left(MT, \frac{lb}{month}\right)(Emission Factor(3.03 \times 10^{-5} lb/lb)4)$

2 Air & Waste Management Association (A&WMA) 1999 paper on *Development of Emission Factors for Polypropylene Processing*

3 Air & Waste Management Association (A&WMA) 1996 paper on *Development of Emission Factors for Polyethylene Processing*

Table 20 Unit IA01: Insignificant Activity Indirect-fired Combustion Sources <1 MMBtu/hr

Equipment	Emission Point	Emission Calculation	
AP3 Nylon Heater	IA01-1	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion	
(>50) Indirect-fired Hot Water heaters located throughout the plant all less than 1.0 MMBtu/hr	IA01-6		
Three (3) 0.1 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-7		
Seven (7) 0.2 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-8		
Fifteen (15) 0.25 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-9		
Nine (9) 0.3 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-10		
Eleven (11) 0.4 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-11		
Three (3) 0.03 MMBtu/hr: Qmark MUH-10-41 (10 kW) (Indirect Fired Space/comfort heaters)	IA01-12		
Three (3) 0.1 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-7		See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Seven (7) 0.2 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-8		
Fifteen (15) 0.25 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-9		

4 Air & Waste Management Association (A&WMA) 1999 paper on *Development of Emission Factors for Polypropylene Processing*

Equipment	Emission Point	Emission Calculation
Nine (9) 0.3 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-10	
Eleven (11) 0.4 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters)	IA01-11	
Three (3) 0.03 MMBtu/hr: Qmark MUH-10-41 (10 kW) (Indirect Fired Space/comfort heaters)	IA01-12	
Five (5) 0.125 MMBtu/hr heater (Indirect Fired Space/comfort heaters)	IA01-13	
Thirteen (13) 0.3 MMBtu/hr heater (Indirect Fired Space/comfort heaters)	IA01-14	

Table 21 Unit IA02: Insignificant Activity Regulation 7.25 Process Equipment

Equipment	Emission Point	Emission Calculation
Cleaner and Lubricant Use for Bottom Mount Assembly Operation	IA02-1	<p>VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$</p>
Stainless Steel Tub Assembly	IA02-5	
Dishwasher Door Mastic Application	IA02-6	<p>VOC: $(MT, gal/hr)((Density or Weight, lb/gal or lb/unit)(Material VOC \%)$</p>
Tub Top & Bottom Mastic Application	IA02-7	
Tub Wrap Mastic Application	IA02-8	
AP1 RTV Silicon Station	IA02-9	<p>VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$</p>
Two (2) Pad Printing	IA02-10	

Equipment	Emission Point	Emission Calculation								
Small Freezer Door Foaming Operation	IA02-12	<p style="text-align: center;">VOC:</p> $\sum_{i=1}^n \frac{MT_i VOC_i EF_i}{2000} \text{ tons/year}$ <table border="1" style="margin: auto;"> <thead> <tr> <th data-bbox="630 445 695 508"><i>i</i></th> <th data-bbox="695 445 993 508">Foam Component</th> <th data-bbox="993 445 1117 508">VOC fraction</th> <th data-bbox="1117 445 1312 508">EF (lb_{voc}/lb_{material})</th> </tr> </thead> <tbody> <tr> <td data-bbox="630 508 695 562">1</td> <td data-bbox="695 508 993 562">MDI/pMDI (HAP) Part A</td> <td data-bbox="993 508 1117 562">1</td> <td data-bbox="1117 508 1312 562">3.64 × 10⁻⁶</td> </tr> </tbody> </table> <p style="text-align: center;">HAP/TAC: Calculated in the same way as VOC, using only the HAPs in the emission factor table</p>	<i>i</i>	Foam Component	VOC fraction	EF (lb _{voc} /lb _{material})	1	MDI/pMDI (HAP) Part A	1	3.64 × 10 ⁻⁶
<i>i</i>	Foam Component	VOC fraction	EF (lb _{voc} /lb _{material})							
1	MDI/pMDI (HAP) Part A	1	3.64 × 10 ⁻⁶							
Aerosol spray adhesive usage in warehouse for replacing loose labels on boxes prior to shipping	IA02-13	<p style="text-align: center;">VOC: (MT, gal/hr)(Density, lb/gal)(Material VOC %)</p>								
AP2 Zoneline Mastic Curing Operation	IA02-14	<p style="text-align: center;">VOC: (MT, gal/hr)((Density or Weight, lb/gal or lb/unit)(Material VOC %)</p>								
AP2 Metallic PP Pretreatment Washing Tunnel	IA02-15	<p style="text-align: center;">VOC: (MT, gal/hr)((Density, lb/gal)(Material VOC %)</p>								
MEK Quality Test Metallic Powder Painted Parts	IA02-16									
Three (3) Ultrasonic Cleaners for Powder Paint Tools	IA02-17									
Ten (10) Touch-kup Paints and Adhesives not subject to 40 CFR 63 Subpart NNNN	IA02-18	<p style="text-align: center;">VOC: (MT, gal/hr)(Density, lb/gal)(Material VOC %)</p>								
HA Drum Fabrication Lubricant	IA02-19									

Equipment	Emission Point	Emission Calculation												
Swedging/Cutting Lubricant Application	IA02-20													
Evaporator De-Fin Lubricant Application	IA02-21													
Waste Water Treatment Plant	IA02-22	Emissions accounted for in the working losses for storage tanks using AP-42 evaporative losses and Raoult's Law for estimation of vapor pressure												
Solvent-based Ultrasonic Cleaner for AP5	IA02-23	VOC: $(MT, gal/hr)(Density, lb/gal)(Material VOC \%)$												
Soil or groundwater remediation	IA02-24	VOC using the ideal gas law: $\left[\frac{(Discharge Concentration (ppm)) \left(Molecular Weight \left(\frac{g}{mol} \right) \right)}{Molar volume (24.465)} \right] (flow rate (Cfm))$ $(\# of Operating days / yr)(conversion factor (8.99E - 05))$												
Tri-Flow lubricant for die maintenance	IA02-25	VOC: $(MT, gal/yr)(2.40 lb/gal)(1 ton/ 2000 lb)$												
Bumper repair Loctite Prism 401 or similar materials Lines 7, 8, 9	IA02-26	VOC: $(MT, gal/yr)(2\% VOC)(1 ton/ 2000 lb)$ General Electric Appliances submitted a PTE justifying designation of this operation as an insignificant activity based on emissions from Loctite Prism 401 adhesive. Other similar adhesives may be substituted for the convenience of GEA if total emissions from this source are not significantly impacted.												
AP5 Door-in-door foaming	IA02-27	VOC: $\sum_{i=1}^5 \frac{MT_i VOC_i EF_i}{2000} tons/year$ <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th><i>i</i></th> <th>Foam Component</th> <th>VOC fraction</th> <th>EF (lb_{voc}/lb_{material})</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>MDI/pMDI (HAP)</td> <td>Part A</td> <td>1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>3.06 × 10⁻⁵</td> </tr> </tbody> </table> <p>HAP/TAC: Calculated in the same way as VOC, using only the HAPs in the emission factor table</p>	<i>i</i>	Foam Component	VOC fraction	EF (lb _{voc} /lb _{material})	1	MDI/pMDI (HAP)	Part A	1				3.06 × 10 ⁻⁵
<i>i</i>	Foam Component	VOC fraction	EF (lb _{voc} /lb _{material})											
1	MDI/pMDI (HAP)	Part A	1											
			3.06 × 10 ⁻⁵											
AP1 Laundry Stamping Aida and CMI presses	IA02-28	VOC: $(MT gal/yr)((diluted mix lb/gal)(diluted stock wt\%)(stock VOC\%)(1 ton/2000gal)$												

Equipment	Emission Point	Emission Calculation																																																							
AP4 Injection molding aerosol cans	IA02-29	<p>VOC or HAP:</p> $\sum_{i=1}^n (\#cans)_i (VOC \text{ or } HAP\%)_i$ <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th rowspan="2"></th> <th colspan="7">Weight %</th> </tr> <tr> <th>VOC</th> <th>Trichloro Ethylene</th> <th>Hexane</th> <th>Tetrachloro Ethylene</th> <th>Toluene</th> <th>Xylene</th> <th>Ethyl benzene</th> </tr> </thead> <tbody> <tr> <td>Sprayon 314</td> <td>54</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>L-163</td> <td>100</td> <td>50</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>MC-16</td> <td>100</td> <td></td> <td></td> <td>85</td> <td>10</td> <td></td> <td></td> </tr> <tr> <td>MSP-16</td> <td>100</td> <td>28</td> <td></td> <td></td> <td></td> <td>42</td> <td>10</td> </tr> <tr> <td>44011</td> <td>100</td> <td></td> <td>65</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>This table represents the cleaners in use at the time of application. Other cleaners may be substituted as necessary, with emission calculations performed in a similar manner.</p>		Weight %							VOC	Trichloro Ethylene	Hexane	Tetrachloro Ethylene	Toluene	Xylene	Ethyl benzene	Sprayon 314	54							L-163	100	50						MC-16	100			85	10			MSP-16	100	28				42	10	44011	100		65				
	Weight %																																																								
	VOC	Trichloro Ethylene	Hexane	Tetrachloro Ethylene	Toluene	Xylene	Ethyl benzene																																																		
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44011	100		65																																																						
AP10 Contractor Package Regluing	IA02-30	<p>VOC:</p> $(MT, lb/yr)(VOC\%)(1 \text{ ton}/2000 \text{ lb})$ <p>The adhesive used at the time of application had a VOC content of 0.055%. Other adhesives may be substituted as necessary.</p>																																																							
AP1 Capacitor lubricant, lines 7 and 8	IA02-31	<p>VOC:</p> $(MT, gal/yr)(6.59 \text{ lb}_{VOC}/gal)(1 \text{ ton}/2000 \text{ lb})$																																																							

Table 22 Unit IA03: Insignificant Activity Regulation 7.08 Process Equipment

Equipment	Emission Point	Emission Calculation
Sixty (60) Brazing, soldering, welding equipment	IA03-1	<p>PM:</p> $\left(MT, \frac{lb}{hr} \right) (\% \text{ PM or Emission Factor})(1 - 70\% \text{ FOF})$
Pedestal Plastic Regrinder	IA03-2	
Brazing, soldering, or welding on Nylon Wire Rack Line	IA03-5	
Nylon powder transfer/clean-up activities	IA03-6	
Pellet Grinder and process cyclone make Granutec	IA03-7	<p>PM:</p> $\left(MT, \frac{lb}{hr} \right) (\% \text{ PM or Emission Factor})(1 - 70\% \text{ FOF})(1 - 90\% \text{ FE})$

Equipment	Emission Point	Emission Calculation
Grinding Operation for AP3 White Tub Regrinder	IA03-8	PM: $\left(MT, \frac{lb}{hr}\right) (\% PM \text{ or Emission Factor})(1 - 70\% FOF)(1 - 90\% FE)$
Ten (10) Small Regrinders in AP4 used to recycle plastic	IA03-9	
Small Regrinders in AP5 used to recycle plastic	IA03-10	PM: $\left(MT, \frac{lb}{hr}\right) (\% PM \text{ or Emission Factor})(1 - 70\% FOF)$
Unloading, Conveyance and Storage of Plastic Pellets in AP1	IA03-11	
Unloading, Conveyance and Storage of Plastic Pellets in AP3	IA03-12	
Unloading, Conveyance and Storage of Plastic Pellets in AP4	IA03-13	
Unloading, Conveyance and Storage of Plastic Pellets in AP5	IA03-14	
Thirteen (13) Cooling Towers	IA03-15	AP-42 Emission Factors Chapter 13.4, Table 13.4-1
Two (2) Sanding Processes to scuff-sand defective painted parts on downdraft table with cartridges	IA03-17	PM: $\left(MT, \frac{lb}{hr}\right) (\% PM \text{ or Emission Factor})(1 - 70\% FOF)(1 - 90\% FE)$
Two (2) Hot Plate Welding of Plastic Parts	IA03-18	PM: $MT \times EF, EF=0.0588 \text{ lb/lb}$ VOC: $MT \times EF, EF=0.0176 \text{ lb/lb}$
One (1) Central Vacuum System for AP1	IA03-19	PM: $\left(MT, \frac{lb}{hr}\right) (\% PM / \% PM10)(1 - 90\% FE \text{ (cyclone)})(1 - 95\% FE \text{ (final Filter)})$

Table 23 Unit IA04 (U89): VOC Storage Tank

Equipment	Emission Point	Emission Calculation
Generator Tank, 2500 gallons	IA Tank 1	Emissions accounted for in the working losses for storage tanks using AP-42 evaporative losses
Generator Tank, 10,000 gallons	IA Tank 2	
Generator Tank, 10,000 gallons	IA Tank 3	
Generator Tank, 2859 gallons	IA Tank 4	

Table 24 Unit IA05: Combustion Source not accounted for in any other emission unit

Equipment	Emission Point	Emission Calculation
One (1) 2.0 MMBtu/hr AP1 Make Up Air Heater, Maxon 2.0 APX Line Burner (Direct fired unit)	IA05-1	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Three (3) 0.757 MMBtu/hr: Cambridge S800 direct fired heat exchangers (Space/comfort heaters)	IA05-2	
Two (2) 0.400 MMBtu/hr: Cambridge S400 direct fired heat exchangers (Space/comfort heaters)	IA05-3	
Six (6) 1.2 MMBtu/hr: Cambridge S1200 direct fired heat exchanger (Space/comfort heaters)	IA05-4	
Twelve (12) 1.499 MMBtu/hr: Cambridge S1600 direct fired heat exchanger (Space/comfort heaters)	IA05-5	See AP-42 Chapter 1.4: External Combustion Sources – Natural Gas Combustion
Three (3) 2.2 MMBtu/hr: Cambridge S2200 direct fired heat exchanger (Space/comfort heaters)	IA05-6	
Forty-five (45) 3.107 MMBtu/hr: Cambridge S3200 direct fired heat exchanger (Space/comfort heaters)	IA05-7	
Five (5) 5.887 MMBtu/hr: Cambridge M136 direct fired heat exchanger (Space/comfort heaters)	IA05-8	
One (1) 7 MMBtu/hr natural gas dryoff oven (Direct fired Unit)	IA05-9	
One (1) HA Gas Dryer Test Loop	IA05-10	

Table 25 Insignificant Activity Table Equipment not covered in any other emission unit

Equipment	Quantity	Emission Calculation
R & D facilities	<25	VOC: <i>(MT, gal/hr)(Density, lb/gal)(Material VOC %)</i>
Lab venting and exhausting	>25	VOC: <i>(MT, gal/hr)(Density, lb/gal)(Material VOC %)</i>
VOC Storage Tanks 250 gallons or less	10	Emissions accounted for in the working losses for storage tanks using AP-42 evaporative losses
Lubricating oil storage tanks	2	

7. Insignificant Activities

Equipment ⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
Fuel or lubricating oils storage tanks: VP<10 mmHg (Regulation 7.12, Emission Unit IA04 (U89))	<32	<0.1 VOC each	Regulation 1.02, Appendix A
Brazing, soldering, or welding equipment (Regulation 7.08, Emission Unit IA03)	>60	1.0 PM all combined	Regulation 1.02, Appendix A
Plastics compression or injection molding (Regulation 7.25 BACT process, Emission Unit Miscellaneous)	>137	8.59 VOC all combined ⁶	Regulation 1.02, Section 1.38
Indirect-fired Hot Water heaters located throughout the plant all less than 1.0 MMBtu/hr (Emission Unit IA01) ⁷	>50	1.0 NO _x each	Regulation 1.02, Appendix A
Maintenance Paint Booth (Previously Permit 35-04) (See Emission Unit: Miscellaneous for standards, monitoring, recordkeeping, and reporting requirements.)	1	4.9 VOC	Regulation 1.02, Section 1.38
R & D facilities	<25	4.9 PM/VOC each	Regulation 1.02, Appendix A
VOC Pressurized Storage tanks: MDI Bulk Storage Tank 27,000 Gallons (1) Polyol Bulk Storage Tank 27,000 Gallons (1) Cyclopentane Bulk Storage Tank 12,000 Gallons (1) Case Mixer Tank 5,600 Gallons (1) Door Mixer Tank 5,600 Gallons (1) Case Poly Blend Hold Tanks 5,300 Gallons (2) Door Poly Blend Hold Tank 5,300 Gallons (1) Polycat Bulk Storage Tank 3,700 Gallons (1) Additive Tanks 250 Gallons (2)	11	0.0 VOC while under pressure	Regulation 1.02, Appendix A
VOC storage tanks 250 gallons or less: Day Tanks < 250 gallons (8) Day Tank Storage of MDI 100 gallons (1) Day Tank Storage of Polyol and Blowing Agent 100 gallons (1)	10	<4.9 VOC each	Regulation 1.02, Appendix A
Lubricating Oils or fuels oils storage tanks with a vapor pressure of less than 10 mmHg: Compressor Oil Process Tank 70 gallons (1)	2	<4.9 VOC each	Regulation 1.02, Appendix A

⁵ Equipment subject to the plantwide 5 ton per year VOC emission limit in Regulation 7.25 are U210 AP2-210, U311 AP3-311, U500 EP-500(a & b), U149 touch-up painting, U150 touch-up painting, and Insignificant Activities that are noted in the Insignificant Activity Table as *Regulation 7.25 non-BACT process*.

⁶ The injection molding equipment in each building VOC emissions are less than 5 tpy combined.

⁷ These are not process heaters and are not subject to 40 CFR 63 Subpart DDDDD, they are less than 1 MMBtu/hr and not subject to Regulation 7.06. They are de minimis for STAR as they are natural gas combustion according to Regulation 5.21, section 2.7.

Equipment⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
Compressor Oil Clean Reservoir Tank 150 Gallons (1)			
Lab venting and exhausting	>25	<4.9 VOC each	Regulation 1.02, Appendix A
Soil or groundwater remediation (Regulation 7.25 non-BACT process, Emission Unit IA02)	1	<4.9 VOC	Regulation 1.02, Appendix A
Waste water Treatment plant consisting of two (2) clarifiers, two filter presses, chemicals, and a skimmer (Regulation 7.25 non-BACT process, Emission Unit IA02)	1	0.1 VOC	Regulation 1.02, Section 1.38
Pedestal Plastic Re grinder (Regulation 7.08, Emission Unit IA03)	1	1.55 PM	Regulation 1.02, Section 1.38
Cleaner and Lubricant Use for new Bottom Mount Assembly Operation (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.8 VOC	Regulation 1.02, Section 1.38
Brazing, Soldering or Welding on Nylon Wire Rack Line (Regulation 7.08, Emission Unit IA03)	1	1.0 PM	Regulation 1.02, Appendix A
Nylon powder transfer/clean-up activities (Regulation 7.08, Emission Unit IA03)	1	4.6 PM	Regulation 1.02, Section 1.38
Stainless Dishwasher Steel Tub Assembly (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.22 VOC	Regulation 1.02, Section 1.38
Dishwasher Door Mastic Application (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.45 VOC	Regulation 1.02, Section 1.38
Tub Top and Bottom Mastic Application (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.71 VOC	Regulation 1.02, Section 1.38
Tub Wrap Mastic Application (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	1.41 VOC	Regulation 1.02, Section 1.38
AP1 RTV Silicone Station (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.22 VOC	Regulation 1.02, Section 1.38
Pad Printing (Regulation 7.25 non –BACT process, Emission Unit IA02)	2	<1.0 VOC each	Regulation 1.02, Section 1.38
Small Freezer Door Foaming Operation (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	<1.0 VOC	Regulation 1.02, Section 1.38
Pellet Grinder and process cyclone make Granutec G3030 (Regulation 7.08, Emission Unit IA03)	1	1.75 PM	Regulation 1.02, Section 1.38
Grinding operation for the AP3 Ash White Tub Re-grinder (Regulation 7.08, Emission Unit IA03)	1	1.75 PM	Regulation 1.02, Section 1.38
Small Re grinders in AP4 used to recycle plastic (Regulation 7.08, Emission Unit IA03)	<10	<=4.9 PM each	Regulation 1.02, Section 1.38
Small Re grinders in AP5 used to recycle plastic (Regulation 7.08, Emission Unit IA03)	1	1.3 PM	Regulation 1.02, Section 1.38
Unloading, Conveyance and Storage of Plastic Pellets in AP1 (Regulation 7.08, Emission Unit	1	<1.0 PM	Regulation 1.02, Section 1.38

Equipment ⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
IA03)			
Unloading, Conveyance and Storage of Plastic Pellets in AP3 (Regulation 7.08, Emission Unit IA03)	1	<1.0 PM	Regulation 1.02, Section 1.38
Unloading, Conveyance and Storage of Plastic Pellets in AP4 (Regulation 7.08, Emission Unit IA03)	1	<1.5 PM	Regulation 1.02, Section 1.38
Unloading, Conveyance and Storage of Plastic Pellets in AP5 (Regulation 7.08, Emission Unit IA03)	1	<1.0 PM	Regulation 1.02, Section 1.38
Aerosol spray adhesive usage in the warehouse for replacing loose labels on boxes prior to shipping (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	1.0 VOC	Regulation 1.02, Section 1.38
2.0 MMBtu/hr AP1 Make Up Air Heater, Maxon 2.0 APX Line Burner (Direct fired unit, Emission Unit IA05) ⁸	1	0.83 NO _x	Regulation 1.02, Appendix A
IA01-5: 1.99 MMBtu/hr Bradford White hot water heater in the Park Athletic Club < 120 gallon tank (Indirect Fired heat exchanger, Emission Unit U81 and U82)	1	0.83 NO _x	Regulation 1.02, Appendix A
IA01-3: 7.5 MMBtu/hr Maxon Tube-O-Therm 8” HC (Indirect Fired heat exchanger, Emission Unit U81 and U82)	1	3.27 NO _x	Regulation 1.02, Appendix A
0.1 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters) (Emission Unit IA01) ⁹	3	0.04 NO _x each	Regulation 1.02, Appendix A
0.2 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters) (Emission Unit IA01) ⁹	7	0.08 NO _x each	Regulation 1.02, Appendix A
0.25 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters) (Emission Unit IA01) ⁹	15	0.10 NO _x each	Regulation 1.02, Appendix A
0.3 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters) (Emission Unit IA01) ⁹	9	0.13 NO _x each	Regulation 1.02, Appendix A
0.4 MMBtu/hr: Sterling QVEF heater (Indirect Fired Space/comfort heaters) (Emission Unit IA01) ⁹	11	0.17 NO _x each	Regulation 1.02, Appendix A
0.03 MMBtu/hr: Qmark MUH-10-41 (10 kW) (Indirect Fired Space/comfort heaters)(Emission Unit IA01) ⁹	3	0.13 NO _x each	Regulation 1.02, Appendix A

⁸ This heater is a direct fired process heater and not subject to 40 CFR 63 Subpart DDDDD. Since it a direct fired process heater it is not subject to Regulation 7.06. They are de minimis for STAR as they are natural gas combustion according to Regulation 5.21, section 2.7.

⁹ These space/comfort heaters are not process heaters and not subject to 40 CFR 63 Subpart DDDDD. These are indirect fired heat exchangers but are each below 1 MMBtu/hr and not subject to Regulation 7.06. They are deminimis for STAR as they are natural gas combustion according to Regulation 5.21, section 2.7.

Equipment ⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
0.757 MMBtu/hr: Cambridge S800 direct fired heat exchangers (Space/comfort heaters, Emission Unit IA05) ¹⁰	3	0.33 NO _x each	Regulation 1.02, Appendix A
0.400 MMBtu/hr: Cambridge S400 direct fired heat exchangers (Space/comfort heaters, Emission Unit IA05) ¹⁰	2	0.17 NO _x each	Regulation 1.02, Appendix A
0.125 MMBtu/hr heater (Indirect Fired Space/comfort heaters)(Emission Unit IA01) ⁹	5	0.05 NO _x each	Regulation 1.02, Appendix A
0.3 MMBtu/hr heater (Indirect Fired Space/comfort heaters) (Emission Unit IA01) ⁹	13	0.13 NO _x each	Regulation 1.02, Appendix A
1.2 MMBtu/hr: Cambridge S1200 direct fired heat exchanger (Space/comfort heaters, Emission Unit IA05) ¹⁰	6	0.52 NO _x each	Regulation 1.02, Appendix A
1.499 MMBtu/hr: Cambridge S1600 direct fired heat exchanger (Space/comfort heaters, Emission Unit IA05) ¹⁰	12	0.64 NO _x each	Regulation 1.02, Appendix A
2.2 MMBtu/hr: Cambridge S2200 direct fired heat exchanger (Space/comfort heaters, Emission Unit IA05) ¹⁰	3	0.94 NO _x each	Regulation 1.02, Appendix A
3.107 MMBtu/hr: Cambridge S3200 direct fired heat exchanger (Space/comfort heaters, Emission Unit IA05) ¹⁰	45	1.33 NO _x each	Regulation 1.02, Appendix A
5.887 MMBtu/hr: Cambridge M136 direct fired heat exchanger (Space/comfort heaters, Emission Unit IA05) ¹⁰	5	2.53 NO _x each	Regulation 1.02, Appendix A
7 MMBtu/hr natural gas dryoff oven (Direct fired Unit, Emission Unit IA05) ⁸	1	2.92 NO _x	Regulation 1.02, Appendix A
HA Gas Dryer Test Loop (Emission Unit IA05)	1	<1.0 NO _x	Regulation 1.02, Section 1.38
Cooling towers: (Regulation 7.08, Emission Unit IA03) AP-1 Front Tower AP-2 Rear Tower AP-2 Front Tower AP-2 Outlying Tower AP-3 North Tower AP-4 South Tower AP-4 Front Tower AP-4 Plastics Tower	13	<3.0 PM each	Regulation 1.02, Section 1.38

¹⁰ These are direct fired space/comfort heaters and not process heaters, therefore, they are not subject to 40 CFR 63 Subpart DDDDD. Since they are direct fired heat exchangers they are not subject to Regulation 7.06. They are de minimis for STAR as they are natural gas combustion according to Regulation 5.21, section 2.7.

Equipment ⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
AP-5 Plastics Tower AP-5 Front Tower AP-20 Tower AP-32 Tower AP-33 Tower			
AP2 Zoneline Mastic Curing Operation (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	<1.0 VOC	Regulation 1.02, Section 1.38
AP1 Powder Paint Pretreatment Washing Tunnel (Regulation 7.59) (Emission Unit U01 emission point EP-100C)	1	3.6 VOC	Regulation 1.02, Section 1.38
AP2 Metallic PP Pretreatment Washing Tunnel (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	3.11 VOC	Regulation 1.02, Section 1.38
MEK Quality Test Metallic Powder Painted Parts (AP2) (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.04 VOC	Regulation 1.02, Section 1.38
Ultrasonic Cleaner for Powder Paint Tools (Regulation 7.25 non –BACT process, Emission Unit IA02)	<3	0.2 VOC each	Regulation 1.02, Section 1.38
HA Drum Fabrication Lubricant (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	2.6 VOC	Regulation 1.02, Section 1.38
Swedging/Cutting Lubricant application (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	0.13 VOC	Regulation 1.02, Section 1.38
Evaporator De-Fin Lubricant application (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	1.2 VOC	Regulation 1.02, Section 1.38
Hot Plate Welding of Plastic Parts (Regulation 7.08, Emission Unit IA03)	2	<0.6 PM each unit	Regulation 1.02, Section 1.38
Touch-up Paints and Adhesives not subject to 40 CFR 63, Subpart NNNN (Regulation 7.25 non –BACT process, Emission Unit IA02)	10	4.9 VOC combined	Regulation 1.02, Section 1.38
Sanding process to scuff-sand defective painted parts on downdraft table with cartridges (Regulation 7.08, Emission Unit IA03)	2	<1.0 PM ₁₀ each	Regulation 1.02, Section 1.38
AP-4 Boiler #1 and #2, 5 MMBtu/hr, make Cleaver Brooks, model FLEX500 (IA) (Emission Unit U81 and U82)	2	2.4 NOx each	Regulation 1.02, Appendix A
AERCO 2 MMBtu/hr Natural Gas Fired Hot Water Boiler, model DMK2.0LMGWB (AP-1, AP-2 and AP-3) (IA) (Emission Unit U81 and U82)	9	0.88 NOx each	Regulation 1.02, Appendix A
Washer Immersion Heater Stage 1 KMI model TBD rated at 5.3 MMBtu/hr (IA) (Emission Unit U81 and U82)	1	2.41 NOx	Regulation 1.02, Appendix A
Washer Immersion Heater Stage 2 KMI model TBD rated at 3.0 MMBtu/hr (IA)	1	1.33 NOx	Regulation 1.02, Appendix A

Equipment ⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
(Emission Unit U81 and U82)			
Wash System for Stainless Steel Washer and Dryer Baskets that consists of a heated bath that has a natural gas fired burner for heating. The Immersion Heater is an Eclipse ImmersoPak IP-010, 3.2 MMBtu/hr (burner is IA) (Emission Unit U81 and U82)	1	1.34 NO _x	Regulation 1.02, Appendix A
EP AP3 Comms - AP3 Communications Center Natural Gas Fired Emergency Generator Engine: Cummins model GGLA 198 HP (Emission Unit U111)	1	1.535 NO _x	Regulation 1.02, Section 1.38
EP AP5 - AP5 Emergency Diesel-Fired Generator Engine: Caterpillar model D330 150 HP (Emission Unit U111)	1	1.163 NO _x	Regulation 1.02, Section 1.38
AP23a - Mitsubishi S12A2-Y2PTAW-2 Emergency Generator Engine 900 kW (1207 HP) (Emission U112)	1	4.921 NO _x	Regulation 1.02, Section 1.38
AP23b - Mitsubishi S12A2-Y2PTAW-2 Emergency Generator Engine 900 kW (1207 HP) (Emission Unit U112)	1	4.921 NO _x	Regulation 1.02, Section 1.38
EP IWT - Backup Emergency Diesel-Fired Generator Engine (IWT Generator): John Deere model 4024HF285B 80 HP (Emission Unit U112)	1	0.620 NO _x	Regulation 1.02, Section 1.38
Solvent Metal Cleaning Equipment - Unk cold solvent parts cleaners are equipped with secondary reservoirs (Regulation 6.18) (Emission Unit Solvent Metal Cleaning Equipment)	30	0.1 VOC each	Regulation 1.02, Appendix A
IA01-1 AP3 Nylon Heater rated at 0.9 MMBtu/hr (Emission Unit IA01)	1	0.56 NO _x	Regulation 1.02, Appendix A
IA01-2 Eclipse ImmersoPak IP008 heat rated at 2.05 MMBtu/hr (Emission Unit U81 & U82)	2	0.894 NO _x each	Regulation 1.02, Appendix A
Custom Pretreat Washer for AP1 Powder Paint System (Emission Unit U01) Subject to Regulation 7.59	1	3.6 VOC	Regulation 1.02, Section 1.38
Four (4) Lubricant for Door Panel Presses for AP2 (Emission Unit U104- U107)	4	<3.0 VOC each	Regulation 1.02, Section 1.38
Central Vacuum System for AP1 (Emission Unit IA03)	1	0.3 PM	Regulation 1.02, Section 1.38
Solvent-based Ultrasonic Cleaner AP5 (Regulation 7.25 non –BACT process, Emission Unit IA02)	1	1.6 VOC	Regulation 1.02, Section 1.38

Equipment ⁵	Quantity	Pollutant Potential To Emit (tons per 12 consecutive month period)	Basis for Determination
Stainless Steel Dish Door Wipe, (Regulation 7.25 non-BACT process, Emission Unit U530)	1	1.72 VOC	Regulation 1.02, section 1.38.1.2
Tri-Flow (product series TF210010) lubricant for Die Maintenance (Regulation 7.25 non –BACT process, EU-IA02)	1	0.49 VOC	Regulation 1.02, section 1.38.1.2
Bumper repair using Loctite Prism 401 adhesive or similar material, Lines 7, 8, and 9 11 (Regulation 7.25 non –BACT process, EU-IA02)	3	0.07 VOC total	Regulation 1.02, section 1.38.1.2
AP5 Fresh Food Door-in-Door Foaming (Regulation 7.25 non –BACT process, EU-IA02)	1	0.01 VOC	Regulation 1.02, section 1.38.1.2
AP1 Laundry Stamping: Aida and CMI Presses, Draw-Clean 660 usage (Regulation 7.25 non –BACT process, EU-IA02)	2	2.07 VOC total	Regulation 1.02, section 1.38.1.2
AP4 Injection molding – Mold release, cleaner, and preventatives usage (aerosol spray cans) (Regulation 7.25 non –BACT process, EU-IA02)	1	0.50 VOC 0.34 HAP	Regulation 1.02, section 1.38.1.2
AP10 Contractor Package regluing (Regulation 7.25 non –BACT process, EU-IA02)	1	0.03 VOC	Regulation 1.02, section 1.38.1.2
AP1, lines 7 and 8 Capacitor lubricant for ergonomics (Regulation 7.25 non –BACT process, EU-IA02)	3	0.05 VOC Total	Regulation 1.02, section 1.38.1.2
Central Vacuum System for AP2 (Emission Unit IA03)	1	0.30 PM ₁₀	Regulation 1.02, section 1.38.1.2

- 1) Insignificant Activities identified in District Regulation 1.02 Appendix A may be subject to size or production rate disclosure requirements.
- 2) Insignificant Activities identified in District Regulation 1.02 Appendix A shall comply with generally applicable requirements.
- 3) Activities identified in Regulation 1.02, Appendix A, may not require a permit and may be insignificant with regard to application disclosure requirements but may still have generally applicable requirements that continue to apply to the source and must be

¹¹ General Electric Appliances submitted a PTE justifying designation of this operation as an insignificant activity based on emissions from Loctite Prism 401 adhesive. Other similar adhesives may be substituted for the convenience of GEA if total emissions from this source are not increased.

included in the permit.

- 4) Emissions from Insignificant Activities shall be reported in conjunction with the reporting of annual emissions of the facility as required by the District.
- 5) In lieu of recording annual throughputs and calculating actual annual emissions, the owner or operator may elect to report the pollutant Potential To Emit (PTE) quantity listed in the Insignificant Activities table, as the annual emission for each piece of equipment.
- 6) The Insignificant Activities Table is correct as of the date the permit was proposed for review by U.S. EPA, Region 4.
- 7) The owner or operator shall submit an updated list of Insignificant Activities whenever changes in equipment located at the facility occur that cause changes to the plant wide emissions.
- 8) The District does not have adequate information to determine emissions from the following equipment: There are currently no compliance monitoring and recordkeeping requirements, and no reporting requirements, for any of these below equipment items, which are considered “non-regulated equipment” for air permitting purposes:

Equipment	Quantity
Emergency Relief Vents – non- regulated process	>10
Non-Stationary (Mobile) IC Engine – non-regulated process	1
Vent systems for cafeterias	>10
Use of peanut, sunflower, canola, or cottonseed oils	4