Part 70 Operating Permit Amendment

Permit Amendment No.: **2821-245-0126-V-05-2** **Effective Date:**

Facility Name: **Solvay Specialty Polymers USA, LLC**

Facility Address: 3702 Clanton Road
Augusta, Georgia 30906 Richmond County

Mailing Address: 3702 Clanton Road
Augusta, Georgia 30906

Parent/Holding Company: Solvay Specialty Polymers USA, LLC

Facility AIRS Number: 04-13-245-00126

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued a construction permit for:

> The operation of a polymer production facility, including the expansion of the Sulfone Process, and the construction and operation of the Jupiter and PUSH processes.

This Permit Amendment shall also serve as a final amendment to the Part 70 Permit unless objected to by the U.S. EPA or withdrawn by the Division. The Division will issue a letter when this Operating Permit amendment is finalized.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 2800-245-0126-V-05-0. Unless modified or revoked, this Permit Amendment expires upon issuance of the next Part 70 Permit for this source.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application Nos. 22997, 22998, and 40009 dated December 5, 2014; any other applications upon which this Permit Amendment or Permit No. 2800-245-0126-V-05-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached **13** pages.

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Director
Environmental Protection Division

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PART 1.0 FACILITY DESCRIPTION

1.3 Process Description of Modification

Application 22997 – Sulfone Expansion

This application was submitted for the purpose of modifying the Sulfone Monomer Plant, to allow an increase in production. The project includes various new and modified equipment.

Application 22998 – Project PUSH

This application was submitted for the purpose of manufacturing a new product that is classified as an ultra-performance polymer.

Application 40009 – Project Jupiter

This application was submitted for the purpose of installing a new unit for manufacturing a new product that is classified as an ultra-performance polymer. The Jupiter process involves a batch reaction, solidification, grinding, extraction, washing, slurry filtration, drying, and solvent recovery.

PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

3.1.1 Additional Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices	
ID No.	**Description**	**Applicable Requirements/Standards**	**Corresponding Permit Conditions**	**ID No.**	**Description**
SULFONE PROCESS					
~~C12A~~	~~Cogeneration Facility BX~~	~~49 CFR 63 Subpart Dc~~ ~~391-3-1-.02(2)(d)~~ ~~391-3-1-.02(2)(g)~~ ~~40 CFR 63 Subpart DDDDD~~	~~3.2.5, 3.2.25 through 3.2.27, 3.3.4 through 3.3.6, 3.4.4, 4.2.1, 6.1.7, 6.2.4, 6.2.6, 6.2.8, 6.2.10, 6.2.11, 6.2.12~~	~~None~~	~~None~~
T470 **E471** **E472** **E473** **E475** **D475** **D476** **D477**	**LT-470 Sulfone Dehydration Tower** **LE-471 Sulfone Dehydration Tower Feed Preheater** **LE-472 Sulfone Dehydration Tower Interchanger** **LE-473 Sulfone Dehydration Tower Reboiler** **LE-475 Sulfone Dehydration Tower Condenser** **LD-475 Sulfone Dehydration Tower Condenser Accumulator Drum** **LD-476 Sulfone Dehydration Tower Overheads Decanter** **LD-477 Sulfone Dehydration Tower Vent Condenser Accumulator Drum**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.2, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24**	**C6F**	**Condenser LE-477**
0C7G **T485** **H487** **T495** **H497**	Extraction Tower LT-445 **Acid Extraction Column II LT-485** **Acid Extraction Column II Bottoms Cleaner LH-487** **Sulfone Neutralization and Wash Column II LT-495** **Sulfone Neutralization and Wash Column II Bottoms Coalescer LH-497**	40 CFR 63 Subpart FFFF	3.3.7, 3.3.8, 3.3.9, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24	0C7B	Condenser LE-448
0C3C **R380**	Tower LT-302 **Reactor LR-380**	40 CFR 63 Subpart FFFF	3.3.7, 3.3.8, 3.3.9, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24	0C5A	Condenser LE-309
0C7C D664 D668 D564 D568 D612 D521 D523 M522 M642 **LT-790**	Tower LT-711 LD664 Scav Cryst Vac. Liq. Separator LD668 Scav Cryst Hot Well LD564 Primary Cryst Separator LD568 Primary Cryst Hot Well LD612 Concentrator Condensate Drum LD521 Primary Settler LD523Centrate Condenser LM522 Primary Centrifuge LM642 Scavenger Centrifuge **MCB Cleanup Tower**	40 CFR 63 Subpart FFFF	3.3.7, 3.3.8, 3.3.9, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24	0C7A **C7D**	Condenser LE-680 **Condenser LE-788**
0S7D	**Recycle MCB Purification – LE-788 (LD-785, LD-797, LD-792)**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24**	**C7D**	**Condenser LE-788**
LR-350	**MIS Cracking**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9,**	**CD363**	**Carbon Drum**

LE-351 **LT-363** **LD-367**	**MIS Cracking Phase I & II** **MIS Cracking Phase III**		**5.2.2, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24**	**OC7A** **C7D**	**Vent Condenser LE-680** **Condenser LE-788**
LD-785	**MCB Cleanup Feed Drum (Phase III)**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.2, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24**	**OC7A**	**Condenser**
TT-365	**Tanker truck loading**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.2, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24**	**CD365**	**Carbon Drum**
LT-790 **LD-797**	**MCB Cleanup Tower (Phase III)** **MCB Cleanup Bottoms Drum (Phase III)**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.2, 6.1.7, 6.2.16, 6.2.22, 6.2.23, 6.2.24**	**C7D**	**Condenser LE-788**
LD-466 LD-435 LD-800 ~~LD-425~~ LD-721 LF-1618	Sulfone Dehydration Decanter LD-466 Sulfone Make-up Water Tank LD-435 Sulfone Melt Drum LD-800 (OC8G) Sulfone ~~Recycle Water Tank~~ **Spent Sulfuric Acid** LD-425 Sulfone Tar Tank LD-721 Sulfone Treated Water Storage Tank LF-1618 (out of service)	40 CFR 63 Subpart FFFF	3.3.7, 3.3.8, 3.3.9, 6.2.22, 6.2.23, 6.2.24	None	None
S13G	**Pastillation Unit I**	**391-3-1-.01(2)(n)**	**3.5.1**	**S13G**	**Baghouse**
S13H	**Pastillation Unit II**	**391-3-1-.01(2)(n)**	**3.5.1**	**S13H**	**Baghouse**
S13I	**Pastillation Unit III**	**391-3-1-.01(2)(n)**	**3.5.1**	**S13I**	**Baghouse**
JUPITER PROCESS					
PF-800	**Emission Unit Group HE-1** **HCL Storage Tank**	**None**	**5.2.1, 6.2.7**	**SC-2**	**Scrubber**
PR-200	**Emission Unit Group HE-2** **Process Reactor**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.23**	**SC-1**	**Scrubber**
PM-250	**Emission Unit Group DE-4** **HQ Unloading Station**	**391-3-1-.01(2)(n)** **40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**BH-4**	**Baghouse**
PH-245 **PH-255**	**Emission Unit Group DE-8** **DFBP and HQ Conveying Line**	**391-3-1-.01(2)(n)** **40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**BH-8** **BH-9**	**Baghouse** **Baghouse**
PF-252 PF-260	**Emission Unit Group DE-11** **HQ Storage Tank and Mix Monomer Bin Vent**	**391-3-1-.01(2)(n)** **40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**BH-11**	**Baghouse**
PM-300 **PM-301** **PM-302**	**Emission Unit Group DE-13** **Fugitive Dust Collector**	**391-3-1-.01(2)(n)** **40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**BH-13**	**Baghouse**
PM-710	**Emission Unit Group DE-19** **Product Packaging**	**391-3-1-.01(2)(n)**	**3.5.1**	**BH-19**	**Baghouse**
BE-01	**Hot Oil Heater**	**391-3-1-.02(2)(d)** **391-3-1-.02(2)(g)** **40 CFR 63 Subpart DDDDD**	**3.2.1 through 3.2.3, 3.3.25 through 3.3.27, 3.4.3, 3.4.4, 3.5.6, 6.1.7, 6.2.6, 6.2.7, 6.2.10, 6.2.11**	**None**	**None**
BE-02	**Boiler**	**391-3-1-.02(2)(d)** **391-3-1-.02(2)(g)** **40 CFR 63 Subpart DDDDD** **40 CFR 60 Subpart Dc**	**3.2.1 through 3.2.3, 3.3.25 through 3.3.27, 3.4.3, 3.4.4, 3.5.6, 6.1.7, 6.2.6, 6.2.7, 6.2.10, 6.2.11**	**None**	**None**
PUSH PROCESS					
FD01	**Unit FD-1220: mDBC Storage**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FA01**	**Carbon Drum**
FD02	**Unit FD-1210: 2,5-DCBP Mix Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE01** **FT01** **FA02**	**Condenser** **Scrubber** **Carbon Drum**
FD05	**Unit FR-100: Polymerization Reactor**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02** **FA06**	**Condenser** **Carbon Drum**
FD06	**Unit FD-150: Quench Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02** **FA06**	**Condenser** **Carbon Drum**
FD07	**Unit FD-130: Catalyst Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02** **FA06**	**Condenser** **Carbon Drum**

FD08	**Unit FR-200: Digestion Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE02 FA03**	**Scrubber Carbon Drum Membrane Control (HSS)**
FD09	**Unit FD-215: Feed Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02 FA06**	**Condenser Carbon Drum**
FD11	**Unit FD-300: Polymer Slurry Preparation Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE02 FA06**	**Condenser Carbon Drum**
FD12	**Unit FD-310: Filtrate Collection Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02 FA06**	**Condenser Carbon Drum**
FD13	**Unit FD-400: 1st Wash Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD14	**Unit FD-410: Solvent Hold Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD15	**Unit FD-415: Solvent Hold Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD16	**Unit FD-420: 2nd Wash Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD17	**Unit FD-500: Heat Treatment Vessel**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD18	**Unit FD-605: Dryer Filtrate Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD19	**Unit FD-600: Polymer Dryer**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD20	**Unit FD-710: Antisolvent Batch Column**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD21	**Unit FD-719: Batch Column Receiver**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD22	**Unit FD-720: Process Hold Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD23	**Unit FD-727: Condensate Receiver**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD24	**Unit FD-725: Evaporator**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD25	**Unit FD-709: Spray Condenser**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9,**	**FE03**	**Condenser**

			3.5.1, 6.2.23	**FT03 FA07**	**Scrubber Carbon Drum Membrane Control (HSS)**
FD26	**Unit FD-731: Batch Still**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD27	**Unit FD-740: Batch Column Receiver**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD28	**Units FD-750 and FD-770: Solvent Hold Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02 FA06**	**Condenser Carbon Drums**
FD34	**Unit FT-790: Distillation Column**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD35	**Unit FD-793: Distillate Receiver**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD36	**Unit FD-905: Vent Header KO Pot**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FM01	**Alcohol Tote**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FA04**	**Carbon Drum**
FM03	**HCl Tote**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**None**	**None**
FM04	**Unit FM-312: Polymer Slurry Centrifuge**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02 FA06**	**Condenser Carbon Drum**
FF03	**Unit FF-700: Spent Solvent Storage Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FF04	**Unit FF-780: Alcohol Storage Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FA07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FF05	**Unit FF-705: Solvent Hold Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FA07**	**Condenser Carbon Drum Membrane Control (HSS)**
FF06	**Unit FF-800: Waste Water Collection Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 5.2.1, 6.2.7, 6.2.23**	**FE03 FT03 FE07**	**Condenser Scrubber Carbon Drum Membrane Control (HSS)**
FD-105	**Terminating Agent Tank**	**40 CFR 63 Subpart FFFF**	**3.3.7, 3.3.8, 3.3.9, 3.5.1, 6.2.23**	**FE02 FA06**	**Condenser Carbon Drums**

* Generally applicable requirements contained in this permit may also apply to emission units listed above. The lists of applicable requirements/standards and corresponding permit conditions are intended as a compliance tool and may not be definitive.

3.2 Equipment Emission Caps and Operating Limits

MODIFIED CONDITION

3.2.1 The Permittee shall not discharge or cause the discharge into the atmosphere from the combination of all the equipment listed below any gases which contain 100 tons per year or more of Sulfur Dioxide emissions, or 100 tons per year or more of Nitrogen Oxide emissions.
[40 CFR 52.21 Avoidance]

Source Code	Process Unit	Equipment
0A15	Amodel	Flare KB-807
0A17	Amodel	Hot Oil Heater KB-901
0A21	Amodel	Boiler UB-1210
00B8	Sulfone	Waste Heat Boiler LM-731
00H1	Sulfone	Hot Oil Heater #1
00H2	Sulfone	Hot Oil Heater #2
00P1	Xydar	Hot Oil Heater H-601
00P2	Xydar	Hot Oil Heater H-603
00P3	Xydar/Utilities	Boiler H-602
00P4	Xydar/Utilities	Boiler H-604
00C2	**Udel**	**Thermal Oxidizer**
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

3.2.2 The Permittee shall not discharge or cause the discharge into the atmosphere from the combination of all non-exempt equipment any gases which contain 100 tons per year or more of VOC emissions.

3.2.3 Deleted

MODIFIED CONDITION

3.2.4 The Permittee shall not discharge or cause the discharge into the atmosphere from the Amodel Process any gases which contain in excess of ~~10.0~~ **5.0** pounds HDMA per hour from the combination of all the sources of HDMA vapor in this facility.
[Toxic Guidelines – 391-3-1-.02(2)(a)1.]

3.2.5 Deleted

3.2.6 Deleted

3.3 Equipment Federal Rule Standards

MODIFIED CONDITION

3.3.4 The Permittee shall comply with all applicable provisions of the New Source Performance Standards as found in 40 CFR 60 Subpart A – "General Provisions" and 40 CFR 60 Subpart Dc – "Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units" for all units listed below.
[40 CFR 60 Subpart Dc]

Source Code	Process Unit	Equipment
0A17	Amodel	Hot Oil Heater KB-901
0A21	Amodel	Boiler UB-1210
00B8	Sulfone	Waste Heat Boiler LM-731
00H1	Sulfone	Hot Oil Heater #1
00H2	Sulfone	Hot Oil Heater #2
~~C12A~~	~~Sulfone~~	~~Cogeneration Facility BX~~
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

MODIFIED CONDITION

3.3.5 The Permittee shall not fire any fuel oil that contains more than 0.5 percent sulfur, by weight, and the fuel oil shall meet the specifications for "distillate" fuel oil (No. 1 or No. 2) as defined by the American Society for Testing and Materials (ASTM) in ASTM D396 – "Standard Specifications for Fuel Oils" in any equipment listed below. The fuel oil sulfur limit applies at all times, including periods of startup, shutdown, or malfunction,
[40 CFR 60.42c(d) and (i), 391-3-1-.02(2)(g) subsumed]

Source Code	Process Unit	Equipment
0A17	Amodel	Hot Oil Heater KB-901
0A21	Amodel	Boiler UB-1210
00H1	Sulfone	Hot Oil Heater #1
00H2	Sulfone	Hot Oil Heater #2
~~C12A~~	~~Sulfone~~	~~Cogeneration Facility BX~~
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

MODIFIED CONDITION

3.3.6 The Permittee shall not discharge or cause the discharge into the atmosphere from any of the equipment listed below any gases which exhibit twenty percent (20%) opacity or greater, except for one six minute period per hour of not more than twenty-seven percent (27%) opacity. The opacity standard applies at all times, except during periods of startup, shutdown, or malfunction.
[40 CFR 60.43c(c) and (d), 391-3-1-.02(2)(d)]

Source Code	Process Unit	Equipment
0A21	Amodel	Boiler UB-1210
00H1	Sulfone	Hot Oil Heater #1
00H2	Sulfone	Hot Oil Heater #2
~~C12A~~	~~Sulfone~~	~~Cogeneration Facility BX~~
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

MODIFIED CONDITION

3.3.25 The Permittee shall comply with all applicable provisions of the National Emission Standard for Hazardous Air Pollutants (NESHAP) as found in 40 CFR Part 63 in Subpart DDDDD – "Industrial, Commercial, and Institutional Boilers and Process Heaters" for the equipment listed below. These units are defined as "Gas 1" under this subpart.
[40 CFR 63 Subpart DDDDD; 40 CFR 63.7500(a)(1)]

Source Code	Process Unit	Equipment
0A17	Amodel	Hot Oil Heater KB-901
0A21	Amodel	Boiler UB-1210
00H1	Sulfone	Hot Oil Heater #1
00H2	Sulfone	Hot Oil Heater #2
00P1	Xydar	Hot Oil Heater H-601
00P2	Xydar	Hot Oil Heater H-603
00P3	Xydar/Utilities	Boiler H-602
00P4	Xydar/Utilities	Boiler H-604
~~C12A~~	~~Sulfone~~	~~Cogeneration Facility BX~~
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

3.4 Equipment SIP Rule Standards

MODIFIED CONDITION

3.4.2 The Permittee shall not cause, let, suffer, permit, or allow the rate of emissions of particulate matter from the equipment listed below in total quantities equal to or exceeding the allowable rates calculated using the following equations:
[391-3-1-.02(2)(e)]

$E = 4.1P^{0.67}$, for process input weight rate up to and including 30 tons per hour;

$E = 55P^{0.11} - 40$, for process input weight rates above 30 tons per hour.
Where:
E = emission rate in pounds per hour
P = process input weight rate in tons per hour

Source Code	Process Unit	Equipment
0A2B	Amodel	Mix Tank KD-260
0X2E	Xydar	Reactors R-201 A/B/C
0X2G	Xydar	Mixer R-202A
0X2H	Xydar	Mixer R-202B
0X2I	Xydar	Mixer R-202C
HE-1	**Jupiter**	**HCl Storage Tank PF-800**
HE-2	**Jupiter**	**Process Reactor PF-200**
DE-4	**Jupiter**	**HQ Unloading Station PM-250**
DE-8	**Jupiter**	**DFBP and HQ Conveying PH-245 & PH-255**
DE-11	**Jupiter**	**HQ Storage and mix monomer bin vent PF252 & PF-260**
FD02	**PUSH**	**Mix tank FD-1210**
FD05	**PUSH**	**Reactor FR-100**
FD19	**PUSH**	**Polymer Dryer FD-600**

MODIFIED CONDITION

3.4.3 The Permittee shall not cause, let, suffer, permit, or allow visible emissions from the equipment listed below, the opacity of which is equal to or greater than twenty percent (20%) except for one six minute period per hour of not more than twenty-seven percent (27%) opacity.
[391-3-1-.02(2)(d)3.]

Source Code	Process Unit	Equipment
00P1	Xydar	Hot Oil Heater H-601
00P2	Xydar	Hot Oil Heater H-603
00P3	Xydar/Utilities	Boiler H-602
00P4	Xydar/Utilities	Boiler H-604
0A17	Amodel	Hot Oil Heater KB-901
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

MODIFIED CONDITION

3.4.4 The Permittee shall not cause, let, suffer, permit, or allow the emissions of fly ash and/or other particulate matter from any equipment listed below in amounts equal to or exceeding the rate derived from $P = 0.5(10/R)^{0.5}$ pounds per million BTU heat input, where P equals the allowable weight of emissions of fly ash and/or particulate matter in pounds per million BTU heat input and R equals the heat input of fuel-burning equipment in million BTU per hour.
[391-3-1-.02(2)(d)2.(ii)]

Source Code	Process Unit	Equipment
0A17	Amodel	Hot Oil Heater KB-901
0A21	Amodel	Boiler UB-1210
~~C12A~~	~~Sulfone~~	~~Cogeneration Facility~~
00H1	Sulfone	Hot Oil Heater #1
00H2	Sulfone	Hot Oil Heater #2
00P1	Xydar	Hot Oil Heater H-601
00P2	Xydar	Hot Oil Heater H-603
00P3	Xydar/Utilities	Boiler H-602
00P4	Xydar/Utilities	Boiler H-604
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

3.5 Equipment Standards Not Covered by a Federal or SIP Rule and Not Instituted as an Emission Cap or Operating Limit

MODIFIED CONDITION

3.5.6 The Permittee shall not fire any fuel oil that contains more than 0.5 percent sulfur, by weight, and the fuel oil shall meet the specifications for "distillate" fuel oil (No. 1 or No. 2) as defined by the American Society for Testing and Materials (ASTM) in ASTM D396-86, "Standard Specifications for Fuel Oils" in any equipment listed below.
[391-3-1-.03(2)(c), 391-3-1-.02(2)(g) subsumed]

Source Code	Process Unit	Equipment
00C2	Udel	Udel Thermal Oxidizer
00P1	Xydar	Hot Oil Heater H-601
00P2	Xydar	Hot Oil Heater H-603
00P3	Xydar/Utilities	Boiler H-602
00P4	Xydar/Utilities	Boiler H-604
BE01	**Jupiter**	**Hot Oil Heater**
BE02	**Jupiter**	**Boiler**

PART 4.0 REQUIREMENTS FOR TESTING

4.2 Specific Testing Requirements

4.2.1 Deleted

PART 5.0 REQUIREMENTS FOR MONITORING (Related to Data Collection)

5.2 Specific Monitoring Requirements

MODIFIED CONDITION

5.2.1 The Permittee shall install, calibrate, maintain, and operate a system to continuously monitor and record the indicated parameters on the following equipment. Each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

Jupiter Process

s. Pressure drop of the gas stream through the Water Scrubber (Source Code SC2) and Carbonate Scrubber (Source Code SC1). Data shall be recorded once per working shift.

t. pH from the effluent liquid for the Carbonate Scrubber (Source Code SC1). Data shall be recorded once per working shift.

PUSH Process

u. Pressure drop of the gas stream through the FT01 Scrubber (Source ID FD02 and FD03). Data shall be recorded once per working shift.

v. Pressure drop of the gas stream through the FT02 Scrubber (Source ID FD08). Data shall be recorded once per working shift.

w. Pressure drop of the gas stream through the FT03 Scrubber (Source ID FD36). Data shall be recorded once per working shift.

x. pH of the effluent liquid from the FT01 Scrubber (Source ID FD02 and FD03). Data shall be recorded once per working shift.

y. pH of the effluent liquid from the FT02 Scrubber (Source ID FD08). Data shall be recorded once per working shift.

z. When operating in HSS mode, pressure drop of the gas stream through the membrane control device (Source ID FR-200). Data shall be recorded once per working shift, when operating in HSS mode.

PART 6.0 OTHER RECORD KEEPING AND REPORTING REQUIREMENTS

6.1 General Record Keeping and Reporting Requirements

MODIFIED CONDITION

6.1.7 For the purpose of reporting excess emissions, exceedances or excursions in the report required in Condition 6.1.4, the following excess emissions, exceedances, and excursions shall be reported: [391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

b. Exceedances: (means for the purpose of this Condition and Condition 6.1.4, any condition that is detected by monitoring or record keeping that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) do not meet the applicable emission limitation or standard consistent with the averaging period specified for averaging the results of the monitoring)

ii. Deleted

iii. Deleted

iv. Deleted

v. Deleted

c. Excursions: (means for the purpose of this Condition and Condition 6.1.4, any departure from an indicator range or value established for monitoring consistent with any averaging period specified for averaging the results of the monitoring)

Sulfone Process

iv. Any determination of outlet coolant temperature for Condensers 0C2A, 0C2G, 0C2L, 0C5A, 0C5B, 0C6A, 0C6C, 0C7A, 0C7B, **C6F, C7D, D576** greater than 12.8°C, unless condenser is routed to carbon adsorber within 15 minutes of temperature determination greater than 12.8°C.

Jupiter Process

viii. Any determination of pressure drop from:

(A) Carbonate Scrubber SC-1 (Source Code PR-200) greater than 15 inches water column.

(B) Water Scrubber SC-2 (Source Code PF-800) greater than 15 inches water column.

PUSH Process

ix. Any determination of pressure drop from:

(A) FT01, FT02, or FT03 greater than 15 inches of water.

(B) When operating in HSS mode, the membrane control device greater than 90 psia.

x. Any determination of pH from:

(A) FT01 or FT02 less than 7.

6.2 Specific Record Keeping and Reporting Requirements

6.2.8 Deleted

MODIFIED CONDITION

6.2.10 The Permittee shall submit the following reports with the semiannual report required by Condition 6.1.4:
[40 CFR 60.48c(d) and (e)][391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

c. A report of the monthly and 12-month rolling **VOC, NO_X, and SO_2 emissions**.

6.2.12 Deleted

MODIFIED CONDITION

6.2.16 The Permittee shall keep records of each incidence the condensers (0C2A, 0C2G, 0C2L, 0C5A, 0C5B, 0C6A, 0C6C, 0C7A, 0C7B, **C6F, C7D, D576**) vent to the carbon adsorber, when carbon is replaced, and when breakthrough occurs. These records shall be submitted with the report required by Condition 6.1.4.
[391-3-1-.02(6)(b)1 and 40 CFR 70.6(a)(3)(i)]

Attachments

A. List of Standard Abbreviations and List of Permit Specific Abbreviations
B. Insignificant Activities Checklist, Insignificant Activities Based on Emission Levels and Generic Emission Groups
C. List of References

ATTACHMENT A

List Of Standard Abbreviations

AIRS	Aerometric Information Retrieval System
APCD	Air Pollution Control Device
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
BTU	British Thermal Unit
CAAA	Clean Air Act Amendments
CEMS	Continuous Emission Monitoring System
CERMS	Continuous Emission Rate Monitoring System
CFR	Code of Federal Regulations
CMS	Continuous Monitoring System(s)
CO	Carbon Monoxide
COMS	Continuous Opacity Monitoring Stystem
dscf/dscm	Dry Standard Cubic Foot / Dry Standard Cubic Meter
EPA	United States Environmental Protection Agency
EPCRA	Emergency Planning and Community Right to Know Act
gr	Grain(s)
GPM (gpm)	Gallons per minute
H_2O (H2O)	Water
HAP	Hazardous Air Pollutant
HCFC	Hydro-chloro-fluorocarbon
MACT	Maximum Achievable Control Technology
MMBtu	Million British Thermal Units
MMBtu/hr	Million British Thermal Units per hour
MVAC	Motor Vehicle Air Conditioner
MW	Megawatt
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_x (NOx)	Nitrogen Oxides
NSPS	New Source Performance Standards
OCGA	Official Code of Georgia Annotated

PM	Particulate Matter
PM_{10} (PM10)	Particulate Matter less than 10 micrometers in diameter
PPM (ppm)	Parts per Million
PSD	Prevention of Significant Deterioration
RACT	Reasonably Available Control Technology
RMP	Risk Management Plan
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SO_2 (SO2)	Sulfur Dioxide
USC	United States Code
VE	Visible Emissions
VOC	Volatile Organic Compound

List of Permit Specific Abbreviations

ATTACHMENT B

NOTE: Attachment B contains information regarding insignificant emission units/activities and groups of generic emission units/activities in existence at the facility at the time of Permit issuance. Future modifications or additions of insignificant emission units/activities and equipment that are part of generic emissions groups may not necessarily cause this attachment to be updated.

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Mobile Sources	1. Cleaning and sweeping of streets and paved surfaces	1
Combustion Equipment	1. Fire fighting and similar safety equipment used to train fire fighters or other emergency personnel.	1
	2. Small incinerators that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act and are not considered a "designated facility" as specified in 40 CFR 60.32e of the Federal emissions guidelines for Hospital/Medical/Infectious Waste Incinerators, that are operating as follows: i) Less than 8 million BTU/hr heat input, firing types 0, 1, 2, and/or 3 waste. ii) Less than 8 million BTU/hr heat input with no more than 10% pathological (type 4) waste by weight combined with types 0, 1, 2, and/or 3 waste. iii) Less than 4 million BTU/hr heat input firing type 4 waste. (Refer to 391-3-1-.03(10)(g)2.(ii) for descriptions of waste types)	
	3. Open burning in compliance with Georgia Rule 391-3-1-.02 (5).	1
	4. Stationary engines burning: i) Natural gas, LPG, gasoline, dual fuel, or diesel fuel which are used exclusively as emergency generators shall not exceed 500 hours per year or 200 hours per year if subject to Georgia Rule 391-3-1-.02(2)(mmm).7 ii) Natural gas, LPG, and/or diesel fueled generators used for emergency, peaking, and/or standby power generation, where the combined peaking and standby power generation do not exceed 200 hours per year. iii) Natural gas, LPG, and/or diesel fuel used for other purposes, provided that the output of each engine does not exceed 400 horsepower and that no individual engine operates for more than 2,000 hours per year. iv) Gasoline used for other purposes, provided that the output of each engine does not exceed 100 horsepower and that no individual engine operates for more than 500 hours per year.	1 5
Trade Operations	1. Brazing, soldering, and welding equipment, and cutting torches related to manufacturing and construction activities whose emissions of hazardous air pollutants (HAPs) fall below 1,000 pounds per year.	21
Maintenance, Cleaning, and Housekeeping	1. Blast-cleaning equipment using a suspension of abrasive in water and any exhaust system (or collector) serving them exclusively.	
	2. Portable blast-cleaning equipment.	2
	3. Non-Perchloroethylene Dry-cleaning equipment with a capacity of 100 pounds per hour or less of clothes.	
	4. Cold cleaners having an air/vapor interface of not more than 10 square feet and that do not use a halogenated solvent.	
	5. Non-routine clean out of tanks and equipment for the purposes of worker entry or in preparation for maintenance or decommissioning.	1
	6. Devices used exclusively for cleaning metal parts or surfaces by burning off residual amounts of paint, varnish, or other foreign material, provided that such devices are equipped with afterburners.	1
	7. Cleaning operations: Alkaline phosphate cleaners and associated cleaners and burners.	

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Laboratories and Testing	1. Laboratory fume hoods and vents associated with bench-scale laboratory equipment used for physical or chemical analysis.	26
	2. Research and development facilities, quality control testing facilities and/or small pilot projects, where combined daily emissions from all operations are not individually major or are support facilities not making significant contributions to the product of a collocated major manufacturing facility.	3
Pollution Control	1. Sanitary waste water collection and treatment systems, except incineration equipment or equipment subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	2. On site soil or groundwater decontamination units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	3. Bioremediation operations units that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	4. Landfills that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
Industrial Operations	1. Concrete block and brick plants, concrete products plants, and ready mix concrete plants producing less than 125,000 tons per year.	
	2. Any of the following processes or process equipment which are electrically heated or which fire natural gas, LPG or distillate fuel oil at a maximum total heat input rate of not more than 5 million BTU's per hour: i) Furnaces for heat treating glass or metals, the use of which do not involve molten materials or oil-coated parts.	
	ii) Porcelain enameling furnaces or porcelain enameling drying ovens.	
	iii) Kilns for firing ceramic ware.	
	iv) Crucible furnaces, pot furnaces, or induction melting and holding furnaces with a capacity of 1,000 pounds or less each, in which sweating or distilling is not conducted and in which fluxing is not conducted utilizing free chlorine, chloride or fluoride derivatives, or ammonium compounds.	
	v) Bakery ovens and confection cookers.	
	vi) Feed mill ovens.	
	vii) Surface coating drying ovens	
	3. Carving, cutting, routing, turning, drilling, machining, sawing, surface grinding, sanding, planing, buffing, shot blasting, shot peening, or polishing; ceramics, glass, leather, metals, plastics, rubber, concrete, paper stock or wood, also including roll grinding and ground wood pulping stone sharpening, provided that: i) Activity is performed indoors; & ii) No significant fugitive particulate emissions enter the environment; & iii) No visible emissions enter the outdoor atmosphere.	46
	4. Photographic process equipment by which an image is reproduced upon material sensitized to radiant energy (e.g., blueprint activity, photographic developing and microfiche).	
	5. Grain, food, or mineral extrusion processes	
	6. Equipment used exclusively for sintering of glass or metals, but not including equipment used for sintering metal-bearing ores, metal scale, clay, fly ash, or metal compounds.	
	7. Equipment for the mining and screening of uncrushed native sand and gravel.	
	8. Ozonization process or process equipment.	
	9. Electrostatic powder coating booths with an appropriately designed and operated particulate control system.	
	10. Activities involving the application of hot melt adhesives where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	
	11. Equipment used exclusively for the mixing and blending water-based adhesives and coatings at ambient temperatures.	
	12. Equipment used for compression, molding and injection of plastics where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	2
	13. Ultraviolet curing processes where VOC emissions are less than 5 tons per year and HAP emissions are less than 1,000 pounds per year.	

INSIGNIFICANT ACTIVITIES CHECKLIST

Category	Description of Insignificant Activity/Unit	Quantity
Storage Tanks and Equipment	1. All petroleum liquid storage tanks storing a liquid with a true vapor pressure of equal to or less than 0.50 psia as stored.	8
	2. All petroleum liquid storage tanks with a capacity of less than 40,000 gallons storing a liquid with a true vapor pressure of equal to or less than 2.0 psia as stored that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	3. All petroleum liquid storage tanks with a capacity of less than 10,000 gallons storing a petroleum liquid.	
	4. All pressurized vessels designed to operate in excess of 30 psig storing petroleum fuels that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	
	5. Gasoline storage and handling equipment at loading facilities handling less than 20,000 gallons per day or at vehicle dispensing facilities that are not subject to any standard, limitation or other requirement under Section 111 or 112 (excluding 112(r)) of the Federal Act.	1
	6. Portable drums, barrels, and totes provided that the volume of each container does not exceed 550 gallons.	1
	7. All chemical storage tanks used to store a chemical with a true vapor pressure of less than or equal to 10 millimeters of mercury (0.19 psia).	18

INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity
Jupiter DIW Tank PF-520	**1**
Jupiter PSV Relief Tank PD-901	**1**
Jupiter Carbonate Tank PF-530	**1**
Jupiter Calcium Chloride Storage Tank	**1**
Jupiter Emission Emissions Unit Group AE-1 (Non-VOC Solvent Equilibrium) PD-101, PD-401, PD-402, PD-403 PD-404 PD-400 PD-420 PD-430 PD-605, PD-625, PT-500, PT-600, PT-620, PD-615	**14**
Jupiter Emission Unit Group AE-2 (Slop Tanks) PF-501, PF-502, PF-503, PF-504, PF-505, PF-506, PF-515	**7**
Jupiter PM-645 (Emission Unit Group AE-3)	**1**
Jupiter PM-700 (Emission Unit Group AE-4)	**1**
Jupiter PD-610, PT-610 (Emission Unit Group AE-5)	**2**
Jupiter Fluidized Bed Dryer PM-701(Emission Unit Group AE-6)	**1**
Jupiter PM-230 DPS Unloading Station (Emission Unit Group DE-1)	**1**
Jupiter PM-235 LiCl Unloading Station (Emission Unit Group DE-2)	**1**
Jupiter PM-240 DFBP Unloading Station (Emission Unit Group DE-3)	**1**
Jupiter PM-260 Na2CO3 Unloading Station (Emission Unit Group DE-5)	**1**
Jupiter PM-270 K2CO3 Unloading Station (Emission Unit Group DE-6)	**1**
Jupiter PM-265 Na2CO3 Conveying Line (Emission Unit Group DE-7)	**1**
Jupiter PM-242, PF-260 DFBP storage tank and mix monomer bin vent ((Emission Unit Group DE-10)	**2**

Jupiter PM-262, PF-280 Na2CO3 storage tank and mix carbonate bin vent ((Emission Unit Group DE-12)	**2**
Jupiter PF-411, PF-413, PF-642 Product/DPS conveying (Emission Unit Group DE-14)	**2**
Jupiter PF-702, PF-703 Drier Outlet Hopper (Emission Unit Group DE-17)	**2**
Jupiter PM-208 K2CO3 Feed Hopper (Emission Unit DE-21)	**1**
Jupiter DPS Storage Tank 1 PD-210 (Emission Group ME-1)	**1**
Jupiter DPS Storage Tank 2 PD-211 (Emission Group ME-2)	**1**
Jupiter DPS Flush Tank PD-202 (Emission Group ME-3)	**1**
Jupiter DFBP Termination Tank PD-203 (Emission Group ME-4)	**1**
Jupiter Termination Pot PD-204 (Emission Group ME-5)	**1**
Jupiter Therminol XP Expansion Tank PD-617 (Emission Group ME-7)	**1**
Jupiter Hot Oil Blowdown Tank PD-1102 (Emission Group ME-8)	**1**
Jupiter Hot Oil Expansion Tank PD-1101 (Emission Group ME-9)	**1**
PUSH FD29, FD31 Adsorbent Columns (FT-753A and FT-753B)	**2**
PUSH FD30, FD32 Adsorbent Columns (FT-755A and FT-755B)	**2**
PUSH FD33 Solvent Hold Tank (FF-760)	**1**
PUSH FM13 DCBP Unloading (FM-1200)	**1**
PUSH FM14 MgO Weigh-up/Drying Dust Collection (FM-1215)	**1**
PUSH FM15 Zinc Unloading (FM-162)	**1**
PUSH FM16 KI/TPP Dust Collection (FM-1310)	**1**
PUSH FM17 KI/TPP/Catalyst Dust Collection (FC-135)	**1**
PUSH FM18 HPMP Weigh-up/ Dust Collection (FM-506)	**1**
PUSH FF19 Polymer Product Storage Hopper (FH-313)	**1**
PUSH FF20 Polymer Product Packaging (FF-313)	**1**
PUSH FM06 Drumming Station (FM-776)	**1**
PUSH FD03 Zinc Tank (FR-112)	**1**
PUSH FM02 Acetic acid tote	**1**
Sulfone Storage Tank LF-980	**1**

ATTACHMENT B (continued)

GENERIC EMISSION GROUPS

Emission units/activities appearing in the following table are subject only to one or more of Georgia Rules 391-3-1-.02 (2) (b), (e) &/or (n). Potential emissions of particulate matter, from these sources based on TSP, are less than 25 tons per year per process line or unit in each group. Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

Description of Emissions Units / Activities	Number of Units (if appropriate)	Applicable Rules		
		Opacity Rule (b)	PM from Mfg Process Rule (e)	Fugitive Dust Rule (n)
AEG1 Amodel Production Unit	4	Yes	Yes	No
CEG1 Compounding	63	Yes	Yes	No
JRN1 Just Rule N Equipment	9	No	No	Yes
SEG1 Sulfone Production Unit	1	Yes	Yes	No
UE G1 Udel Production Unit	11	Yes	Yes	No
XEG1 Xydar Production Unit	26	Yes	Yes	No

The following table includes groups of fuel burning equipment subject only to Georgia Rules 391-3-1-.02 (2) (b) & (d).Any emissions unit subject to a NESHAP, NSPS, or any specific Air Quality Permit Condition(s) are not included in this table.

Description of Fuel Burning Equipment	Number of Units
Fuel burning equipment with a rated heat input capacity of less than 10 million BTU/hr burning only natural gas and/or LPG.	0
Fuel burning equipment with a rated heat input capacity of less than 5 million BTU/hr, burning only distillate fuel oil, natural gas and/or LPG.	0
Any fuel burning equipment with a rated heat input capacity of 1 million BTU/hr or less.	0

ATTACHMENT C

LIST OF REFERENCES

1. The Georgia Rules for Air Quality Control Chapter 391-3-1. All Rules cited herein which begin with 391-3-1 are State Air Quality Rules.

2. Title 40 of the Code of Federal Regulations; specifically 40 CFR Parts 50, 51, 52, 60, 61, 63, 64, 68, 70, 72, 73, 75, 76 and 82. All rules cited with these parts are Federal Air Quality Rules.

3. ***Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Testing and Monitoring Sources of Air Pollutants.***

4. ***Georgia Department of Natural Resources, Environmental Protection Division, Air Protection Branch, Procedures for Calculating Air Permit Fees***.

5. Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Volume I: Stationary Point and Area Sources. This information may be obtained from EPA's TTN web site at *www.epa.gov/ttn/chief/ap42/index.html*.

6. The latest properly functioning version of EPA's **TANKS** emission estimation software. The software may be obtained from EPA's TTN web site at *www.epa.gov/ttn/chief/software/tanks/index.html*.

7. The Clean Air Act (42 U.S.C. 7401 et seq).

8. White Paper for Streamlined Development of Part 70 Permit Applications, July 10, 1995 (White Paper #1).

9. White Paper Number 2 for Improved Implementation of the Part 70 Operating Permits Program, March 5, 1996 (White Paper #2).