



## **Bureau of Air Quality Conditional Major Operating Permit**

**CPJ Technologies  
200 Tanner Drive  
Taylors, South Carolina 29687  
Greenville County**

Pursuant to the provisions of the *Pollution Control Act*, Sections 48-1-50(5) and 48-1-110(a), the 1976 *Code of Laws of South Carolina*, as amended, and *South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards*, the Bureau of Air Quality authorizes the operation of this facility and the equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Conditional Major Operating Permit request received on September 26, 2012, as amended. All official correspondence, plans, permit applications and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction or operating permit may be grounds for permit revocation.

The operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

**Permit Number: CM-1200-0068**

**Issue Date: August 15, 2016  
Expiration Date: September 30, 2026**

**Effective Date: October 1, 2016  
Renewal Due Date: June 30, 2026**

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**Director, Engineering Services Division  
Bureau of Air Quality**

**CPJ Technologies**  
**CM-1200-0068**

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<b>RECORD OF REVISIONS</b>	
<b>Date</b>	<b>Description of Change</b>

**A. EMISSION UNIT DESCRIPTION**

<b>Emission Unit ID</b>	<b>Emission Unit Description</b>
01	Boiler No. 1
02	Boiler No. 2
03	Boiler No. 3
04	VOID - 2.0 Million BTU/hr DowTherm Heater.
05	Reactor Group 1
06	Reactor Group 2
07	VOID - Powder Dye and Dry Mix Process
08	VOID - Sulfur Dye
09	VOID - Wastewater Equalization
10	VOID - NSPS Subpart Kb Storage Tanks. Tanks no longer subject to NSPS Subpart Kb. The remaining 2 tanks are now listed on Exempt Sources List
11	VOID - Non-Exempt Storage Tanks. These tanks are now listed on Exempt Sources List
12	Wet Blending Process.

**B EQUIPMENT AND CONTROL DEVICE(S)**

**B.1 EQUIPMENT FOR EMISSION UNIT 01- Boiler 1**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
B01	33.5 x 10 <sup>6</sup> BTU/hr Natural Gas/No. 2 Fuel Oil fired boiler	1963	None	EP07

**B.2 EQUIPMENT FOR EMISSION UNIT 02 – Boiler 2**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
B02	Boiler No. 2. - 4.313 10 <sup>6</sup> BTU/hr Natural Gas/No. 2 Fuel Oil fired boiler.	1963	None	EP08

**B.3 EQUIPMENT FOR EMISSION UNIT 03 – Boiler 3**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
B03	Boiler No.3- 3.45 10 <sup>6</sup> BTU/hr Natural Gas/No. 2 Fuel Oil fired boiler	1960	None	EP07

**B.4 EQUIPMENT FOR EMISSION UNIT 05 – Reactor Group 1**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
C1	750-gallon Reactor 1	1961	TK-020	TK-020
C4	750-gallon Mix Tank (monomer feed tank for C1)	1961	N/A	EF-002
C202	3500-gallon stainless steel reactor equipped with condenser. The reactor will be heated by an electric heater and cooled by a heat exchanger.	2011	TK-020	TK-020

**B.5 CONTROL DEVICE(S) FOR EMISSION UNIT 05 – Reactor Group 1**

<b>Control Device ID</b>	<b>Control Device Description</b>	<b>Installation/Modification Date</b>	<b>Pollutant(s) Controlled</b>
TK-020	Caustic Scrubber	2006	VOC/HAP

**B.6 EQUIPMENT FOR EMISSION UNIT 06 – Reactor Group 2**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
C11	2,000-gallon Reactor 11	1969	TK-020	TK-020
C6	750 gal Reactor 6	1964	TK-020	TK-020
C8	3,500 gal Reactor 8	1964	TK-020	TK-020
WT02	500 Gallon Weigh Tank 2.	1969	TK-020	TK-020
WT03	1,500 Gallon Charge Tank	2006	TK-020	TK-020
T42	5,200 gallon Hapatane storage tank.	1967	None	N/A
T43	5,200 gallon IPA storage tank.	1967	None	N/A
T45	10,000-gallon Ethyl Acetate storage tank. Moved from Unit ID 11.	1987	None	N/A
T12	7,800 gal Butyl Acrylate storage tank	2007	TK-020	TK-020
T34	8, 200 gallon 2-Ethylhexyl Acrylate	2007	TK-020	TK-020
C13	6,680-gallon mix tank.	2007	TK-020	TK-020
C14	6,000-gallon reactor for emulsification polymerization	2011	TK-020	TK-020
C14MF	5,000-gallon monomer feed tank supporting C14	2011	TK-020	TK-020
C14CF	250-gallon catalyst feed tank supporting C14	2011	TK-020	TK-020

**B.6 EQUIPMENT FOR EMISSION UNIT 06 – Reactor Group 2**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
C15	3,500-gallon glass-lined reactor, equipped with condenser for acrylic polymerization	2011	TK-020	TK-020
C15MF	2,000-gallon monomer feed tank supporting C15	2011	TK-020	TK-020
C15CF	250-gallon catalyst fed tank supporting C15	2011	TK-020	TK-020

**B.7 CONTROL DEVICE(S) FOR EMISSION UNIT 06 – Reactor Group 2**

<b>Control Device ID</b>	<b>Control Device Description</b>	<b>Installation/Modification Date</b>	<b>Pollutant(s) Controlled</b>
TK-020	Caustic Scrubber	2006	VOC/HAP

**B.8 EQUIPMENT FOR EMISSION UNIT 12 – Wet Blending Process**

<b>Equipment ID</b>	<b>Equipment Description</b>	<b>Installation/Modification Date</b>	<b>Control Device ID</b>	<b>Emission Point ID</b>
MT-104	2,500-gallon Mix Tank	2000	N/A	FAN9-FAN12
MT-107	1,180-gallon Mix Tank	2000	N/A	FAN9-FAN12
SD-1	Reactor SD-1	1987	N/A	FAN9-FAN12
SD-2	Reactor SD-2	1987	N/A	FAN9-FAN12
C4A	2,115-gallon Reactor 4A (Cold Mix Tank)	1962	N/A	EF-002
C4B	3,000-gallon Reactor 4B (Cold Mix Tank)	1962	N/A	EF-002
C10	2,500-gallon Reactor 10 (Cold Mix Tank)	1986	N/A	FAN6
C215	Hot/Cold Blends: 7,700-gallon stainless steel reactor	2011	N/A	FAN9-FAN12

**B.9 CONTROL DEVICE(S) FOR EMISSION UNIT 12 – Wet Blending Process**

<b>Control Device ID</b>	<b>Control Device Description</b>	<b>Installation/Modification Date</b>	<b>Pollutant(s) Controlled</b>
TK-020	Caustic Scrubber	2006	VOC/HAP

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Condition
C.1	<p><b>Emission Unit ID:</b> All</p> <p><b>Equipment/Control Device ID:</b> All</p> <p>(S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.</p>
C.2	<p><b>Emission Unit ID:</b> All</p> <p><b>Equipment/Control Device ID:</b> All</p> <p>The owner/operator shall inspect, calibrate, adjust, and maintain continuous monitoring systems, monitoring devices, and gauges in accordance with manufacturer’s specifications or good engineering practices. The owner or operator shall maintain on file all measurements including continuous monitoring system or monitoring device performance measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required in a permanent form suitable for inspection by Department personnel.</p>
C.3	<p><b>Emission Unit ID:</b> 05, 06</p> <p><b>Equipment/Control Device ID:</b> (C1 &amp; C202) /TK-020 All*/TK-020 *All except T42, T43 &amp; T45</p> <p>All gauges shall be readily accessible and easily read by operating personnel and Department personnel (i.e. on ground level or easily accessible roof level). Monitoring parameter readings (i.e., pressure drop readings, etc.) and inspection checks shall be maintained in logs (written or electronic), along with any corrective action taken when deviations occur. Each incidence of operation outside the operational ranges, including date and time, cause, and corrective action taken, shall be recorded and kept on site. Exceedance of operational range shall not be considered a violation of an emission limit of this permit, unless the exceedance is also accompanied by other information demonstrating that a violation of an emission limit has taken place. Reports of these incidences shall be submitted annually. If no incidences occurred during the reporting period then a letter shall indicate such.</p>

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

<b>Condition Number</b>	<b>Condition</b>
	Any alternative method for monitoring control device performance must be preapproved by the Department and shall be incorporated into the permit as set forth in S.C. Regulation 61-62.1 Section II.
C.4	<p><b>Emission Unit ID:</b> 01</p> <p><b>Equipment/Control Device ID:</b> B01</p> <p>(S.C. Regulation 61-62.5, Standard No. 5.2) Any existing source where a burner assembly is replaced with another burner assembly after June 25, 2004, regardless of size or age of the burner assembly to be replaced shall be replaced with a low NO<sub>x</sub> burner assembly or equivalent technology, and shall achieve a 30 percent reduction from uncontrolled NO<sub>x</sub> emission levels based upon manufacturer's specifications. An exemption from this requirement shall be granted when a single burner assembly is being replaced in an existing source with multiple burners due to non-routine maintenance. The replacement of individual components such as burner heads, nozzles, or windboxes does not trigger this requirement.</p> <p>The owner or operator shall notify and register the burner assembly replacement with the Department, in writing, within 7 days of replacing the existing burner assembly. Notification will be provided on the Department's <i>Low NO<sub>x</sub> Burner Assembly Replacement Notification</i> Form D-2935. Those affected sources that wish to receive an emission reduction credit for the control device will be required to submit a construction permit application. Those affected sources requesting an alternative control methodology must receive written approval prior to burner replacement.</p> <p>The owner or operator shall perform tune-ups every twenty-four (24) months in accordance with manufacturer's specifications or with good engineering practices. The first tune-up shall be conducted no more than twenty-four (24) months from replacement of a burner assembly for affected existing sources. Each subsequent tune-up shall be conducted no more than twenty-four (24) months after the previous tune-up.</p> <p>All tune-up records are required to be maintained on site and available for inspection by the Department for a period of five (5) years from the date generated.</p> <p>The owner or operator shall develop and retain a tune-up plan on file.</p>
C.5	<p><b>Emission Unit ID:</b> 01, 02, &amp; 03</p> <p><b>Equipment/Control Device ID:</b> B01, B02, &amp; B03</p> <p>For any source test required under an applicable standard or permit condition, the owner, operator, or representative shall comply with S.C. Regulation 61-62.1, Section IV - Source Tests.</p> <p>Unless approved otherwise by the Department, the owner, operator, or representative shall ensure that source tests are conducted while the source is operating at the maximum expected production</p>

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

<b>Condition Number</b>	<b>Condition</b>
	<p>rate or other production rate or operating parameter which would result in the highest emissions for the pollutants being tested. Some sources may have to spike fuels or raw materials to avoid being subjected to a more restrictive feed or process rate. Any source test performed at a production rate less than the rated capacity may result in permit limits on emission rates, including limits on production if necessary.</p> <p>The owner or operator shall comply with any limits that result from conducting a source test at less than rated capacity. A copy of the most recent Department issued source test summary letter, whether it imposes a limit or not, shall be maintained with the operating permit, for each source that is required to conduct a source test.</p> <p>Site-specific test plans and amendments, notifications, and source test reports shall be submitted to the Manager of the Source Evaluation Section, Bureau of Air Quality.</p>
C.6	<p><b>Emission Unit ID:</b> 01, 02, &amp; 03</p> <p><b>Equipment/Control Device ID:</b> B01, B02, &amp; B03</p> <p>In accordance with S.C. Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section II - Particulate Matter Emissions, the allowable discharge of particulate matter resulting from the fuel burning operations is 0.6 pounds per million BTU input.</p>
C.7	<p><b>Emission Unit ID:</b> 01, 02, &amp; 03</p> <p><b>Equipment/Control Device ID:</b> B01, B02, &amp; B03</p> <p>In accordance with S.C. Regulation 61-62.5, Standard No. 1 - Emissions from Fuel Burning Operations, Section III - Sulfur Dioxide Emissions, the maximum allowable discharge of sulfur dioxide (SO<sub>2</sub>) resulting from the fuel burning operations is 2.3 pounds per million BTU input.</p> <p>Fuel oil sulfur content shall be less than or equal to 0.5% percent by weight. Fuel oil supplier certification shall be obtained for each batch of oil received and stored on site.</p>
C.8	<p><b>Emission Unit ID:</b> 06, 12</p> <p><b>Equipment/Control Device ID:</b> T42, T43 &amp; T45, (T12, T34, WT03, C13, C14, C14MF, C14CF, C15, C15MF, C15CF) /TK-02 SD-1, SD-2, C10</p> <p>In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began after December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 20%.</p>
C.9	<p><b>Emission Unit ID:</b> 05, 06, &amp; 12</p>

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Condition								
	<p><b>Equipment/Control Device ID:</b> (C1 &amp; C202) /TK-020, C4 (C11, C6, C8, &amp; WTO2) /TK-020 C4A, C4B, C215</p> <p>In accordance with S.C. Regulation 61-62.5, Standard No. 4 - Emissions from Process Industries, Section IX - Visible Emissions (Where Not Specified Elsewhere), where construction or modification began on or before December 31, 1985, emissions (including fugitive emissions) shall not exhibit an opacity greater than 40%.</p>								
C.10	<p><b>Emission Unit ID:</b> 05, 06, &amp; 12</p> <p><b>Equipment/Control Device ID:</b> (C1 &amp; C202) /TK020 C14/TK-020 C4A, C4B, C10</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions shall be limited to the rate specified by use of the following equations:            For process weight rates less than or equal to 30 tons per hour  <math display="block">E = (F) 4.10P^{0.67} \text{ and}</math>           For process weight rates greater than 30 tons per hour  <math display="block">E = (F) 55.0P^{0.11} - 40</math>           Where E = the allowable emission rate in pounds per hour            P = process weight rate in tons per hour            F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4</p> <p>For the purposes of compliance with this condition, the process boundaries are defined as follows:</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th align="center">Process/Equipment IDs</th> <th align="center">Max Process Weight Rate (ton/hr)</th> </tr> </thead> <tbody> <tr> <td align="center">Wet Blending Process</td> <td align="center">0.824</td> </tr> <tr> <td align="center">Reactor Group 1</td> <td align="center">0.16</td> </tr> <tr> <td align="center">Reactor Group 2</td> <td align="center">0.25</td> </tr> </tbody> </table>	Process/Equipment IDs	Max Process Weight Rate (ton/hr)	Wet Blending Process	0.824	Reactor Group 1	0.16	Reactor Group 2	0.25
Process/Equipment IDs	Max Process Weight Rate (ton/hr)								
Wet Blending Process	0.824								
Reactor Group 1	0.16								
Reactor Group 2	0.25								
C.11	<p><b>Emission Unit ID:</b> 05, 06</p> <p><b>Equipment/Control Device ID:</b> C1 &amp; C202 /TK-020 All except T42, T43 &amp; T45 /TK-020</p>								

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

<b>Condition Number</b>	<b>Condition</b>
	<p>The owner/operator shall continue to operate and maintain pump pressure gauges on the wet scrubber. Each parameter shall be recorded each shift during source operation. Pump curve shall be readily accessible for verification by operating personnel and Department personnel. Operation and maintenance checks shall be made on at least a weekly basis.</p> <p>The scrubber shall be in place and operational whenever processes controlled by it are running, except during periods of scrubber malfunction or mechanical failure.</p> <p>Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from operational history data which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>
C.12	<p><b>Emission Unit ID:</b> 05, 06</p> <p><b>Equipment/Control Device ID:</b> C1 &amp; C202/TK-020 All* /TK-020 *All except T42, T43 &amp; T45</p> <p>The owner/operator shall continue to perform daily pH measurements and weekly titrations of the scrubbing solution to determine the chemical strength of the wet scrubber. Laboratory log sheets of the NaOH concentrations shall be readily accessible for verification by operating personnel and Department personnel. The scrubber shall be in place and operational whenever processes controlled by it are running, except during periods of scrubber malfunction or mechanical failure</p> <p>Operational ranges for the monitored parameters have been established to provide a reasonable assurance of compliance. These operational ranges for the monitored parameters were derived from operational history data which demonstrate the proper operation of the equipment in compliance. The facility shall maintain previously established operational ranges for these monitored parameters. The operating ranges may be updated using this procedure, following submittal to the Bureau.</p>
C.13	<p><b>Emission Unit ID:</b> Facility wide</p> <p><b>Equipment/Control Device ID:</b> All</p> <p>(S.C. Regulation 61-62.1, Section II.E; S.C. Regulation 61-62.1, Section II.G) The facility has agreed to federally enforceable operating limitations to limit its potential to emit to less than 10 tons per year for any single HAP emission and 25 tons per year for any combination of HAP emissions and 100 tons per year for VOC emissions to avoid MACT, and Title V.</p> <p>The owner/operator shall maintain records of all volatile organic compounds (VOC) and hazardous air pollutants (HAP). These records shall include the total amount of each material used, the VOC content</p>

**C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS**

Condition Number	Condition
	<p>in percent by weight of each material, the HAP content in percent by weight of each material, and any other records necessary to determine VOC and HAP emissions. Total VOC and HAP emissions shall be calculated on a monthly basis, and a twelve-month rolling sum shall be calculated for total VOC and HAP emissions. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve-month rolling sum shall be less than 100 tons of VOC, 10 tons of a single HAP or 25 tons of any combination of HAP. Reports of the calculated values and the twelve-month rolling sum, calculated for each month in the reporting period, shall be submitted semiannually.</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be submitted, postmarked no later than 180 calendar days after the effective date of the operating permit. Subsequent submittals of the algorithm are required within 30 days of the change if the algorithm or basis for emissions is modified or the Department requests additional information.</p>

**D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY**

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	ZZZZ (Emergency Generators see note 3 and 4)	N/A	N/A	N/A
<p>1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.</p> <p>2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and/or 40 CFR Part 63. The MACT reporting schedule may be adjusted to coincide with the permit's reporting schedule with prior approval from the Department in accordance with §63.10.a.5. This request may be made 1 year after the compliance date for the associated MACT standard.</p> <p>3. Facilities with emergency generators are not required to submit reports. Only facilities with non-emergency engines are required to submit semi annual reports.</p> <p>4. Facilities with emergency engines shall comply with the operations limits specified in 40 CFR 63.6640(f).</p>				

**E. NESHAP - CONDITIONS**

Condition Number	Condition
E.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, South Carolina Department of Health and Environmental Control - Bureau of Air Quality.
E.2	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States

**E. NESHAP - CONDITIONS**

Condition Number	Condition
	Environmental Protection Agency (US EPA) at the following address or electronically as required by the specific subpart:  <p align="center"><b>US EPA, Region 4</b> <b>Air, Pesticides and Toxics Management Division</b> <b>61 Forsyth Street SW</b> <b>Atlanta, GA 30303</b></p>
E.3	Emergency power generators less than or equal to 150 kilowatt (kW) rated capacity or greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance with a method to record the actual hours of use such as an hour meter have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1. These sources shall still comply with the requirements of all applicable regulations including but not limited to the following:  New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions); NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines); NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines); National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).

**F. PERMIT FLEXIBILITY**

Condition Number	Conditions
F.1	The facility may install exempt sources as allowed in S.C. Regulation 61-62.1, Section II.B, without revising or reopening the operating permit. The addition of these sources is allowed without a construction permit except when the activity triggers a new operating permit status (i.e. does not potentially subject the facility to the Title V operating permit program) and/or any activity triggers major source or synthetic minor permitting requirements. A list of exempt sources must be maintained on site, along with any necessary documentation to support the determination that the source is exempt, and shall be made available to a Department representative upon request. The list and necessary documentation shall be submitted with the next renewal application. Emissions from these sources shall be reflected in the facility-wide emissions tabulation in any subsequent construction permit application.

**G. AMBIENT AIR STANDARDS REQUIREMENTS**

Condition Number	Condition
G.1	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.</p>

**H. PERIODIC REPORTING SCHEDULE**

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Quarterly	January-March April-June July-September October-December	April 30 July 30 October 30 January 30
Semiannual	January-June April-September July-December October-March	July 30 October 30 January 30 April 30
Annual	January-December April-March July-June October-September	January 30 April 30 July 30 October 30

**H. PERIODIC REPORTING SCHEDULE**

<b>Compliance Monitoring Report Submittal Frequency</b>	<b>Reporting Period (Begins on the effective date of the permit)</b>	<b>Report Due Date</b>
<p>Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change.</p>		

**I. REPORTING CONDITIONS**

<b>Condition Number</b>	<b>Condition</b>
I.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit.
I.2	<p>All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address:</p> <p align="center"><b>2600 Bull Street Columbia, SC 29201</b></p> <p>The contact information for the local EQC Regional office can be found at: <b><a href="http://www.scdhec.gov">http://www.scdhec.gov</a></b></p>
I.3	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.
I.4	<p>(S.C. Regulation 61-62.1, Section II.J) For sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Quality Control Regional office within 24 hours after the beginning of the occurrence.</p> <p>The owner or operator shall also submit a written report within 30 days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall include, at a minimum, the following:</p> <ol style="list-style-type: none"> <li>1. The identity of the stack and/or emission point where the excess emissions occurred;</li> <li>2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;</li> <li>3. The time and duration of excess emissions;</li> <li>4. The identity of the equipment causing the excess emissions;</li> <li>5. The nature and cause of such excess emissions;</li> <li>6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;</li> <li>7. The steps taken to limit the excess emissions; and,</li> <li>8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner</li> </ol>

**I. REPORTING CONDITIONS**

Condition Number	Condition
	consistent with good practice for minimizing emissions.

**J. GENERAL CONDITIONS**

Condition Number	Condition
J.1	The owner or operator shall comply with S.C. Regulation 61-62.2 "Prohibition of Open Burning."
J.2	The owner or operator shall comply with S.C. Regulation 61-62.3 "Air Pollution Episodes."
J.3	The owner or operator shall comply with S.C. Regulation 61-62.4 "Hazardous Air Pollution Conditions."
J.4	This permit only covers emission units and control equipment while physically present at the indicated facility. Unless the permit specifically provides for the equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted facility, notwithstanding the expiration date specified on the permit.
J.5	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.
J.6	<p>In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator shall demonstrate the affirmative defense of an emergency through properly signed, contemporaneous operating logs, and other relevant evidence that verify:</p> <ol style="list-style-type: none"> <li>1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency;</li> <li>2. The permitted source was at the time the emergency occurred being properly operated;</li> <li>3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and</li> <li>4. The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II.J.1.c.i through viii. The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.</li> </ol> <p>In any enforcement action, the owner or operator seeking to establish the occurrence of an emergency has the burden of proof. This provision is in addition to any emergency, or upset provision contained in any applicable requirement.</p>

**J. GENERAL CONDITIONS**

Condition Number	Condition
J.7	<p>(S.C. Regulation 61-62.1, Section II.O) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:</p> <ol style="list-style-type: none"> <li>1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit.</li> <li>2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.</li> <li>3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.</li> <li>4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.</li> </ol>

**K. PERMIT RENEWAL, MODIFICATION, EXPIRATION AND TRANSFER OF OWNERSHIP**

Condition Number	Condition
K.1	<p>(S.C. Regulation 61-62.1, Section II.H) The owner or operator shall submit an operating permit renewal request to the Department within 90 days prior to the operating permit expiration date. The operating permit renewal requests shall include a description of any changes at the facility that have occurred since issuance of the last operating permit that may affect the operating permit or operating permit review. In general, the description shall include any addition, alteration or removal of sources, including sources exempt from construction permit requirements; addition, alteration or removal of emission limitations; any changes to monitoring, recordkeeping, or reporting requirements; and any changes or additions to special permit conditions.</p>
K.2	<p>Submission of a request for renewal meeting the requirements in S.C. Regulation 61-62.1, Section II.H, shall allow the owner or operator to continue operating pursuant to the most recent operating permit, until such time as the Department has taken final action on the request for renewal.</p>
K.3	<p>This permit may be reopened by the Department for cause or to include any new standard or regulation which becomes applicable to a source during the life of the permit.</p>
K.4	<p>This permit may be modified by the Department for cause, to include any applicable requirement or to add or alter a permit's expiration date.</p>
K.5	<p>(S.C. Regulation 61-62.1, Section II.M) Within 30 days of the transfer of ownership or operation of a facility, the current permit holder and prospective new owner or operator shall submit to the Director of Engineering Services a written request for transfer of the source operating or construction permits. The written request for transfer of the source operating or construction permit shall include any changes pertaining to the facility name and mailing address; the name, mailing address, and telephone number of the owner or operator for the facility; and any proposed changes to the permitted activities of the source. Transfer of the operating or construction permits will be effective upon written approval by the Department.</p>

## ATTACHMENT - Emission Rates for Ambient Air Standards

### CPJ Technologies

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The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

<b>AMBIENT AIR QUALITY STANDARDS - STANDARD NO. 2</b>						
Emission Point ID	Emission Rates (lbs/hr)					
	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	Lead
EP02	--	--	0.992	0.280	--	--
EP03	--	--	0.00225	--	--	--
EP07	--	--	1.75	0.492	--	--
EP08	--	--	2.19	0.616	--	--
EP09	--	--	17.0 (1.70)	4.790	--	--
EP02	0.028	0.028	0.992	0.280	0.070	--
EP04	0.013	0.013	--	--	--	--
EP07	0.049	0.049	0.175	0.493	0.284	--
EP08	0.062	0.062	0.219	0.616	0.354	--
EP09	0.479	0.479	--	--	2.750	--
F07	0.013	0.013	--	--	--	--
F08	0.013	0.013	--	--	--	--
F10	0.01975	0.01975	--	--	--	--
F11	0.01975	0.01975	--	--	--	--
Fan5	0.00667	0.00667	--	--	--	--
Fan6	0.00667	0.00667	--	--	--	--
Fan7	0.00667	0.00667	--	--	--	--
Fan11	0.01975	0.01975	--	--	--	--
Fan12	0.01975	0.01975	--	--	--	--
TK-020	0.028	0.028	--	--	--	--

<b>TOXIC AIR POLLUTANTS - STANDARD NO. 8</b>				
Emission Point ID	Emission Rates (lbs/hr)			
	Acrylamide	Ethylene Glycol	Formic Acid	Glycol Ethers
	79-06-1	107-21-1	64-18-6	--
Fan5	--	6.55E-04	--	8.67E-03
Fan6	--	6.55E-04	--	8.67E-03
Fan7	--	6.55E-04	--	8.67E-03
TK-020	4.65E-06	4.91E-05	1.24E-05	6.50E-04

**ATTACHMENT - Emission Rates for Ambient Air Standards**

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<b>TOXIC AIR POLLUTANTS - STANDARD NO. 8</b>				
<b>Emission Point ID</b>	<b>Emission Rates (lbs/hr)</b>			
	<b>Acrylamide</b>	<b>Ethylene Glycol</b>	<b>Formic Acid</b>	<b>Glycol Ethers</b>
	<b>79-06-1</b>	<b>107-21-1</b>	<b>64-18-6</b>	<b>--</b>
FugitiveSW	9.22E-05	2.95E-03	2.26E-04	3.86E-02

<b>TOXIC AIR POLLUTANTS - STANDARD NO. 8</b>				
<b>Emission Point ID</b>	<b>Emission Rates (lbs/hr)</b>			
	<b>Maleic Anhydride</b>	<b>Methanol</b>	<b>Phthalic Anhydride</b>	<b>Styrene</b>
	<b>108-31-6</b>	<b>67-56-1</b>	<b>85-44-9</b>	<b>100-42-5</b>
F10	--	1.00E-03	--	--
F11	--	1.00E-03	--	--
Fan5	7.00E-07	--	5.09E-07	5.33E-03
Fan6	7.00E-07	--	5.09E-07	5.33E-03
Fan7	7.00E-07	--	5.09E-07	5.33E-03
Fan8	--	6.00E-03	--	--
Fan11	--	1.00E-03	--	--
Fan12	--	1.00E-03	--	--
TK-020	5.25E-08	9.10E-04	3.82E-08	7.50E-04
FugitiveSW	5.96E-07	2.81E-02	4.06E-06	3.08E-02

<b>TOXIC AIR POLLUTANTS - STANDARD NO. 8</b>					
<b>Emission Point ID</b>	<b>Emission Rates (lbs/hr)</b>				
	<b>Toluene</b>	<b>Xylene</b>	<b>Acrylic Acid</b>	<b>Ethyl Acrylate</b>	<b>Triethylamine</b>
	<b>108-88-3</b>	<b>1330-20-7</b>	<b>79-10-7</b>	<b>140-88-5</b>	<b>121-44-8</b>
EP10	--	1.17E-01	--	--	--
Fan1	--	1.17E-01	--	--	--
Fan2	--	1.17E-01	--	--	--
Fan3	--	1.97E-01	--	--	--
Fan4	--	1.97E-01	--	--	--
Fan5	--	1.66E-02	6.00E-03	--	9.33E-03
Fan6	--	1.66E-02	6.00E-03	--	9.33E-03
Fan7	--	1.66E-02	6.00E-03	--	9.33E-03
Fan8	--	1.17E-01	--	--	2.00E-03
TK-020	9.00E-04	1.00E-03	9.45E-03	3.00E-03	7.00E-04
FugitiveSW	1.78E-02	7.44E-02	1.94E-01	6.53E-02	4.34E-02