



March 25, 2020

**CMRRRR# 7019 0700 0000 4966 9770**

State of Delaware – DNREC  
Division of Air Quality  
State Street Commons  
100 W. Water Street, Suite 6A  
Dover, DE 19904  
Attn: Program Administrator

RE: Delaware City Refining Company LLC  
Regulation 30 (Title V) Operating Permit  
Facility I.D. Number: 1000300016  
Permit Number: AQM-003/00016 – Parts 1, 2 & 3  
Title V Administrative Permit Amendment

Dear Program Administrator:

The purpose of this letter is to request an “Administrative Permit Amendment” to Title V Permit No. AQM-003/00016 – Parts 1, 2 & 3 (the “Permit”). The Permit governs operation of existing air emission sources located at the Delaware City Refinery in Delaware City, Delaware (the “Refinery”). The Refinery is requesting the Department to transfer the terms and conditions of the following Permits via the administrative permit amendment process

:

- APC-1990/0290-OPERATION (Amendment 13)(FE)
- APC-1990/0291-OPERATION (Amendment 6)(FE)
- APC-97/0503-CONSTRUCTION (Amendment 11)(NSPS)(FE)
- APC-82/0981-OPERATION (Amendment 13)(NSPS)(FE)

Enclosed are the updated Title V permit terms and statement of compliance status for the affected terms.

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this document are true, accurate, and complete.

Sincerely,

Jeffery Coleman  
Refinery Manager  
Delaware City Refining Company

cc: United States Environmental Protection Agency  
Region III  
Enforcement & Compliance Assurance (3ED21)  
1650 Arch Street  
Philadelphia, PA 19103  
***CMRRR# 7019 0700 0000 4966 9787***

Regulation No. 30 (Title V) State Operating Permit Program Air Quality Management Section						AQM-1001B (custom form)
Facility Name: Delaware City Refining Company			Operating Permit Number: AQM-003/00016 - Parts 1, 2, & 3			Reporting Period: as of 3/17/2020

Table 1 (Custom Form) - Compliance Status

Permit Ref	Emission Unit	Source Des.	Emission Point	Requirement Parameter	Limit	Compliance Method	Monitoring Requirement	Monitoring Frequency	Record Keeping	Compliance Status
<b>CONDITION 3 - SPECIFIC REQUIREMENTS</b>										
<b>PART ONE</b>										
<b>PART TWO</b>										
Condition 3 Table 1 (e)(4)(i)(A)	23	FCCU Wet Gas Scrubber	23-1	NOx	Comply with Facility-wide Emission Limit for NOx in Part 1, Condition 3, Table 1 i	NOx and (CO2 or O2) CEMS	CEMS monitoring of NOx emissions (monitor NOx, and diluent (CO2 or O2)) (40 CFR 60 App. B))	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (e)(4)(i)(B)	23	FCCU Wet Gas Scrubber	23-1	NOx	NOx emissions shall not exceed the following at all times: 1, 137.0 ppmvd @ 0 % oxygen on a 7-day rolling average basis; 2, 100.7 ppmvd @ 0 % oxygen on a 365-day rolling average basis.	NOx and (CO2 or O2) CEMS	CEMS monitoring of NOx emissions (monitor NOx, and diluent (CO2 or O2)) (40 CFR 75 App. B))	Continuous	1) CEMS data, calibration and audit results; 2) Rolling 12 month NOx emissions	Continuous
Condition 3 Table 1 (e)(4)(i)(B)	23	FCCU Wet Gas Scrubber	23-1	NOx	NOx emissions shall not exceed those achieved by proper operation of the SNCR as follows: 109.2 ppmvd @ 0% O2 on a 7-day rolling average basis; 79.6 ppmvd @ 0% O2 on a 365 day rolling average basis	NOx and (CO2 or O2) CEMS	CEMS monitoring of NOx emissions (monitor NOx, and diluent (CO2 or O2)) (40 CFR 75 App. B))	Continuous	1) CEMS data, calibration and audit results; 2) Rolling 12 month NOx emissions	Continuous
<b>PART THREE</b>										
Condition 3 Table 1 (a)(2)(i)(E)	80	Boiler 2	80-2	Multiple pollutants	Boiler 2 steam injection and IFGR must maintain 0.04 lb/MMBTU NOx on a 24 hour rolling average	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (a)(2)(i)(E)	80	Boilers 3 & 4	80-3,4	NOx	Boilers 3 and/or 4 shall not be operated unless the respective IFGR system is in use and operating properly whenever the IFGR system is available; The owner or operator shall operate the IFGR system for each boiler in accordance with manufacturer's recommendations. Each IFGR system shall be operated at all times that it is available.	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (a)(2)(i)(K)	80	Boilers 3 & 4	80-3,4	NOx	Except during periods of startup and shutdown, the steam injection and IFGR systems in Boiler 3 and 4 shall be working in a manner consistent with maintaining 0.13 lb/MMBTU NOx on a rolling 24-hr average.	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (a)(2)(i)(L)	80	Boilers 3 & 4	80-3,4	NOx	Boiler 3 and 4 shall not be operated unless the IFGR is in use and operating properly whenever the IFGR is available.	Maintain manufacturer's recommended steam injection and flue gas recirculation rates. Rates may be adjusted based on company experience with these controls consistent with minimizing emissions and good engineering practices	None specified	N/A	None specified	Continuous
Condition 3 Table 1 (a)(5)(i)(A)	80	Boilers 2, 3 & 4	80-2,3,4	NOx	Comply with Facility-wide Emission Limit for NOx in Part 1, Condition 3, Table 1 j	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (a)(5)(i)(C)(1) & (2)	80	Boilers 2, 3 & 4	80-2,3,4	NOx	0.04 lb/MMBTU for Boiler 80-2. NOx emissions shall not exceed those achieved by proper operation of the boilers Steam Injection and IFGR systems of 0.13 lb/MMBTU from each of for Boilers 3 & 4	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (a)(5)(i)(C)(3)	80	Boilers 2, 3 & 4	80-2,3,4	NOx	The lb/MMBTU emissions standards for Boilers 3 & 4 in Condition a.5.1.C.2 shall not apply during periods not to exceed 6 hours during each planned startup and shutdown. Instead, the boilers shall not exceed 0.2 lbs/MMBTU	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (a)(5)(i)(C)(4)	80	Boilers 2, 3 & 4	80-2,3,4	NOx	Condition a.5.1.C.2 shall not apply during periods when the Steam Injection and/or IFGR is unavailable due to maintenance, malfunction, steam emergency or other abnormal steam demand scenarios for a period not to exceed 7 days as defined in Condition a.2.1.L. Instead the boilers shall not exceed 0.2 lbs/MMBTU on a 24 hour average basis.	NOx and CO2/O2 CEMS	Operate, certify, and maintain CEMS per 40 CFR 60, App. B (Performance Specifications) and 40 CFR 60 App. F (QA/QC) for Boilers 1, 2, 3 and per 40 CFR 75, App. A (Performance Specifications) and 40 CFR 75 App. B (QA/QC) for Boiler 4	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (d)(4)(i)(A)	84	CCU1 and CCU2	84-1; 84-2	NOx	Comply with Facility-wide Emission Limit for NOx in Part 1, Condition 3, Table 1 j	NOx and CO2/O2 CEMS	Operate and maintain NOx and O2 CEMS	Continuous	CEMS data, calibration and audit results	Continuous

<b>Regulation No. 30</b> <b>(Title V) State Operating Permit Program</b> <b>Air Quality Management Section</b>		<b>AQM-1001B</b> <b>(custom form)</b>
Facility Name: Delaware City Refining Company      Operating Permit Number: AQM-003/00016 - Parts 1, 2, & 3      Reporting Period: as of 3/17/2020		

**Table 1 (Custom Form) - Compliance Status**

Permit Ref	Emission Unit	Source Des.	Emission Point	Requirement Parameter	Limit	Compliance Method	Monitoring Requirement	Monitoring Frequency	Record Keeping	Compliance Status
Condition 3 Table 1 (d)(4)(i)(C)(1) & (2)	84	CCU1 and CCU2	84-1; 84-2	NOx	The NOx emissions from each CCU shall not exceed the following: levels on an hourly basis: 1. 15 ppmvd @ 15% O2 on an hourly average when CCU fires natural gas without duct firing. 2. 18 ppmvd @ 15% O2 on an hourly average when CCU fires natural gas with duct firing.	NOx and CO2/O2 CEMS	Operate, certify, and maintain CO CEMS (40 CFR 60 App. B, Perf. Specs and App. F QA/QC)	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (d)(4)(i)(C)(3) & (4)	84	CCU1 and CCU2	84-1; 84-2	NOx	The NOx emissions from each CCU shall not exceed the following: 3 ppmvd @ 15% O2 on a 24 hour average when CCU fires natural gas without duct firing. 4. 3.6 ppmvd @ 15% O2 on a 24 hour average when CCU fires natural gas with duct firing.	NOx and CO2/O2 CEMS	Operate, certify, and maintain CO CEMS (40 CFR 60 App. B, Perf. Specs and App. F QA/QC)	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (d)(4)(i)(D)	84	CCU1 and CCU2	84-1; 84-2	NOx	Shall not exceed 390 ppmvd @ 15% O2 for a period of 24 hours after cold startup of the CCU	NOx and CO2/O2 CEMS	Operate, certify, and maintain CO CEMS (40 CFR 60 App. B, Perf. Specs and App. F QA/QC)	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (d)(4)(i)(E)	84	CCU1 and CCU2	84-1; 84-2	NOx	DCRC may submit to DNREC a petition requesting approval through this permit of an alternative to the NOx emission limitation found in Conditions d.4.1.C.3 and d.4.1.C.4	NOx and CO2/O2 CEMS	Operate, certify, and maintain CO CEMS (40 CFR 60 App. B, Perf. Specs and App. F QA/QC)	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (d)(5)(i)(B) and (C)	84	CCU1 and CCU2	84-1; 84-2	CO	For CCUs: (hourly basis) 0.0202 lb/mmBtu for CCUs w/o duct firing, 0.0261 lb/mmBtu with duct firing. Shall not apply for two hours following startup or for two hours preceding shutdown of the combustion turbines and/or duct burners.	CO CEMS	Operate, certify, and maintain CO CEMS (40 CFR 60 App. B, Perf. Specs and App. F QA/QC)	Continuous	CEMS data, calibration and audit results	Continuous
Condition 3 Table 1 (d)(13)(i)	86	CCU1 and CCU4	84-1; 84-4	NH3	With SCR in operation: Shall not exceed 5 ppmvd @ 15% O2; 34.3 TPY.	Monitoring/Testing	The Owner/Operator shall obtain weekly grab samples from a location downstream of of SCR using an approved method. Less frequent monitoring may be requested if 24 consecutive sampling events indicate the ammonia slip to be less than 2 ppmvd @ 15% O2. If	N/A	None	Continuous

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
	<p>A. Observation records shall be maintained and made available to the Department upon request.</p> <p>B. The date, time, location and corrective actions taken when the broken bag detection system indicates a potential failure.</p>	
<b>e. <u>Emission Unit No. 23: Fluid Catalytic Cracking Unit (FCCU); FCCU Reactor, Catalyst Regenerator, Start up Heaters 23-H-1 A and B, Carbon Monoxide Boiler, 23-H-3, and Wet Gas Scrubber System (WGS) (emission point 23-1);</u></b>		
<p>1. General Conditions:</p> <p>i. Operational Limitations: <i>[Reference: APC-82/0981(A12)]</i></p> <p>A. Except as allowed by operational limitation G, the Owner/Operator shall not burn any fuel gas in any fuel gas combustion device that contains hydrogen sulfide (H<sub>2</sub>S) in excess of 0.10 gr/dscf (162 ppm).</p> <p>B. Except as provided in Operating Limitation J, the Belco pre-scrubber, the amine-based Cansolv regenerative WGS, and the caustic polishing scrubber shall be operating properly at all times when the FCCU is operating.</p> <p>C. During planned start ups of the FCCU, the FCCU COB and WGS shall be operating prior to introducing feed into the riser reactor of the FCCU. In the event of a planned shutdown of the FCCU, the FCCU COB or the WGS, the Owner/Operator shall continue to</p>	<p>ii. Compliance Method: <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>A. Compliance with Operational Limitations A and B shall be based on monitoring/testing and recordkeeping requirements.</p> <p>B. Compliance with operational limitations C, and E shall be based on information available to the Department concerning the Owner/Operator's actions with respect to such events, and shall include the Department's review of all available facts and circumstances including, but not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.</p> <p>C. Compliance with the operational limitations F and G shall be demonstrated by monitoring/testing and record keeping requirements.</p> <p>D. Compliance with Operational Limitation (D) shall be based on either piping the uncondensed vapors to a firebox or incinerator. Alternately, the vapors may be compressed and added to the refinery fuel gas. <i>[Reference APC-82/0981(A9)]</i></p>	<p>v. Reporting:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and the following: <i>[Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00and APC-82/0981(A9)]</i></p> <p>A. Semiannual reports for the preceding six month period shall be submitted to the Department by January 31 and July 31 of each calendar year. The semiannual reports required by this section shall be increased in frequency to quarterly reports at the Department's discretion and shall become effective upon request of the Department after reasonable notice to the Owner/Operator. An electronic copy of all required reports shall be sent to the Department's compliance engineer assigned to the Refinery. The required reports shall contain the following information:</p> <ol style="list-style-type: none"> <li>1. <b>[RESERVED]</b></li> <li>2. <b>[RESERVED]</b></li> <li>3. A summary of all periods when the FCCU WGS has been bypassed.</li> </ol>

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>operate the FCCU COB and WGS until there is no feed entering the riser reactor of the FCCU prior to commencing shut down of the FCCU COB and the WGS. These planned start up and shut down provisions will not apply to the COB if the FCCU regenerator is operating in full burn mode.</p> <p>D. <b>[RESERVED]</b></p> <p>E. <b>[RESERVED]</b></p> <p>F. With the exception of operational Limitation (G), 23-H-1A/B and the FCCU COB (23-H-3) shall only combust desulfurized RFG. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2 dated 12/11/00]</i></p> <p>G. 23-H-3 may combust Alky Merox spent air from 24-C-10, Poly Merox spent air from 26-C-5 and process off gas from the regenerator. <i>[Reference: 40 CFR Part 63, Subpart CC]</i></p> <p>H. The Emission Standards in Condition 3 - Table 1.e.4 through e.9 below, with the exception of e.7, shall not apply during periods when the FCCU COB is combusting refinery fuel gas only and during periods of planned shut downs and planned start ups of the FCCU for a period of time not to exceed 80 hours for each planned shut down and each planned start up event. The planned shut down period shall begin 8 hours prior to</p>	<p>E. Compliance with Operational Limitations H shall be determined based on engineering calculations.</p> <p>iii. Monitoring/Testing:</p> <p>A. The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H<sub>2</sub>S in RFG before it is combusted in any fuel burning device. The monitoring instrument shall be located downstream of all process steps that increase the concentration of H<sub>2</sub>S in RFG prior to its being combusted in any fuel burning device. The H<sub>2</sub>S CEMS shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B" and comply with the Quality assurance requirements of 40 CFR 60, Appendix "F". The monitoring instrument shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B." The relative accuracy evaluation shall be conducted using Method 11 of 40 CFR 60, Appendix "A." <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>B. <b>[RESERVED]</b></p> <p>C. During process unit turnarounds, the Company shall monitor the pressure in each process or vessel until its internal pressure is 136kPa or less. <i>[Reference APC-82/0981(A9)]</i></p> <p>iv. Recordkeeping: <i>[Reference APC-82/0981(A9)]</i></p> <p>A. CEMS data, including O<sub>2</sub> concentration, calibration and audit results.</p> <p>B. The type of fuel combusted in the FCCU COB and 23-H-1 A and B and the daily FCCU COB</p>	<p>4. Actual hourly SO<sub>2</sub> emissions during periods when the FCCU WGS was bypassed.</p> <p>5. <b>[RESERVED]</b></p> <p>B. Quarterly CEMS reports for the preceding quarter shall be submitted to the Department for the CEMS required by this permit by January 31, April 30, July 31 and October 31 of each calendar year and shall include the following:</p> <p>1. Excess emissions and the nature and cause of the excess emissions, if known. The summary shall consist of emission averages, in the units of the applicable standard, for each averaging period during with the applicable standard was exceeded.</p> <p>2. The date and time identifying each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of system repairs or adjustments.</p> <p>3. When no excess emissions have occurred and the CEMS have not been inoperative, repaired, or adjusted, such information shall be included in the report.</p> <p>C. <b>[RESERVED]</b></p> <p>D. Quarterly SO<sub>2</sub> and CO CEMS reports for the preceding quarter shall be submitted</p>

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>the time when there is no feed entering the FCCU reaction section. The planned start up period shall begin when dry-out of the FCCU is commenced. The Emission Standards in Condition 3 - Table 1.e.2 through e.9 shall apply to each planned start up event after the expiration of the 80 hour period following commencement of FCCU dry-out. In lieu of the Emission Standards, the following emission limitations shall apply during planned start ups and shut downs of the FCCU:</p> <ol style="list-style-type: none"> <li>1. VOC – 9.5 lb/hr</li> <li>2. PM – 500 lbs/hr</li> <li>3. SO<sub>2</sub> – 165 lbs/hr</li> </ol> <p>For CO and inorganic HAP emissions during startup, shutdown, and hot standby, the following control device parameters will be used to comply with the inorganic HAP work practice standards specified in 40 CFR Parts 63.1565(a)(5):</p> <ol style="list-style-type: none"> <li>1. CO emissions from the catalyst regenerator vent or CO Boiler must not exceed 500 ppmv (dry basis); or</li> <li>2. Maintain the oxygen (O<sub>2</sub>) concentration in the exhaust</li> </ol>	<p>fuel usage.</p> <ol style="list-style-type: none"> <li>C. [RESERVED]</li> <li>D. [RESERVED]</li> <li>E. [RESERVED]</li> <li>F. [RESERVED]</li> <li>G. FCCU COB firebox temperature</li> <li>H. [RESERVED]</li> <li>I. [RESERVED]</li> <li>J. The rolling 12 month total emissions for each pollutant shall be calculated and recorded each month in an easily accessible format for each pollutant listed in Condition 3 - Table 1.e.</li> <li>K. Stack test results;</li> <li>L. The daily FCCU COB fuel usage;</li> <li>M. Detailed daily records of observations of visible emissions or the absence of visible emissions, or daily visible emissions observations, or other records identified in an approved alternative plan;</li> <li>N. Date of each FCCU process unit or vessel turnaround;</li> <li>O. Date and duration of seamless bypass operation;</li> <li>P. Internal pressure of the process unit or vessel immediately prior to venting to the atmosphere; and</li> <li>Q. VOC leak repair records required by 40 CFR 60.592 for existing components in light liquid and gaseous service and 40 CFR 63.654 for new components in light liquid and gaseous service.</li> <li>R. The depressurization venting of process units</li> </ol>	<p>to the Department by January 30, April 30, July 30 and October 30 of each calendar year and shall include the information required by 40 CFR 60.7(c) and (d).</p> <p>vi. Certification:  That required by Condition 3(c)(3) of this permit. [Reference: 7 <b>DE Admin. Code</b> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>gas from the catalyst regenerator at or above 1 volume percent (dry basis).</p> <p>I. In the event of an unplanned shutdown and/or bypass of the CO Boiler, operation of the FCCU shall be in accordance with Attachment "A" of <b>Permit: APC-82/0981-OPERATION (Amendment 9)(NSPS)</b> dated April 30, 2012.</p> <p>In the event of a planned shutdown of the CO Boiler or in the event of planned operation of the CO Boiler at firebox temperatures less than 1300 deg F, the Owner/Operator shall initiate promoted burn in the FCCU and control CO emissions in accordance with Condition 3, Table 1.e.5.i of <b>Permit: AQM-003/00016</b> prior to bypassing shutting down the CO Boiler and/or reducing firebox temperature below 1300 deg F in the CO Boiler.</p> <p>J. Except as provided in Operational Limitation M, this permit does not authorize emissions exceeding the limits set forth in Condition 3 - Table 1.e.2 through e.9 including emissions during periods of any</p>	<p>and vessels during turnaround shall be documented. [Reference <u>APC-82/0981(A9)</u>]</p>	



<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>unplanned shutdown of the FCCU, or any unplanned shutdown or bypass of the FCCU COB and SNCR, or the Belco prescrubber or WGS system. Instead, in the event of any unplanned shutdown of the FCCU or any unplanned shutdown or bypass of the FCCU COB and SNCR, or Belco prescrubber or the WGS, the Owner/Operator shall bear the burden of demonstrating to the Department's satisfaction that the Owner/Operator's continued operation of the FCCU should not subject the Owner/Operator to an enforcement action for noncompliance with emission limitations or operating standards included in this Permit or otherwise applicable to the facility under 7 DE Admin. Code 1100. Such demonstration must at a minimum be supported by sufficient documentation and emissions data including all relevant emissions calculations, formulas, and any assumptions made thereof. The Department's evaluation shall consider, the specific circumstances of the event, including without limitation 1) the cause of, and the Owner/Operator's response to, the unplanned shutdown; 2) whether the</p>		

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>Owner/Operator has taken all reasonable and prudent steps to abide by the emissions limit conditions; 3) whether the Owner/Operator has taken all reasonable and prudent steps to minimize the emissions associated with the plant; 4) the degree to which the Owner/Operator has reduced throughput to the FCCU, and the basis for such degree of reduction; 5) the estimated emissions associated with a complete shutdown of the FCCU; 6) whether Premcor had reviewed all prior similar causes of unplanned shutdowns and had taken all reasonable and prudent actions necessary to avoid future similar outages; and 7) the actual emissions during the period of the unplanned shutdown.</p> <p>K. During process unit turnarounds the Company shall provide for the following:</p> <ol style="list-style-type: none"> <li>1. Depressurization venting of the process unit or vessel to a vapor recovery system, flare or firebox.</li> <li>2. No emission of VOC from a process unit or vessel until its internal pressure is 136 kiloPascals (kPa) (19.7 psia) or less.</li> </ol>		

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>L. The Company shall evaluate the performance of the FCCU over a contiguous 30-month period to verify the improvements anticipated by the project (the equipment authorized to be constructed by APC-82/0981-CONSTRUCTION (A9)(NSPS) issued February 3, 2011). The Company shall, based on this evaluation, submit a proposal to incorporate revised and lower emission limits for PM and SO<sub>2</sub> emissions, to the Department for its approval and incorporation into an operating permit. The proposal shall be submitted to the Department within 90 days of the end of the evaluation period. (Condition complete).</p> <p>M. In the event of an unplanned shutdown and/or bypass of the CO Boiler, operation of the FCCU shall be in accordance with Attachment G of this permit.</p> <p>In the event of a planned shutdown of the CO Boiler or in the event of planned operation of the CO Boiler at firebox temperatures less than 1300 deg F, the Owner/Operator shall initiate promoted full burn in the FCCU and control CO emissions in accordance with Condition 3, Table 1.e.5.i of this permit prior to</p>		

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>bypassing/ shutting down the CO Boiler and/or reducing the firebox temperature below 1300 deg F in the CO Boiler. [Reference: <u>APC-82/0981(A12)</u>]</p> <p>N. SNCR Operation:</p> <ol style="list-style-type: none"> <li>1. Except as provided by Part 2 Condition 3 – Table 1.e.i.N.3 the FCCU COB shall <u>not</u> be operated while in partial burn mode unless the SNCR system is in use and operating properly whenever the SNCR system is available</li> <li>Compliance with emission limitations in Part 2, Condition 3 <ul style="list-style-type: none"> <li>- Table 1.e.4.i.<del>CB</del> shall constitute proper operation.</li> </ul> </li> <li>2. The owner or operator shall operate the SNCR system in accordance with manufacturer's recommendations and shall be operated at all times that it is available.</li> <li>3. The SNCR system is considered available except during periods of planned maintenance or malfunction.</li> <li>4. Malfunction means any sudden and unavoidable failure of air pollution control equipment or process to operate in a normal or usual manner, and that causes the source to exceed a technology based</li> </ol>		

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>emission limitation under the permit, due to unavoidable increases in emission attributable to the malfunction. An emergency or malfunction shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>2a. Particulate Matter:</p> <p>i. Emission Limitations:</p> <p>A. <b>[RESERVED]</b></p> <p>B. Particulate Matter (TSP/PM<sub>10</sub>) emissions from the WGS + system shall not exceed 1lb/1000 lb of coke burned and 203 TPY.  <i>[Reference: APC-82/0981(A12)]</i></p>	<p>iii. Compliance Method: <i>[Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. Compliance with Emission Limitation (B) is based on stack testing conducted in accordance with Condition 3 - Table 1.e.2a.iv.</p> <p>Monitoring/Testing: <i>[Reference: APC-81/0829(A9) and 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00]</i></p> <p>The Owner/Operator shall conduct performance testing as follows annually, unless the Department approves less frequent testing:</p> <p>A. <b>[RESERVED]</b></p> <p>B. TSP: in accordance with Reference Method 5B in Appendix "A" of 40 CFR Part 60, or other testing methodology approved by the Department.</p> <p>C. PM<sub>10</sub>: in accordance with Methods 5B/202, or other testing methodology approved by the Department. The Company may petition the Department to decrease the frequency of PM<sub>10</sub> performance tests based on the results</p>	<p>v. Reporting Requirement:  That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv. and "General Conditions" in Condition 3 - Table 1.e.1.v. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>vi. Certification Requirement:  That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping of any performance testing.</b>	<b>Reporting/Compliance Certification</b>
	<p>v. Record Keeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv.</p>	
<b>2b. Compliance Assurance Monitoring Plan for Particulate Matter</b>		
<p>i. Emission Standard</p> <p>A. For 23-H-3: The Owner/Operator shall not cause or allow the emission of particulate matter in excess of those specified in Table 4 of Regulation 1105 [Reference: <b>DE Admin. Code 1105 Section 5.2 dated 2/1/81</b>]</p> <p>B. For the FCCU WGS:</p> <p>1. TSP emissions shall not exceed 1 lb/1000 lb of coke burned and 203 TPY. [Reference <b>APC-82/0981(A9)</b>]</p> <p>ii. Operational Limitations:</p> <p>A. Indicators: [Reference: 40 CFR Part 64.6(c)(1)(i) dated 10/22/97]</p> <p>1. Scrubber pressure drop shall be used as the primary indicator</p> <p>2. Scrubber pump discharge shall be used as the secondary indicator</p> <p>B. Indicator Ranges [Reference: 40 CFR Part 64.6(c)(1)(i) dated 10/22/97]</p> <p>1. For the primary indicator: Minimum delta-P of 6 inches of water column for no more than 3 minutes in any 1 hour or more than 15 minutes in any 24-hour period.</p> <p>2. For the secondary indicator:</p>	<p>iii. Compliance Method</p> <p>Compliance shall be demonstrated by records of the required monitoring. [Reference: 7 <b>DE Admin. Code 1130 Sections 6.1.3.2.3 dated 12/11/00 and 6.2.1 dated 12/11/00</b>]</p> <p>iv. Monitoring [Reference: 40 CFR Part 64.3 and 64.4 dated 10/22/97]</p> <p>A. Data Representativeness [Reference: 40 CFR Part 64.6(c)(1)(iii) dated 10/22/97]</p> <p>1. For the primary indicator: pressure drop indicators located prior to the Agglomeration modules and prior to the Cyclone Droplet Separators.</p> <p>2. For the secondary indicator: pressure drop indicator shall be based on a pressure indicator located after the quench/pre-scrubber recirculation pumps.</p> <p>B. Verification of Operational Status for both indicators: Annual stack testing conducted in accordance with Condition 3 - Table 1.da.2a.iv.A. [Reference: 40 CFR Part 64.6(c)(1)(iii) dated 10/22/97]</p> <p>C. QA/QC Practices for both indicators shall be Annual stack testing conducted in accordance with Condition 3 - Table</p>	<p>v. Reporting</p> <p>A. Quality Improvement Plan (QIP)</p> <p>1. The Company shall submit a QIP in accordance with 40 CFR Part 64.8(b) if any stack tests reveal higher than permitted emission rates. [Reference: 40 CFR Part 64.7(e) dated 10/22/97]</p> <p>2. The Company shall submit a QIP in accordance with 40 CFR Part 64.8(b) if excursions exceed 5% of the unit's operating time for a reporting period. [Reference: 40 CFR Part 64.8(a) dated 10/22/97]</p> <p>B. The Company shall notify the Department at least 30 days prior to any reestablishment of excursion values. [Reference: 40 CFR Part 64.6(c)(2) dated 10/22/97]</p> <p>C. The report required by Condition 3(c)(2) of this permit shall also contain the following information: [Reference: 40 CFR Part 64.9(a)(2) dated 10/22/97]</p> <p>1. Summary information on the number, duration, and cause of excursions or exceedances;</p> <p>2. The corrective actions taken after an excursion or exceedance;</p> <p>3. Summary information on the number, duration, and cause of monitor</p>

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>Minimum discharge pressure satisfying the less stringent of: 115 psig or 95 % of the average discharge pressure recorded during performance testing as specified in <b>Permit: APC-81/0829 (A9)</b> for no more than 3 minutes in any 1-hour or more than 15 minutes in any 24-hour period.</p> <p>3. If either the differential pressure across the Agglo-Filtering Modules/Cyclolab Droplet Separators or the discharge pressure from the quench/prescrubber falls below the minimum levels established under Table 1 e.2b.ii.B.1 and e.2b.ii.B.2 for greater than 3 minutes in any hour or more than 15 minutes in any 24 hour period, the Company may perform a visual emission test in accordance with EPA Reference Method 9 to establish that the visible emissions do not exceed the opacity standard specified in Table 1 e.10.i at the reduced parameter level. In such a case, the new minimum value for the parameter in question shall be the average value recorded during the Method 9 test, and shall be used in conjunction with Table 1 e.2b.ii.B.1 to evaluate</p>	<p>1da.2a.iv.A. [Reference: 40 CFR Part 64.6(c)(1)(ii) dated 10/22/97]</p> <p>D. Frequency for both indicators shall be continuous. [Reference: 40 CFR Part 64.6(c)(1)(iii) dated 10/22/97]</p> <p>E. Data Collection Procedures for both indicators shall be collected and stored via the Refinery Process Historian. [Reference: 40 CFR Part 64.6(c)(1)(iii) dated 10/22/97]</p> <p>F. Averaging Period for both indicators shall be on a 1-minute basis. [Reference: 40 CFR Part 64.6(c)(1)(iii) dated 10/22/97]</p>	<p>downtime incidents; and</p> <p>4. If triggered, a description of the actions taken to implement the QIP.</p> <p>vi. Certification</p> <p>None in addition to that required by Condition 3(c)(3) of this permit. [Reference: 7 <b>DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.2 dated 12/11/2000</b>]</p>

Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
<p>compliance with Table 1 e.10.i.  <i>[Reference APC-82/0981(A11)]"</i></p> <p>4. During periods of full burn operation with the COB bypassed or the COB operating at a reduced level, if visible emissions are observed to be greater than 20% opacity, the Company shall perform a visual emission is in accordance with EPA Reference Method 9 to establish that the visible emissions do not exceed the opacity standard specified in Condition 3 – Table 1.e.10. <i>[Reference: APC-82/0981-O(A12)]</i></p> <p>C. Excursions <i>[Reference: 40 CFR Part 64.6(c)(2) dated 10/22/97]</i></p> <p>1. An excursion shall be defined as any deviation from the ranges specified in the Indicator Ranges (B)(1) or (B)(2).</p> <p>2. An excursion shall trigger an inspection, corrective action, and a reporting requirement. <i>[Reference: 40 CFR Part 64.7(d) dated 10/22/97]</i></p> <p>D. Monitoring/Measurement Approach <i>[Reference: 40 CFR Part 64.6(c)(1)(ii) dated 10/22/97]</i></p> <p>1. Pressure drop for the primary indicator shall be based on pressure transducer measurements obtained upstream of the Agglo-filtering modules and upstream of the Cyclolab Droplet Separators.</p>		



Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting /Compliance Certification
<p>2. Pressure drop for the secondary indicator shall be based on pressure transducer measurements obtained at the quench/pre-scrubber recirculation pumps discharge.</p> <p>E. At all times, the Company shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment. <i>[Reference: 40 CFR Part 64.7(b) dated 10/22/97]</i></p> <p>F. At all times, the Company shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are cause in part by poor maintenance or careless operation are not malfunctions. <i>[Reference: 40 CFR Part 64.7(c) dated 10/22/97]</i></p>		

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<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>3. Sulfur dioxide (SO<sub>2</sub>):</p> <p>i. Emission Standards:</p> <p>A. SO<sub>2</sub> emissions from the FCCU WGS+ shall not exceed 25 ppmvd @ 0% O<sub>2</sub> on a rolling 365 day average, 50 ppmvd @ 0% O<sub>2</sub> on a rolling 7 day average, and 352 TPY. [Reference: <u>APC-82/0981(A12)</u>]</p>	<p>ii. Compliance Method: [Reference 7 <i>DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/00</i>]</p> <p>A. Compliance with Emission Standard (A) shall be based on a continuous monitoring system and recordkeeping.</p> <p>iii. Monitoring/Testing: [Reference <i>APC-82/0981 (A9)</i>]</p> <p>A. The SO<sub>2</sub> emissions shall be continuous monitored by CEMS.</p> <p>B. [RESERVED]</p> <p>C. The CEMS for SO<sub>2</sub> and O<sub>2</sub> must be certified by satisfying the applicable Performance Specifications in 40 CFR, Part 60, Appendix "B". The QA/QC procedures for the SO<sub>2</sub> and O<sub>2</sub> CEMS shall be in accordance with the procedures described in 40 CFR 60, Appendix "F". For the purpose of determining the Relative Accuracy of the CEMS, the applicable standard shall be 25 ppmvd.</p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv.</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv. "General Conditions" in Condition 3 - Table 1.e.1.v. [Reference 7 <i>DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</i>]</p> <p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 <i>DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</i>]</p>

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>4. Nitrogen Oxides (NO<sub>x</sub>):</p> <p>i. Emission Standard:</p> <p>A. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO<sub>x</sub>)" in Part 1, Condition 3 - Table 1.j.</p> <p><b><u>B. NO<sub>x</sub> emissions shall not exceed the following at all times:</u></b></p> <p><b><u>1. 137.0 ppmvd @ 0 % oxygen on a 7-day rolling average basis.</u></b></p> <p><b><u>2. 100.7 ppmvd @ 0 % oxygen on a 365-day rolling average basis.</u></b></p> <p><b><u>[Reference: APC-82/0981(A13)]</u></b></p> <p><b><u>CB.-</u></b> NO<sub>x</sub> emissions shall not exceed <b><u>the following those achieved by proper operation of the SNCR as follows:</u></b></p> <p><b><u>1. 108.2 ppmvd @ 0 % oxygen on a 7-day rolling average basis.</u></b></p> <p><b><u>2. 79.6 ppmvd @ 0 % oxygen on a 365-day rolling average basis.</u></b></p> <p><b><u>[Reference: APC-82/0981(A12)]</u></b></p>	<p>ii. Compliance Method:</p> <p>A. Compliance with the Emission Standards shall be based on CEMS. [Reference: 7 DE Admin Code 1130 Section 6.1.3.1 dated 12/11/00]</p> <p>iii. Monitoring/Testing:</p> <p>A. NO<sub>x</sub> emissions shall be monitored by CEMS.</p> <p>B. The CEMS for NO<sub>x</sub> and O<sub>2</sub> must be certified by satisfying the applicable Performance Specifications in 40 CFR, Part 60, Appendix "B". The QA/QC procedures for the NO<sub>x</sub> and O<sub>2</sub> CEMS shall be demonstrated in accordance with 40 CFR, Part 60, Appendix "F". [Reference APC-82/0981(A9)]</p> <p>C. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO<sub>x</sub>)" in Part 1, Condition 3 - Table 1.j.</p> <p>iv. Recordkeeping:</p> <p>A. For Emission Standard A, comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO<sub>x</sub>)" in Condition 3 - Table 1.j. [Reference: 7 DE Admin Code 1130 Section 6.1.3.2 dated 12/11/00]</p>	<p>v. Reporting: [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. That required by Conditions 2(a), 2(b)(9), 2(b)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.v. and "General Conditions" in Condition 3 - Table 1.e.1.v.</p> <p>B. [RESERVED]</p> <p>vi. Certification:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>
<p>5. Carbon Monoxide (CO):</p> <p>i. Emission Standard: [Reference: APC-82/0981 (A12)]</p> <p>A. CO emissions from the FCCU WGS+ shall not exceed 500 ppmv dry as a 1-hour average, and 3,085 TPY.</p> <p>B. The Owner/Operator shall not cause or allow the emission of carbon monoxide from the FCCU unless it is burned at no less than 1300° F for at least 0.3</p>	<p>ii. Compliance Method: [Reference APC-82/0981 (A2)]</p> <p>A. Compliance with Emission Standard (A) shall be based on CEMS.</p> <p>B. Compliance with Emission Standard (B) is defined as maintaining a firebox temperature of no less than 1300° F as measured on a minute average basis.</p> <p>iii. Monitoring/Testing: [Reference APC-82/0981 (A9)]</p> <p>A. The Owner/Operator shall continuously</p>	<p>v. Reporting Requirement:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, table 1.e.1.iv. "General Conditions" in Condition 3 - Table 1.e.1.v. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification Requirement:</p>

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<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
seconds in the FCCU COB, or combusted in the FCCU regenerator when operating in full burn mode.	<p>monitor the temperature of the FCCU COB firebox.</p> <p>B. CO emissions shall be monitored by CEMS.</p> <p>C. The QA/QC procedures for the CO CEMS shall be in accordance with the procedures in Appendix "F" of 40 CFR Part 60.</p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple pollutants" in Condition 3 - Table 1.e.1.iv.</p>	That required by Condition 3(c)(3) of this permit. [Reference: 7 <i>DE Admin. Code</i> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]
<p>6. Volatile Organic Compounds (VOCs):</p> <p>i. Emission Standard: [Reference <i>APC-82/0981/491</i>]</p> <p>A. VOC emissions from the FCCU WGS+? shall not exceed 0.40 lb/mmcsf and 41.4 tons per year.</p> <p>B. The leak detection and repair requirements to control fugitive VOC emissions from the FCCU shall be in accordance with the requirements in 40 CFR 60, Subpart GGG for existing components in light liquid and gaseous service and in accordance with 40 CFR 60, Subpart CC for new components in light liquid and gaseous service. The leak detection and repair requirements to control fugitive emissions from the FCCU shall be in accordance with the Consent Decree for both new and existing components in light liquid and gaseous service.</p> <p>C. There shall be no emissions of uncondensed VOCs from the</p>	<p>ii. Compliance Method: [Reference <i>APC-82/0981/421</i>]</p> <p>A. Compliance with Emission Standard A shall be based on monitoring/testing and recordkeeping requirements</p> <p>B. Compliance with emission standard B for new components in light liquid and gaseous service shall be based on compliance with the standards in 40 CFR 63.162 through 63.177.</p> <p>C. Compliance with the standards in 40 CFR subpart GGG for existing components in light liquid gaseous service shall be based on the test methods and procedures in 40 CFR 60.592 and compliance with the requirements of 40 CFR Part 63 subpart CC shall be based on the standards in 40 CFR 63.648.</p> <p>D. [RESERVED]</p> <p>E. [RESERVED]</p> <p>iii. Monitoring/Testing: [Reference <i>APC-82/0981/491</i>]</p> <p>A. The Owner/Operator shall conduct performance testing every three years. Each</p>	<p>v. Reporting Requirement:</p> <p>A. That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3, table 1.e.1.iv. "General Conditions" in Condition 3 - Table 1.e.1.v. [Reference 7 <i>DE Admin. Code</i> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>B. Leak detection and repair reports shall be submitted as required by 40 CFR 60.592 for existing components in light liquid and gaseous service and 40 CFR 63.654 for new components in light liquid and gaseous service. [Reference <i>APC-82/0981/491</i>]</p> <p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 <i>DE Admin. Code</i> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
<p>condensers, hot wells or accumulators of any vacuum producing system.</p> <p>ii. <b>[RESERVED]</b></p>	<p>performance test conducted shall be performed in accordance with Reference Method 25A in Appendix "A" of 40 CFR Part 60. The Company may petition the Department to decrease the frequency of testing based on the results of any performance testing.</p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv.</p>	
<p>7. Sulfuric Acid (H<sub>2</sub>SO<sub>4</sub>):</p> <p>i. Emission Standard:</p> <p>A. H<sub>2</sub>SO<sub>4</sub>/SO<sub>3</sub> emissions from the FCCU WGS+ shall meet one of the following standards: <i>[Reference APC-82/0981(49)]</i></p> <p>1. H<sub>2</sub>SO<sub>4</sub> emissions shall be reduced by at least 40% across the wet gas scrubber system; or</p> <p>2. The outlet concentration of H<sub>2</sub>SO<sub>4</sub>/SO<sub>3</sub> from the stack shall be no greater than 10 ppmvd.</p>	<p>ii. Compliance Method: Compliance with the Emission Standard A shall be based on stack testing conducted in accordance with Condition 3 - Table 1.e.7.iii. monitoring/testing and recordkeeping requirements. <i>[Reference APC-82/0981(49)]</i></p> <p>iii. Monitoring/Testing: The Owner/Operator shall conduct annual performance tests, unless the Department approves less frequent testing, in accordance with Reference Method 8 in Appendix "A" of 40 CFR Part 60, or other testing methodology approved by the Department. <i>[Reference APC-82/0981(49)]</i></p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv.</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv "General Conditions" in Condition 3 - Table 1.e.1.v. <i>[Reference 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>
<p>8. Lead (Pb):</p> <p>i. Emission Standard: Pb emissions from the FCCU WGS+ shall</p>	<p>ii. Compliance Method: Compliance with the Emission Standard shall be based on the stack test based emission factor in</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit</p>

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
not exceed 4.37 E-04 pounds per thousand pounds of coke burned. [Reference: <u>APC-82/0981(A12)</u> ]	<p>terms of lb/Mlb coke burn rate. [Reference <u>APC-82/0981(A9)</u>]</p> <p>iii. Monitoring/Testing: The Owner/Operator shall conduct performance testing every three years based on Reference Method 12 in Appendix "A" of 40 CFR Part 60, unless the Department approves less frequent testing. [Reference <u>APC-82/0981(A9)</u>]</p> <p>iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv.</p>	<p>and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv and "General Conditions" in Condition 3 - Table 1.e.1.v. [Reference 7 <b>DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</b>]</p> <p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 <b>DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</b>]</p>
<p>9. Hazardous Air Pollutants (HAPs): [Reference: <u>APC-82/0981(A9)</u>]</p> <p>i. Emission Standard: A. The Owner/Operator shall comply with all the applicable requirements of 40 CFR Part 63, subpart UUU. B. Hydrogen Cyanide (HCN) emissions from the FCCU WGS shall not exceed 45 lb/hour. [Reference: <u>APC-82/0981(A11)</u>]</p> <p>ii. Operational Limitations: A. The Owner/Operator shall operate the FCCU at all times according to the procedures of the operation, maintenance, and monitoring (OMM) plan, which shall include the information specified in 40 CFR Part 63.1574(f).</p>	<p>iii. Compliance Method: A. Compliance with the Emission Standard A shall be based on monitoring/testing and recordkeeping requirements. [Reference: <u>Permit APC-82/0981(A9)</u>] B. Compliance with Emission Standard B shall be based on compliance with CO emission limit as specified in Condition 3 – Table 1.e.5.i.A. C. Alternatively, during startup, shutdown, malfunction and hot standby events, compliance may be demonstrated based on the work practice standard to maintain the Oxygen (O<sub>2</sub>) concentration in the exhaust gas from the regenerator overhead at or above 1 volume percent (dry basis).</p> <p>iii. Monitoring/Testing: [Reference <u>Permit APC-82/0981(A9)</u> and <u>A(11)</u>] A. CO emissions shall be monitored by CEMS.</p>	<p>v. Reporting Requirement: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and the following: [Reference 7 <b>DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</b>] A. The Owner/Operator shall submit semiannual reports by January 31 and July 31 of each calendar year for the preceding semiannual period in accordance with the requirements of §63.1575(c). The report must include each instance in which an emission limit, operating standard or work practice standard is not met, or if no deviations occurred the report must contain a statement that there were no deviations during the reporting period and that no continuous monitoring system was inoperative, out of control, repaired or adjusted. An electronic copy of the report</p>

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Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)	Condition 3 - Table 1 (Specific Requirements) Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping	Reporting/Compliance Certification
	<p>B. The QA/QC procedures for the CO CEMS shall be in accordance with the procedures in Appendix "F" of 40 CFR Part 60.</p> <p>C. The owner/Operator shall conduct a performance test for HCN within 180 days of issuance of the operating permit and commencement of full burn operation in accordance with Reference Method 320 in Appendix "A" of 40 CFR Part 63, Other Test Method (OTM)-029, or other testing methodology approved by the Department. The Company shall propose a surrogate stack CO concentration based on correlated stack test data for the Department's approval and incorporation in the permit for future compliance evaluation.</p> <p>D. Operate at all times according to the procedures in the OMMP. [Reference: 40 CFR 63.1564(a)(3) and (c)(2)].</p> <p>iv. Recordkeeping:</p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.e.1.iv.</p> <p>B. Maintain records to document conformance with the procedures in your OMMP. Follow all applicable recordkeeping requirements specified at 40 CFR Part 63.1576. [Reference: 40 CFR 63.1564(c)(3).]</p>	<p>shall be sent to the Department's engineer for the refinery. [Reference: 40 CFR 63, Subpart UUU, §63.1575(c)]</p> <p>B. Demonstrate compliance: As per the approved schedule. Demonstrate initial compliance by submitting your OMMP to your permitting authority as part of your Notification of Compliance Status. [Reference: 40 CFR 63.1564(b)(6)].</p> <p>C. Demonstrate continuous compliance by maintaining records to document conformance with the procedures in your OMMP [Reference: 40 CFR 63.1564(c)(2)].</p> <p>D. That required by Conditions (2)(a), 2(b)(9), 2(f)(3), and 3(c)(2) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification Requirement:</p> <p>A. That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin. Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>B. Prepare an operation, maintenance, and monitoring plan (OMMP) according to the requirements in 40 DFR 63.1574(f) and operate at all times according to the procedures in the plan. [Reference: 40 CFR 63.1564(a)(3)].</p>
<p>10. Visible Emissions:</p> <p>i. Emission Standard:</p> <p>A. The Owner/Operator shall not cause or</p>	<p>ii. Compliance Method:</p> <p>A. Compliance with Emission Standard A shall be based on Monitoring/Testing requirements.</p>	<p>v. Reporting Requirement:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this</p>

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<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping)</b> [Reference APC-82/0981(A9)]	<b>Reporting/Compliance Certification</b>
<p>allow the emission of visible air contaminants and/or smoke from any emission unit, the shade or appearance of which is greater than 20 percent opacity for an aggregate of more than 3 minutes in any 1 hour or more than 15 minutes in any 24 hour period. [Reference 7 <b>DE Admin. Code</b> 1114, Sections 2.1 and 2.3, dated 7/17/84, 40 CFR Part 60, Subpart J, §60.102(a)(2) and 7 <b>DE Admin. Code</b> 1120 Section 11 dated 11/27/85 and APC-82/0981(A9)].</p> <p>B. [RESERVED]</p>	<p>B. [RESERVED]</p> <p>iii. Monitoring/Testing: The Owner/Operator shall continuously monitor the pressure drop across the Agglo-filtering modules and Cyclolab Droplet Separators and the quench/pre-scrubber recirculation pump discharge pressure. The determination that the opacity from the FCCU WGS stack, when it is operating, satisfies the requirements of Emission Standard (A) shall be based upon the following parametric monitoring: A. The minimum ΔP across the Agglo-Filtering modules and Cyclolab Droplet Separators shall be 6 inches WC, evaluated on a one minute average basis; and B. A minimum discharge pressure, evaluated on a one minute average basis, from the quench/pre-scrubber recirculation pumps satisfying the less stringent of: 1. 115 psig, or 2. The discharge pressure equivalent to 95% of the average discharge pressure recorded during performance testing performed in accordance with the methods identified in Condition – Table 1.e. iv, provided that such performance testing also includes a demonstration of compliance with the visual emissions standard identified in Emission Standard (A) using EPA Method 9.</p> <p>C. Notwithstanding Monitoring/Testing</p>	<p>permit. [Reference 7 <b>DE Admin. Code</b> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vi. Certification Requirement: That required by Condition 3(c)(3) of this permit. [Reference: 7 <b>DE Admin. Code</b> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>



<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
	<p>Conditions (A) and (B), if either the differential pressure across the Agglo-Filtering Modules/Cyclolab Droplet Separators or the discharge pressure from the quench/prescrubber falls below the minimum levels established under Monitoring/Testing Conditions (A) and (B) for greater than 3 minutes in any hour or more than 15 minutes in any 24 hour period, the Owner/Operator may perform a visual emission test in accordance with EPA Reference Method 9 to establish that visible emissions do not exceed the opacity standard specified in Emission Standard (A) at the reduced parameter level. In such case, the new minimum value for the parameter in question shall be the average value recorded during the Method 9 test, and shall be used in conjunction with Condition 3 - Table 1.e.10.iii.A to evaluate compliance with Emission Standard (A). [Reference <u>APC-82/0981(A11)</u>].</p> <p>D. <b>[RESERVED]</b>            E. <b>[RESERVED]</b>            F. During periods of full burn operation with the COB bypassed or the COB operating at a reduced level, if visible emissions are observed to be greater than 20% opacity, the Company shall perform a visual emission test in accordance with EPA Reference Method 9 to establish that the visible emissions do not exceed the opacity standard specified in Emission Standard A.</p>	

<b>Condition 3 - Table 1 (Specific Requirements)</b>		
<b>Emission Limitation(s)/Standard(s) and/or Operational Limitation(s)/Standard(s)</b>	<b>Compliance Determination Methodology (Monitoring/Testing, QA/QC Procedures (as applicable) and Record Keeping</b>	<b>Reporting/Compliance Certification</b>
	<p>iv. Record keeping:  The following records shall be maintained in accordance with Condition 3(b):  Detailed daily records of observations of visible emissions or the absence of visible emissions, or daily visible emissions observations, or other records identified in an approved alternative plan. [Reference <b>APC-82/0981(A9)</b>]</p>	
<p>11. Ammonia (NH<sub>3</sub>)</p> <p>i. Emission Standard:  A. NH<sub>3</sub> emissions shall not exceed 8.5 lb/hour and 37 TPY. [Reference <b>APC-82/0891(A12)</b>]</p>	<p>ii. Compliance Method:  Compliance with the Emission Standard A shall be based on stack testing conducted in accordance with Condition 3 – Table 1.e.11.ii Monitoring/Testing and Recordkeeping requirements. [Reference: <b>APC-82/0981(A12)</b>]</p> <p>iii. Monitoring/Testing:  The Owner/Operator shall conduct annual performance tests, unless the Department approves less frequent testing, or other testing methodology approved by the Department. [Reference: <b>APC-82/0981(A12)</b>]</p> <p>iv. Recordkeeping:  Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 – Table 1.e.1.iv.</p>	<p>v. Reporting Requirement:  That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit and comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 – Table 1.e.1.iv "General Conditions" in Condition 3 – Table 1.e.1.v. [Reference 7 <b>DE Admin. Code</b> 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/001]</p> <p>vi. Certification Requirement:  That required by Condition 3(c)(3) of this permit. [Reference: 7 <b>DE Admin. Code</b> 1130 Sections 6.1.3.2.3 and 6.2.1 date 12/11/00]</p>
<p><b>f. <u>Emission Unit 24: Refinery Gas Plant (No emission points, i.e., This unit has only fugitive emissions that are covered under Section o under the heading "Facility Wide Requirements")</u></b></p>		
<p><b>ga. <u>Emission Unit No. 25: Reformers and Reformulated Gasoline 2000 Project (RFG 2K Project): Cracked Naphtha Hydrotreater (CNHT) Unit, Butamer Unit and Cooling Tower (Emission points 25-1 and 25-2)</u></b></p>		

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
a. Emission Unit 80: Boiler 80-2 (716 mmBtu/hr), Boiler 80-3 (618 mmBtu/hr), Boiler 80-4 (737 mmBtu/hr), (Emission Point 80-1)	<p>1. [RESERVED]</p> <p>2. Conditions Applicable to Multiple Pollutants:</p> <p>i. Operational Limitations: [Reference APC-90/0289(46), 90/0290(412) and APC-90/0291(45)]</p> <p>A. Only desulfurized refinery fuel gas (RFG) with a hydrogen sulfide content less than 0.1 grain/dscf on a 3 hour rolling average and/or natural gas may be fired in Boilers 80-2 and 80-4. Only desulfurized RFG, natural gas or syngas may be fired in Boiler 80-3.</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. [RESERVED]</p> <p>E. Except during periods of startup and shutdown, the burner steam injection and flue gas recirculation systems in Boiler 2 shall be working in a manner consistent with maintaining 0.04 lb/MMBtu NOx on a 24 hour rolling average.</p> <p>F. [RESERVED]</p> <p>G. [RESERVED]</p> <p>H. The Owner/Operator shall not cause or allow the combustion of any fuel in Boiler 80-4 at a rate that exceeds the boiler design capacity of 737 MMBtu/hr averaged over a rolling 365 day period. [Reference 7 DE Admin. Code 1102 Section 11.8, dated 06/01/1997]</p> <p>ii. Compliance Method: [Reference APC-90/0289(46), 90/0290(412) and APC-90/0291(45)]</p> <p>A. Compliance with Operational Limitation (A) shall be based on the Monitoring/Testing requirements.</p> <p>B. [RESERVED]</p> <p>C. Compliance with Operational Limitation (E) and (L) shall be based on compliance with Condition a.5.iii.A.</p> <p>D. Compliance with Operational Limitations (E) and (K) shall be based on maintaining the manufacturer's recommended steam injection and flue gas recirculation rates. The rates may be adjusted based on the experience of the Owner/Operator with these controls, consistent with minimizing emissions and good engineering practices.</p> <p>E. [RESERVED]</p> <p>F. Compliance with Operational Limitation (H) shall be based on Monitoring/Testing requirements.</p> <p>G. Compliance with Operational Limitation (A) shall be based on the H<sub>2</sub>S CEMS.</p> <p>H. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>iii. Monitoring/Testing: In addition to the requirements of</p>	<p>v. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. [RESERVED]</p> <p>B. [RESERVED]</p> <p>C. [RESERVED]</p> <p>D. [RESERVED]</p> <p>E. [RESERVED]</p> <p>F. [RESERVED]</p> <p>G. The Owner/Operator shall notify the Department in writing prior to making any material changes which cause these units to fall under the authority of Title IV of the Clean Air Act.</p> <p>H. [RESERVED]</p> <p>I. The Owner/Operator shall submit the following quarterly CEMS reports by January 30, April 30, July 30 and October 30 of each calendar year:</p> <p>1. The H<sub>2</sub>S CEMS reports shall include the information required by 40 CFR 60.7(c) and (d). [Reference 40 CFR 60.7(c) and (d)]</p> <p>J. Comply with "Combined Limits" in</p>

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>I. <b>[RESERVED]</b></p> <p>J. Comply with "Combined Limits" in Condition 3 – Table 1.f.</p> <p>K. Except during periods of startup and shutdown, the burner steam injection systems and the Induced Flue Gas Recirculation (IFGR) systems in Boiler 3 and 4 shall be working in a manner consistent with maintaining 0.13 lb/MMBtu NOx on a 24 hour rolling average. [Reference APC-90/0290(A10), APC-90/0291 (A3)]</p> <p>L. Boilers 3 and/or 4 shall not be operated unless the respective IFGR system is in use and operating properly whenever the IFGR system is available. Compliance with the emission limitations in Condition 3 – Table 1.a.5.i shall constitute proper operation.</p> <p>1. The Owner/Operator shall operate the IFGR system for each boiler in accordance with manufacturer's recommendations. Each IFGR system shall be operated at all times that it is available.</p> <p>2. The IFGR system is considered available except during periods of planned maintenance or malfunction as defined below <u>or during periods of steam emergency or other abnormal steam demand scenarios.</u></p> <p>(a) "Malfunction" means any</p>	<p>Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. <b>[RESERVED]</b></p> <p>B. <b>[RESERVED]</b></p> <p>C. <b>[RESERVED]</b></p> <p>D. <b>[RESERVED]</b></p> <p>E. <b>[RESERVED]</b></p> <p>F. <b>[RESERVED]</b></p> <p>G. The Owner/Operator shall continuously monitor and record the fuel flow rates for each boiler. [Reference 7 DE Admin Code 1130 Section 6.1.3.1.2, dated 12/11/2000]</p> <p>H. The Owner/Operator shall continuously monitor and record the concentration (dry basis) of H<sub>2</sub>S in RFG before it is combusted in any fuel burning device. The H<sub>2</sub>S monitor shall be located downstream of all process steps that increase the concentration of H<sub>2</sub>S in RFG prior to its being combusted in any fuel burning device. The monitoring instrument shall conform to the QA/QC requirements in 40 CFR 60, Appendix "F." The monitoring instrument shall conform to the requirements of Performance Specification 7 of 40 CFR 60, Appendix "B." The Relative accuracy evaluations shall be conducted using Method 11 of 40 CFR Part 60, Appendix "A." [Reference APC-90/0288(A5), APC-90/0289(A6), APC-90/0290(A5)]</p> <p>I. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p>	<p>Condition 3 - Table 1.f.</p> <p>K. <b>[RESERVED]</b></p> <p>[Reference APC-90/0288(A5), APC-90/0289 A6), APC-90/0290(A5), APC-90/0291 and APC-97/0503(A3)]</p> <p>vi. Certification Requirement:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>sudden and unavoidable failure of air pollution control equipment or process operate in a normal or usual manner, and that causes the source to exceed a technology based emission limitation under the permit, due to unavoidable increases in emissions attributable to the malfunction. An emergency or malfunction shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p><u>(b) Steam emergency / abnormal steam demand means an upset of the refinery steam header system resulting in the need for operating steam generating sources to significantly or rapidly adjust their loads to attempt to maintain or restore stable operations. Such periods shall not exceed 7 days in duration.</u></p> <p><u>(a)</u></p>	<p>J. The Owner/Operator shall maintain:</p> <ol style="list-style-type: none"> <li>1. A log of all operating hours of each boiler clearly showing the hours of operation with different fuel types and the amount of each fuel consumed.</li> <li>2. Rolling 24-hour heating values of the fuels combusted.</li> </ol> <p>iv. Recordkeeping:  In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: <i>(Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00)</i></p> <ol style="list-style-type: none"> <li>A. The Owner/Operator shall maintain all records necessary for determining compliance with this permit in accordance with Condition 3(b). <i>(Reference: APC-90/0288(A5), APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3))</i></li> <li>B. Comply with "Combined Limits" in Condition 3 - Table 1.f.</li> </ol>	
3. Particulate Emissions:		

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>i. Emission Standards: [Reference APC-90/0289(A6), 90/0290(A10) and APC-90/0291(A3)]</p> <p>A. <b>[RESERVED]</b></p> <p>B. PM<sub>10</sub> emissions including H<sub>2</sub>SO<sub>4</sub> shall not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 0.0104 lb/mmBtu heat input when firing natural gas or refinery fuel gas in Boilers 80-2 and 80-3.</li> <li>2. RESERVED.</li> <li>3. RESERVED.</li> <li>4. 27.8 TPY from Boiler 80-2.</li> <li>5. 92 TPY from Boiler 80-3.</li> <li>6. RESERVED.</li> </ol> <p>C. <b>[RESERVED]</b></p> <p>D. TSP emissions shall not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 0.0062 lb/mmBtu heat input when firing natural gas or refinery fuel gas in Boilers 80-2 and 80-3.</li> <li>2. RESERVED.</li> <li>3. RESERVED.</li> <li>4. 15.7 TPY from Boiler 80-2.</li> <li>5. 13.5 TPY from Boiler 80-3.</li> </ol> <p>E. <b>[RESERVED]</b></p> <p>F. <b>[RESERVED]</b></p> <p>G. PM<sub>10</sub> emissions from the CCUs, and Boilers 1, 2, and 3 combined shall not exceed 311.0 TPY (inclusive of 235.4 TPY H<sub>2</sub>SO<sub>4</sub> mist from Boilers 1,2 &amp; 3 and the CCUs).</p> <p>H. <b>[RESERVED]</b></p>	<p>iii. Compliance Method: [Reference APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>A. Compliance with PM<sub>10</sub> Emission Standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the boilers.</p> <p>B. Compliance with TSP Emission Standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the boilers.</p> <p>C. <b>[RESERVED]</b></p> <p>iv. Monitoring/Testing:</p> <p>In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. The Owner/Operator shall conduct the following stack tests annually, in accordance with Condition 3(b):</p> <ol style="list-style-type: none"> <li>1. EPA Reference Method 5 for TSP.</li> <li>2. EPA Reference Method 5B/202 for PM<sub>10</sub>, including H<sub>2</sub>SO<sub>4</sub>.</li> <li>3. The Owner/Operator may petition the Department to decrease the frequency of TSP or PM<sub>10</sub> performance tests based on the results of any performance testing.</li> </ol> <p>B. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iii (EU-80).</p> <p>V. Recordkeeping:</p>	<p>vi. Reporting:</p> <p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vii. Certification Requirement:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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**Condition 3 – Table 1 (Specific Requirements)**

<b>Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards</b>	<b>Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)</b>	<b>Reporting and Compliance Certification</b>
ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2. (EU-80).	In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</i> A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iv (EU-80).	

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>4. Sulfur Dioxide (SO<sub>2</sub>):</p> <p>i. Emission Standards:</p> <p>A. <b>[RESERVED]</b></p> <p>B. The Owner/Operator shall not cause or allow the emission of SO<sub>2</sub> in excess of the following limits:</p> <ol style="list-style-type: none"> <li>1. RESERVED</li> <li>2. Boiler 80-2: 71.2 TPY</li> <li>3. Boiler 80-3: 61.4 TPY</li> </ol> <p><i>[Reference: APC-90/0289/46], APC-90/0290/45]</i></p> <p>ii. Operational Limitations:</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2 (EU-80).</p>	<p>iii. Compliance Method: <i>[Reference: APC-90/0289/46], APC-90/0290/45]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. Compliance with the SO<sub>2</sub> Emission Standards for Boilers 80-2 and 80-3 shall be demonstrated by complying with the fuel gas monitored H<sub>2</sub>S content limitations as measured by the H<sub>2</sub>S Continuous Monitoring System (CMS) for Boilers 80-2 and 80-3.</p> <p>iv. Monitoring/Testing:</p> <p>In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. The Owner/Operator shall operate and maintain SO<sub>2</sub> CEMS for 80-3. <i>[Reference APC-90/0289/46], APC-90/0290/410]</i></p> <p>B. The SO<sub>2</sub> CEMS shall conform to Performance Specification 2 of 40 CFR 60, Appendix "B." The Quality Assurance/Quality Control (QA/QC) procedures for SO<sub>2</sub> CEMS for this boiler shall be established in accordance with 40 CFR 60, Appendix "F". <i>[Reference: APC-90/0289/46], APC-90/0290/410]</i></p> <p>C. <b>[RESERVED]</b></p> <p>D. <b>[RESERVED]</b></p> <p>E. <b>[RESERVED]</b></p> <p>v. Recordkeeping:</p> <p>In addition to the requirements of</p>	<p>vi. Reporting:</p> <p>None in addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. <b>[RESERVED]</b></p> <p>viii. Certification Requirement:</p> <p>In addition to the requirements of Condition 3(c)(3) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 – Table 1.a.2.v (EU-80).</p>



Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	<p>Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. The Owner/Operator shall maintain SO<sub>2</sub> CEMS data, calibration and audit results in accordance with Condition 3(b). [Reference APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p>	
<p>5. Nitrogen Oxides (NO<sub>x</sub>):</p> <p>i. Emission Standards:</p> <p>A. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO<sub>x</sub>)" in Part 1, Condition 3 - Table 1.j.</p> <p>B.</p> <p>1. [RESERVED]</p> <p>2. [RESERVED]</p> <p>3. [RESERVED]</p> <p>C. The NO<sub>x</sub> emissions shall not exceed the following levels based on a 24-hour rolling average basis:</p> <p>1. <del>0.20 lb/mmBTU for Boilers 80-3 and 80-4.</del></p> <p>21. 0.04 lb/mmBTU for Boiler 80-2.</p> <p>32. <del>NO<sub>x</sub> emissions shall not exceed those achieved by proper operation of the boilers Steam Injection and IFGR systems of 0.13 lb/mmBTU from each of for Boilers 3 &amp; 4.</del></p> <p>3. The lb/mmBTU emissions</p>	<p>iii. Compliance Method: [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>A. Compliance with the NO<sub>x</sub> Emission Standards for Boiler 80-2, 3, 4 and the CCUs and the "Facility-wide Emission Limit for Nitrogen Oxides (NO<sub>x</sub>)" shall be based on Continuous Emissions Monitoring System (CEMS) for NO<sub>x</sub> and O<sub>2</sub>.</p> <p>B. [RESERVED]</p> <p>iv. Monitoring/Testing:</p> <p>In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. The CEMS for Boilers 2, 3 and the CCUs shall conform to the applicable Performance Specifications in 40 CFR, Part 60, Appendix "B" and the QA/QC procedures for NO<sub>x</sub> CEMS shall be established in accordance with</p>	<p>vi. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 – Table 1.a.2.v (EU-80).</p> <p>vii. Certification Requirement:</p> <p>That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>standards for Boilers 3 &amp; 4 <u>in</u> Condition a.5.i.C.2 shall not apply during periods not to exceed 6 hours during each planned startup and shutdown. <u>Instead, the boilers shall not exceed 0.2 lbs/mmBtu. (The startup and shut down exemption is State enforceable only)</u></p> <p>4. Condition a.5.i.C.2 shall not apply during periods when the Steam Injection and/or IFGR is unavailable due to maintenance, malfunction, steam emergency or other abnormal steam demand scenarios for a period not to exceed 7 days as defined in Condition a.2.i.L. <u>Instead the boilers shall not exceed 0.2 lbs/mmBtu on a 24 hour average basis.</u></p> <p>D. [RESERVED] E. [RESERVED] F. [RESERVED]</p> <p>ii. Operational Limitation: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2 (EU-80).</p>	<p>40 CFR 60, Appendix "F". The CEMS for Boiler 4 shall conform to the applicable Performance Specifications in 40 CFR, Part 75, Appendix "A" and the QA/QC procedures for NOx CEMS in accordance with 40 CFR 75, Appendix "B". [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>B. [RESERVED] C. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.j. [Reference: 7 DE Admin. Code 1130 Section 6.1.3.1.2 dated 12/11/2000]</p> <p>v. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00] A. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NOx)" in Part 1, Condition 3 - Table 1.j. [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 dated 12/11/00] B. The Owner/Operator shall maintain NOx CEMS data, calibration and audit results in accordance with Condition 3(b). [Reference: APC-90/0288(A5), APC-90/0289(A6), APC-90/0290(A5)]</p>	
6. Carbon Monoxide (CO): i. Emission Standards: [Reference: APC-]	iii. Compliance Method: [Reference: APC-]	vi. Reporting:

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p><i>90/0289(A6), APC-90/0290(A10) and APC-90/0291(A31)</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. The Owner/Operator shall not cause or allow the emissions of CO in excess of 0.034 lb/mmBtu from Boilers 80-2 and 80-3 on a 24 hour rolling average basis.</p> <p>C. The Owner/Operator shall not cause or allow the emission of CO in excess of the following limits:</p> <ol style="list-style-type: none"> <li><b>[RESERVED]</b></li> <li>106.6 TPY for Boiler 80-2.</li> <li>92 TPY for Boiler 80-3.</li> </ol> <p>ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2 (EU-80).</p>	<p><i>90/0289(A6), APC-90/0290(A10) and APC-90/0291(A31)</i></p> <p>Compliance with the CO Emission Standards shall be demonstrated by the following methods:</p> <ol style="list-style-type: none"> <li><b>[RESERVED]</b></li> <li>Stack test based for Boiler 80-3.</li> <li>CEMS for Boiler 80-2.</li> </ol> <p>iv. Monitoring/Testing: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall: <i>[Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A31)]</i></p> <ol style="list-style-type: none"> <li>The Owner/Operator shall conduct an annual stack test for CO using EPA Reference Method 10 and in accordance with Condition 3(b) unless the Department approves less frequent testing.</li> <li>The Owner/Operator shall operate and maintain CO CEMS for Boiler 80-2.</li> <li>The CO CEMS shall conform to the applicable Performance Specifications in 40 CFR Part 60, Appendix "B." The QA/QC procedures for the CO CEMS shall be established in accordance with the procedures in 40 CFR Part 60, Appendix "F."</li> </ol> <p>v. Recordkeeping: In addition to the requirements of</p>	<p>That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	<p>Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. For Boiler 80-2, the Owner/Operator shall maintain CO CEMS data, calibration and audit results in accordance with Condition 3(b).</p> <p>B. For Boilers 80-3 and 80-4, the Owner/Operator shall comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iv (EU-80).</p>	
<p>7. Volatile Organic Compounds (VOC):</p> <p>i. Emission Standards: [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>A. [RESERVED]</p> <p>B. VOC emissions shall not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 0.0014 lb/mmBtu when firing natural gas or refinery fuel gas in Boilers 80-2 and 80-3.</li> <li>2. [RESERVED]</li> </ol> <p>C. The Owner/Operator shall not cause or allow the emission of VOC in excess of the following limits:</p> <ol style="list-style-type: none"> <li>1. RESERVED.</li> <li>2. 4.4 TPY from Boiler 80-2.</li> <li>3. 3.8 TPY from Boiler 80-3.</li> </ol> <p>ii. Operational Limitations: Comply with "Conditions Applicable to</p>	<p>iii. Compliance Method: Compliance with the VOC Emission Standards shall be demonstrated by firing only natural gas or by using stack test based emissions factors obtained while firing refinery fuel gas and refinery fuel gas flow rates for the boilers. [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>iv. Monitoring/Testing: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. The Owner/Operator shall conduct annually an EPA Reference Method 25 A stack test for VOC, in accordance with Condition 3(b). The Owner/Operator may petition the</p>	<p>vi. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>Multiple Pollutants" in Condition 3 - Table 1.a.2 (EU-80).</p>	<p>Department to decrease the frequency of VOC performance tests based on the results of any performance testing.</p> <p>B. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iii (EU-80).</p> <p>v. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iv (EU-80).</p>	
<p>8. Sulfuric Acid Mist (H<sub>2</sub>SO<sub>4</sub>):</p> <p>i. Emission Standards: [Reference: APC-90/0289/46], APC-90/0290/410 and APC-90/0291/43]</p> <p>A. [RESERVED]</p> <p>B. The Owner/Operator shall not cause or allow the emission of H<sub>2</sub>SO<sub>4</sub> in excess of the following limits:</p> <ol style="list-style-type: none"> <li>1. [RESERVED]</li> <li>2. 10.9 TPY for Boiler 80-2.</li> <li>3. 71.6 TPY for Boiler 80-3.</li> </ol> <p>C. [RESERVED]</p> <p>ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 -</p>	<p>iii. Compliance Method: [Reference: APC-90/0289/46], APC-90/0290/410 and APC-90/0291/43]</p> <p>A. Compliance shall be demonstrated using stack test based emissions factors and fuel flow rates for the boilers.</p> <p>B. [RESERVED]</p> <p>C. Compliance for the Boiler 80-3 shall be demonstrated by applying the stack test based SO<sub>2</sub> to H<sub>2</sub>SO<sub>4</sub> conversion factor to the CEMS-monitored SO<sub>2</sub> emissions.</p> <p>D. Compliance for Boiler 80-2 shall be demonstrated by applying the fuel gas</p>	<p>vi. Reporting: That required by Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

Condition 3 – Table 1 (Specific Requirements)		
Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
Table 1.a.2 (EU-80).	<p>monitored H<sub>2</sub>S content to the H<sub>2</sub>SO<sub>4</sub> conversion factor.</p> <p>iv. Monitoring/Testing:  In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall:</p> <p>A. The Owner/Operator shall conduct annually an EPA Reference Method 8 stack test for H<sub>2</sub>SO<sub>4</sub>, in accordance with Condition 3(b). The Owner/Operator may petition the Department to decrease the frequency of H<sub>2</sub>SO<sub>4</sub> performance tests based on the results of any performance testing.</p> <p>B. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iii (EU-80).</p> <p>v. Recordkeeping:  In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2.iv (EU-80).</p>	
<b>9. [RESERVED]</b>		
<b>10. Visible Emissions:</b>		
i. Emission Standard: The Owner/Operator shall not cause or	iii. Compliance Method: Compliance with the Visible Emission	vi. Compliance Method: A. Comply with "Conditions Applicable to

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<p>allow the emission of visible air contaminants from this unit in excess of 20% opacity for an aggregate of more than 3 minutes in any 1 hour period, or more than 15 minutes in any 24 hour period. [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.a.2 (EU-80).</p>	<p>Standard shall be demonstrated by a Continuous Opacity Monitoring System (COMS) for Boilers 80-2, 80-3 and 80-4 in the common stack. [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>iv. Monitoring/Testing: In addition to the requirements of Conditions 3(b)(1)(ii) of this permit, the Company shall: [Reference: APC-90/0289(A6), APC-90/0290(A10) and APC-90/0291(A3)]</p> <p>A. The Owner/Operator shall operate and maintain a COMS for Boilers 80-2, 80-3 and 80-4 in the common stack.</p> <p>B. The COMS shall be maintained in accordance with Performance Specification 1 in 40 CFR 60, Appendix "B."</p> <p>v. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</p> <p>A. The Owner/Operator shall maintain COMS data, calibration and audit results. [Reference: APC-90/0288(A5), APC-90/0289(A6), APC-90/0290(A5)]</p>	<p>Multiple Pollutants" in Condition 3 - Table 1.a.2.v (EU-80).</p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>11. Acid Rain Requirements for Boiler 80-4: <i>[Reference AQM-003/00016-CAIR]</i></p> <p>The following are the requirements the Owner/Operator must follow for purposes of the Acid Rain Program:</p>		
<p>i. <b>[RESERVED]</b></p> <p>A. <b>[RESERVED]</b></p> <p>B. <b>[RESERVED]</b></p> <p>ii. SO<sub>2</sub> Requirements:</p> <p>A. The Owner/Operator shall:</p> <ol style="list-style-type: none"> <li>1. Hold allowances for Boiler 4, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of SO<sub>2</sub> for the previous calendar year from the unit, and the requirement to hold each ton of allowances constitutes a separate requirement.</li> </ol> <p>2. <b>[RESERVED]</b></p> <p>B. <b>[RESERVED]</b></p> <p>C. <b>[RESERVED]</b></p> <p>D. The Owner/Operator's allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.</p> <p>E. The Owner/Operator shall not deduct allowances in order to comply with the requirements under paragraph (A) above prior to the calendar year for which the allowance was allocated.</p>	<p>v. Compliance Method:</p> <p>Compliance with the SO<sub>2</sub> requirements shall be based on Monitoring, Recordkeeping and Reporting Requirements.</p> <p>vi. Monitoring Requirements:</p> <p>A. The Owner/Operator and, to the extent applicable, designated representative shall comply with the monitoring requirements as provided in 40 CFR Part 75.</p> <p>B. The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for SO<sub>2</sub> under the Acid Rain Program.</p> <p>C. <b>[RESERVED]</b></p> <p>D. The Owner/Operator shall continuously monitor and record the concentration (dry basis) of TRS in RFG before it is combusted in Boiler 4. The TRS monitor shall be located downstream of all process steps which impact the composition of RFG prior to its being combusted in Boiler 4. The TRS monitor shall conform to the QA/QC</p>	<p>viii. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. The Owner/Operator's designated representative shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR Part 72 Subpart I and 40 CFR Part 75.</p> <p>ix. <b>[RESERVED]</b></p> <p>x. <b>[RESERVED]</b></p> <p>xi. Certification:</p> <p>In addition to the requirements of Condition 3(c)(3) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. Each document required to be submitted to the Department and the Administrator pursuant to the Acid Rain provisions of this permit shall be signed and certified by the Designated Representative and shall contain the</p>



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<p>F. [RESERVED]  G. [RESERVED]</p> <p>iii. [RESERVED]</p> <p>iv. Excess Emissions Requirements:</p> <p>A. The Owner/Operator's designated representative shall submit a proposed offset plan, as required under 40 CFR Part 77 if Boiler 4 has excess emissions in any calendar year.</p> <p>B. If Boiler 4 has excess emissions in any calendar year, the Owner/Operator shall:</p> <p>1. Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR Part 77; and</p> <p>2. Comply with the terms of an approved offset plan, as required by 40 CFR Part 77.</p>	<p>requirements recommended by the manufacturer's specifications and listed in the QA/QC Plan for the TRS monitor. The TRS monitor shall conform to Performance Specification 5 of 40 CFR Part 75, Appendix "B." Relative accuracy evaluations shall be conducted using Method 15 of 40 CFR Part 75, Appendix "A."</p> <p>E. [RESERVED]</p> <p>vii. Recordkeeping:  Unless otherwise provided, the Owner/Operator shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the Department or the Administrator.</p> <p>A. The certificate of representation for the designated representative for the source and each affected unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with 40 CFR 72.24; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such</p>	<p>following language:</p> <p><i>"I am authorized to make this submission on behalf of the owners and operators of the affected source or affected units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment."</i></p>

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	<p>documents are superseded because of the submission of a new certificate of representation changing the designated representative.</p> <p>B. All emissions monitoring information, in accordance with 40 CFR Part 75.</p> <p>C. Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program.</p> <p>D. Copies of all documents used to complete an Acid Rain permit application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.</p>	
<b>b. Emission Unit 82</b> Texaco Gasifiers 82-1a & 82-2a, Gas Coolers 82-1b & 82-2b (Fugitive Emissions, No Emission Points) These units have been permanently shut down.		
<b>1. [RESERVED]</b> i. Operational Limitations A. [RESERVED] B. [RESERVED]	ii. Compliance Method A. [RESERVED] B. [RESERVED] iii. Monitoring/Testing: [RESERVED] iv. Recordkeeping A. [RESERVED] B. [RESERVED] C. [RESERVED]	v. Reporting: [RESERVED] vi. Certification Requirement: [RESERVED]
<b>2. [RESERVED]</b>		

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>[RESERVED]</p> <p>ii. Operational Limitations: [RESERVED]</p>	<p>[RESERVED]</p> <p>iv. Monitoring/Testing: [RESERVED]</p> <p>v. Recordkeeping: A. [RESERVED]</p>	<p>A. [RESERVED]</p> <p>vii. Certification: [RESERVED]</p>
<b>d. Emission Unit 84: Combined Cycle Units 84-1 and 84-2 (Emission Points 84-1 and 84-2)</b>		
<p>1. Conditions Applicable to Multiple Pollutants:</p> <p>i. Emission Standards: [Reference APC- 97/0503/4107]</p> <p>A. The Owner/Operator shall not cause or allow emissions from the CCUs that exceed the Standards of Performance for New Stationary Gas Turbines specified in 40 CFR 60 Subpart GG. [Reference 40 CFR 60 Subpart GG dated 09/10/1979 for SO<sub>2</sub> and dated 10/17/2000 for NO<sub>x</sub> and 7 DE Admin. Code 1120 Section 10 dated 11/27/1985]</p> <p>B. The Owner/Operator shall not cause or allow emissions from the duct burners that exceed the Standards of Performance for Electric Utility Steam Generating Units specified in 40 CFR 60 Subpart Db. [Reference 40 CFR 60 Subpart Db dated 10/17/2000 for SO<sub>2</sub> and particulate matter and dated 08/14/2001 for NO<sub>x</sub> and 7 DE Admin. Code 1120 Section 26 dated 12/07/1988]</p> <p>C. The Department reserves the right to establish emission limitations and/or</p>	<p>iii. Compliance Method: [Reference APC- 97/0503/4107]</p> <p>A. Compliance with the Emission Standards (A) and (B) (NSPS limits) shall be based on the type of fuel combusted and/or compliance with the more stringent emission limits specified for individual pollutants for these units.</p> <p>B. Compliance with the Operational Limitations (A) and (C) (pertaining to type and amount of fuel burned) shall be based on record keeping requirements.</p> <p>C. [RESERVED]</p> <p>D. [RESERVED]</p> <p>E. [RESERVED]</p> <p>F. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>G. Compliance with Operational Limitation I shall be based on compliance with Table 1.d.4.i.C.</p>	<p>i. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. [RESERVED]</p> <p>B. The Owner/Operator shall notify the Department in writing prior to making any material changes which cause these units to fall under the Authority of Title IV of the Clean Air Act. [Reference APC- 97/0503 (43)]</p> <p>C. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>D. Except in circumstances when the owner/operator receives approval for a petition submitted pursuant to Condition d.4.i.C., the owner/operator shall notify the Department within thirty (30) days of determination that an SCR system</p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>additional controls for specific compounds based on the results of the stack tests required under the Monitoring/Testing requirements.</p> <p>D. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>ii. Operational Limitations: <i>[Reference 49C: 97/0503(A10)]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. <b>[RESERVED]</b></p> <p>C. <b>[RESERVED]</b></p> <p>D. <b>[RESERVED]</b></p> <p>E. <b>[RESERVED]</b></p> <p>F. <b>[RESERVED]</b></p> <p>G. <b>[RESERVED]</b></p> <p>H. Only NG may be fired in the combustion chambers of the CCUs. Only NG or desulfurized RFG with a hydrogen sulfide content less than 0.1 grain/dscf on a 3-hour rolling average may be fired in the DBs.</p> <p>I. <b>Except as provided in Conditions d.4.i.C.3, d.4.i.C.4 and d.4.i.D.1.f.</b> The CCUs shall not be operated unless the LNBs and SCR systems (when SCR is available) are operating properly. Compliance with the emissions limitation in d.493.i.C shall constitute proper operation.</p> <p>1. The owner or operator shall operate the LNBs and SCR system for each</p>	<p>H. Compliance with Operational Limitation H with respect to the H2S concentration in RFG shall be based on a continuous monitoring device.</p> <p>I. Compliance with Operational Limitations I and H shall be based on record keeping requirements and on information available to the Department, which may include, but is not limited to, monitoring results, opacity and process operating data.</p> <p>iv. Monitoring/Testing: <i>[Reference 97/0503(A10)]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. <b>[RESERVED]</b></p> <p>C. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p> <p>D. Department representatives shall be given the opportunity to witness all stack test emission testing and monitor certification testing including any test audits conducted on the monitors as part of the Quality Assurance Program.</p> <p>E. The CEMS required by Compliance Method H shall be installed for continuously monitoring and recording the concentration (dry basis) of H2S in RFG before it is combusted in any fuel burning device. This instrument shall be located downstream of all process steps which impact the composition of RFG prior to its being combusted in</p>	<p>governed by this permit will be unavailable for a period exceeding 2 consecutive days. Such notifications shall include:</p> <ol style="list-style-type: none"> <li>1. Reason for unavailability <b>of SCR.</b></li> <li>2. Anticipated duration <b>of unavailability of SCR.</b></li> <li>3. Steps being taken to minimize duration of unavailability and magnitude of emissions during this period.</li> <li>4. Alternatives considered.</li> <li>5. Anticipated effect of unavailability <b>of SCR</b> on compliance with NO<sub>x</sub> cap.</li> </ol> <p>ii. Certification Requirement:</p> <p>That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>CCU in accordance with manufacturer's recommendations. Each SCR system shall be operated at all times that it is available, excluding periods of startup, shutdown, or malfunction.</p> <p>2. The SCR system is considered available except during periods of planned maintenance or malfunction.</p> <p>3. "Malfunction" means any sudden and unavoidable failure of air pollution control equipment or process equipment or of a process to operate in a normal or usual manner, and that causes the source to exceed a technology based emission limitation under the permit, due to unavoidable increases in emissions attributable to the malfunction. An emergency or malfunction shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.</p> <p>1. At all times, including periods of startup, shutdown and malfunction, the owner or operator shall, to the extent practicable, maintain and operate the facility including associated</p>	<p>any fuel burning device. The instruments shall conform to the QA/QC requirements of Appendix "F" in 40 CFR Part 60</p> <p>v. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. The following records shall be maintained in accordance with Condition 3(b): <i>[Reference APC-9210503(410)]</i></p> <ol style="list-style-type: none"> <li>1. Record of all operating hours of each CCU and DB.</li> <li>2. <b>[RESERVED]</b></li> <li>3. <b>[RESERVED]</b></li> <li>4. <b>[RESERVED]</b></li> <li>5. <b>[RESERVED]</b></li> <li>6. <b>[RESERVED]</b></li> <li>7. <b>[RESERVED]</b></li> <li>8. Rolling 24-hour heating value of the RFG combusted.</li> <li>9. All 3-hour averages of the H2S content in RFG as measured by the H2S analyzer.</li> <li>10. CEMS data including calibration log and results of all Cylinder Gas Audits and all Relative Accuracy Test Audits.</li> </ol>	

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions.</p> <p>K. All structural and mechanical components shall be maintained in proper operating condition.</p> <p>L. <b>[RESERVED]</b></p>	<p>C. Comply with "Combined Limits" in Condition 3 - Table 1.f.</p>	
<p>2. Particulate Emissions:</p> <p>i. Emission Standards: <i>[Reference APC: 97/0503/4101]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. PM<sub>10</sub> emissions including H<sub>2</sub>SO<sub>4</sub> shall not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 0.0074 lb/mmBtu when firing natural gas in CCUs.</li> <li>2. 0.0099 lb/mmBtu when firing natural gas in the CCUs and refinery fuel gas in the duct burners.</li> <li>3. <b>[RESERVED]</b></li> <li>4. <b>[RESERVED]</b></li> <li>5. 67 tons per year.</li> </ol> <p>C. <b>[RESERVED]</b></p> <p>D. TSP emissions shall not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 0.0115 lb/mmBtu when firing natural gas in CCUs.</li> <li>2. 0.0112 lb/mmBtu when firing natural gas in the CCUs and refinery fuel gas in the duct</li> </ol>	<p>iii. Compliance Method: <i>[Reference APC: 97/0503/4101]</i></p> <p>A. Compliance with PM<sub>10</sub> Emission Standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the CCUs and duct burners.</p> <p>B. Compliance with TSP Emission Standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the CCUs and duct burners.</p> <p>C. The Owner/Operator may use stack test results obtained while the CCUs are operating with duct burners to demonstrate compliance with the respective non-duct burner emission standards for PM<sub>10</sub> and TSP by subtracting the heat input of the duct burners.</p> <p>iv. Monitoring/Testing:</p>	<p>vi. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.i.vi. (EU-84).</p> <p>vii. Certification Requirement:</p> <p>That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>burners.</p> <p>3. [RESERVED]</p> <p>4. [RESERVED]</p> <p>5. 47.8 tons per year.</p> <p>E. [RESERVED]</p> <p>ii. Operational Limitation: Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1. (EU-84).</p>	<p>A. The Owner/Operator shall conduct the following stack tests annually, in accordance with Condition 3(b):</p> <ol style="list-style-type: none"> <li>1. EPA Reference Method 5 for TSP.</li> <li>2. EPA Reference Method 5B/202 for PM<sub>10</sub>, including H<sub>2</sub>SO<sub>4</sub>.</li> <li>3. If the Owner/Operator conducts stack testing with the duct burners in operation, the Owner/Operator shall calculate the emission rate for operation without duct burner operation by subtracting the heat input contributed by the duct burners.</li> <li>4. The Owner/Operator may petition the Department to decrease the frequency of TSP or PM<sub>10</sub> performance tests based on the results of any performance testing.</li> </ol> <p>B. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.iv (EU-84).</p> <p>v. Recordkeeping: In addition to the requirements of Conditions 3(b)(1)(ii) and 3(b)(2) of this permit, the Company shall: <i>(Reference: 7 DE Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00)</i></p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84).</p>	

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
3. [RESERVED]		
4. Nitrogen Oxides (NO <sub>x</sub> ):		
i. Emission Standards [Reference APC: 97/0503/4107]		
A. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO <sub>x</sub> )" in Part 1, Condition 3 - Table 1.j.		
B. [RESERVED]		
C. The NO <sub>x</sub> emissions from each CCU shall not exceed the following: <u>levels on an hourly basis:</u>		
1. <u>15 ppmvd @ 15% O<sub>2</sub> on an hourly average when CCU fires natural gas without duct firing.</u>		
2. <u>18 ppmvd @ 15% O<sub>2</sub> on an hourly average when CCU fires natural gas with duct firing.</u>		
3. <u>3 ppmvd @ 15% O<sub>2</sub> on a 24 hour average when CCU fires natural gas without duct firing.</u>		
4. <u>3.6 ppmvd @ 15% O<sub>2</sub> on a 24 hour average when CCU fires natural gas with duct firing.</u>		
1. <u>With the SCR in Operation:</u>		
(a) <u>3 ppmvd @ 15% O<sub>2</sub> when CCU burns NG without duct firing.</u>		
(b) <u>3.6 ppmvd @ 15% O<sub>2</sub> when CCU burns NG with duct firing.</u>		
iii. Compliance Method: [Reference APC: 97/0503/4107]		
A. Compliance with the "Facility-wide Emission Limit for Nitrogen Oxides (NO <sub>x</sub> )" and with the NO <sub>x</sub> Emission Standards shall be based on Continuous Emissions Monitoring System (CEMS) for NO <sub>x</sub> and O <sub>2</sub> .		
B. Compliance with the Operational Limitations shall be based on Recordkeeping requirements.		
iv. Monitoring/Testing: [Reference APC: 97/0503/4107]		
A. The Owner/Operator shall operate and maintain NO <sub>x</sub> and O <sub>2</sub> CEMS for the CCUs.		
B. The Quality Assurance/Quality Control (QA/QC) procedures for NO <sub>x</sub> CEMS shall be established in accordance with 40 CFR Part 60, Appendix "F".		
C. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO <sub>x</sub> )" Part 1, in Condition 3 - Table 1.i. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.1 dated 12/11/00]		
v. Recordkeeping:		
In addition to the requirements of Conditions 3(b)(1)(i) and 3(b)(2) of this permit, the Company shall: [Reference: 7 DE		

vi. Reporting:  
In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]

A. [RESERVED]

vii. Certification Requirement:  
In addition to the requirements of Condition 3(c)(3) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]

A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 – Table 1.a.2.v (EU-80).

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p><u>2. Without the SCR in Operation:</u>  <del>(a) 15 ppmvd @ 15% O<sub>2</sub> when CCU burns NG without duct firing;</del>  <del>(b) 18 ppmvd @ 15% O<sub>2</sub> when CCU burns NG with duct firing;</del></p> <p>3. [RESERVED]  4. [RESERVED]</p> <p><u>D. During startups and shutdowns of the combustion turbines and/or duct burners the following exception shall apply:</u></p> <p><u>1.</u> The NO<sub>x</sub> emission rates from the CCUS shall not exceed 390 ppmvd @ 15% O<sub>2</sub> for a period of 24 hours after cold startup of the CCU.</p> <p><u>E. DCRC may submit to DNR/EC a petition requesting approval through this permit of an alternative to the NO<sub>x</sub> emission limitation found in Conditions d.4.i.C.3 and d.4.i.C.4 subject to the following limitations:</u></p> <p><u>1.</u> DCRC shall electronically submit the petition to the Department within three business days of the facility's determination to operate under a temporary alternative limit pursuant to the provisions of this Condition d.4.i.E. The petition shall include an explanation of both the basis for and</p>	<p><i>Admin Code 1130 Section 6.1.3.1.2 and 6.2.1 dated 12/11/00</i></p> <p>A. The Owner/Operator shall keep NO<sub>x</sub> CEMS data calibration and audit results in accordance with Condition 3(b). <i>(Reference APC-97/0503 (410))</i></p> <p>B. Comply with "Facility-wide Emission Limit for Nitrogen Oxides (NO<sub>x</sub>)" in Part 1, Condition 3 - Table 1.i, <i>(Reference: 7 DE Admin Code 1130 Sections 6.1.3.2 dated 12/11/00)</i></p>	<div style="border: 1px solid black; padding: 2px; text-align: center;">Formatted</div> <div style="border: 1px solid black; padding: 2px; text-align: center;">Formatted</div>

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>duration of the proposed alternative NOx emission limit, as well as such back-up information as may be necessary to justify the petition.</p> <p>2. The proposed alternative limit shall not exceed 15 ppm on NG without duct firing and 18 ppm on NG with duct firing both at 15% O<sub>2</sub> on an hourly rolling average basis as identified in Condition d.4.i.C.1 and d.4.i.C.2.</p> <p>3. If DNREC approves the petition, the alternative limit proposed by DCRC under d.4.i.E shall apply no earlier than 3 business days prior to receipt of the petition containing the information necessary for DNREC to make the determination set out in d.4.i.E.1 and shall extend through the duration authorized by DNREC.</p> <p>4. Approval by the Department of the petition in whole or in part will not be granted unless the company has demonstrated in detail why a temporarily increased limit, subject to d.4.i.E.2 will result in the emission of less NOx than alternative measures the refinery may otherwise take under its existing permits; and DNREC determines the temporary increase is appropriate, in its discretion, based on the entirety of</p>		

**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p><b>E-F.</b> <u>Operation in accordance with Conditions d.4.i.C.3 and d.4.i.C.4 shall constitute compliance with Conditions d.1.ii.I, d.1.ii.J and d.1.ii.K.</u></p> <p><b>F-G.</b> <b>[RESERVED]</b></p> <p><b>G-H.</b> <b>[RESERVED]</b></p> <p>ii. Operational Limitations:</p> <p>A. <b>[RESERVED]</b></p> <p>B. <b>[RESERVED]</b></p> <p>5. Carbon Monoxide (CO):</p> <p>i. Emission Limitations: <i>[Reference APC- 97/0503/4101]</i></p> <p>A. <b>[RESERVED]</b></p> <p>B. CO emissions on an hourly basis shall not exceed the following limits:</p> <ol style="list-style-type: none"> <li>1. 0.0202 lb/mmBtu when firing natural gas in CCUs.</li> <li>2. 0.0261 lb/mmBtu when firing NG in the CCUs and refinery fuel gas in the duct burners.</li> <li>3. <b>[RESERVED]</b></li> <li>4. <b>[RESERVED]</b></li> <li>5. 110.9 tons per year</li> </ol> <p><b>C.</b> <u>During startups and shutdowns of the combustion turbines and/or duct burners the following exception shall apply:</u></p> <p><b>G-I.</b> <u>CO emissions concentration limitations specified in Condition d.5.i.B shall not apply for two hours</u></p>		
<p>iii. Compliance Method: <i>[Reference APC- 97/0503/4101]</i></p> <p>Compliance with the CO Emission Standards shall be based on the following methods:</p> <ol style="list-style-type: none"> <li>A. CEMS for the CCUs.</li> <li>B. <b>[RESERVED]</b></li> <li>C. <b>[RESERVED]</b></li> </ol> <p>iv. Monitoring/Testing: <i>[Reference APC- 97/0503/4101]</i></p> <ol style="list-style-type: none"> <li>A. The Owner/Operator shall operate and maintain CO CEMS for the CCUs.</li> <li>B. <b>[RESERVED]</b></li> <li>C. The CO CEMS shall satisfy the applicable Performance Specifications in 40 CFR part 60, Appendix "B." The QA/QC procedures for the CO CEMS shall be established in accordance with the procedures in 40 CFR Part 60 Appendix "F."</li> </ol>		<p>vi. Reporting:</p> <p>In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <ol style="list-style-type: none"> <li>A. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.vi (EU-84).</li> </ol> <p>vii. Certification Requirement:</p> <p>That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p><del>following startup or for two hours preceding shutdown of the combustion turbines and/or duct burners. The above limits shall not apply during periods of startup and shutdown of the combustion turbines and/or duct burners. Such periods shall not exceed 2 hours in duration.</del> The Owner/Operator shall follow good air pollution control practices to minimize CO emissions during these periods.</p> <p>ii. Operational Limitations: [Reference APC-97/0503/4107]</p> <p>Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1 (EU-84).</p>	<p>v. Recordkeeping: The Owner/Operator shall maintain CO CEMS data, calibration and audit results in accordance with Condition 3(b).</p>	
<p>6. Volatile Organic Compounds (VOC):</p> <p>i. Emission Standards: [Reference APC-97/0503/4107]</p> <p>A. [RESERVED]</p> <p>B. VOC as measured by the average of the three stack test runs pursuant to the stack tests:</p> <ol style="list-style-type: none"> <li>0.0021 lb/mmBtu when firing natural gas in CCUs,</li> <li>0.0046 lb/mmBtu when firing natural gas in the CCUs and refinery fuel gas in the duct burners.</li> <li>[RESERVED]</li> <li>[RESERVED]</li> </ol>	<p>iii. Compliance Method: [Reference APC-97/0503/4107]</p> <p>A. Compliance with the VOC Emission standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the CCUs and duct burners.</p> <p>B. The Owner/Operator may use stack test results obtained while the CCUs are operating with duct burners to demonstrate compliance with the respective non-duct burner emission standards for VOC by subtracting the heat input of the duct burners.</p>	<p>vi. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1.vi (EU-84).</p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p><u>5.</u> 19.8 tons per year.</p> <p>ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1 (EU-84).</p>	<p>iv. Monitoring/Testing: A. The Owner/Operator shall conduct annually an EPA Reference Method 25A stack test for VOC, in accordance with Condition 3(b). The Owner/Operator may petition the Department to decrease the frequency of VOC performance tests based on the results of any performance testing. B. If the Owner/Operator conducts stack testing with the duct burners in operation, the Owner/Operator shall calculate the emission rate for operation without duct burner operation by subtracting the heat input contributed by the duct burners. C. Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.iv (EU-84).</p> <p>v. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84).</p>	
<b>7. [RESERVED]</b>		
<b>8. [RESERVED]</b>		
9. Visible Emissions:		
<p>i. Emission Standard: The Owner/Operator shall not cause or allow the emission of visible air</p>	<p>iii. Compliance Method: <i>[Reference APC-97/0503 4107]</i> Compliance with the visible Emission</p>	<p>vi. Reporting: None in addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii).</p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
<p>contaminants from the CCUs in excess of 20% opacity for an aggregate of more than 3 minutes in any 1 hour period, or more than 15 minutes in any 24 hour period. <i>[Reference APC-97/0503/410]</i></p> <p>ii. Operational Limitations: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1 (EU-84).</p>	<p>Standard shall be based on Monitoring/Testing requirements and on information available to the Department which may include, but is not limited to, monitoring results, opacity and process operating data.</p> <p>iv. Monitoring/Testing:</p> <p>A. The Owner/Operator shall conduct daily qualitative stack observations to determine the presence of any visible emissions when the units are in operation.</p> <p>B. If visible emissions are observed, the Company shall take corrective actions and/or conduct a visible observation in accordance with paragraph D below.</p> <p>C. If no visible emissions are observed, no further action is required.</p> <p>D. If required by paragraph B above, the Company shall, in accordance with subsection 1.5(c) of 7 DE Admin. Code 1120, conduct visible observations at fifteen-second intervals for a period of not less than one hour except that the observations may be discontinued whenever a violation of the standard is recorded. The additional procedures, qualifications and testing to be used for visually determining the opacity shall be those specified in Section 2 and 3 (except for Section 2.5 and the second</p>	<p>and 3(c)(2) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p> <p>A. <b>[RESERVED]</b></p> <p>vii. Certification: That required by Condition 3(c)(3) of this permit. <i>[Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</i></p>

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**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	<p>sentence of Section 2.4) of Reference Method 9 set forth in Appendix A of 40 CFR Part 60, revised July 1, 1982.</p> <p>v. Recordkeeping: In addition to complying with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84), the Owner/Operator shall keep a log of daily qualitative stack observations for each CCU.</p>	
<p>10. Sulfuric Acid Mist (<math>\text{H}_2\text{SO}_4</math>)</p> <p>i. Emission Limitation: <math>\text{H}_2\text{SO}_4</math> as measured by the average of the three stack test runs shall not exceed 3.1 tons per year. [Reference APC-97/0503(4.0)]</p>	<p>ii. Compliance Method: [Reference APC-97/0503(4.0)]</p> <p>A. Compliance with the <math>\text{H}_2\text{SO}_4</math> Emission Standards shall be demonstrated using stack test based emissions factors and fuel flow rates for the CCUs and duct burners.</p> <p>B. The Owner/Operator may use stack test results obtained while the CCUs are operating with duct burners to demonstrate compliance with the respective non-duct burner emission standards for <math>\text{H}_2\text{SO}_4</math> by subtracting the heat input of the duct burners.</p> <p>iii. Monitoring/Testing: A. The Owner/Operator shall conduct annually an EPA Reference Method 8 stack test for <math>\text{H}_2\text{SO}_4</math>, in accordance</p>	<p>v. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p> <p>A. Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1.vi (EU-84).</p> <p>vi. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>

Condition 3 – Table 1 (Specific Requirements)

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	<p>with Condition 3(b). The Owner/Operator may petition the Department to decrease the frequency of H<sub>2</sub>SO<sub>4</sub> performance tests based on the results of any performance testing.</p> <p>B. If the Owner/Operator conducts stack testing with the duct burners in operation, the Owner/Operator shall calculate the emission rate for operation without duct burner operation by subtracting the heat input contributed by the duct burners.</p> <p>iv. Recordkeeping:  Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84).</p>	
<p>11. Lead (Pb)</p> <p>i. Emission Limitation:  Lead emissions shall not exceed 0.004 tons per year. [Reference APC-97/0503(410)]</p>	<p>ii. Compliance Method: [Reference APC-97/0503(410)]  Compliance with the Pb Emission Standards shall be based on firing only natural gas in the CCUs and either natural gas or desulfurized refinery fuel gas in the duct burners.</p> <p>iii. Monitoring/Testing  None in addition to Condition 3.b of this permit.</p> <p>iv. Recordkeeping:  Comply with "Conditions Applicable to</p>	<p>v. Reporting:  In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]  A. Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1.vi. (EU-84).  vi. Certification:  That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]</p>



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<b>Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards</b>	<b>Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)</b>	<b>Reporting and Compliance Certification</b>
12. Sulfur Dioxide (SO <sub>2</sub> )		
i. Emission Limitation: SO <sub>2</sub> emissions shall not exceed 36.5 tons per year. [Reference <u>APC-97/0503/4101</u> ]	ii. Compliance Method: [Reference <u>APC-97/0503/4101</u> ] Compliance shall be based on firing only NG in the CCUs and either NG or desulfurized RFG in the DBs. iii. Monitoring/Testing None in addition to Condition 3.b of this permit. iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84).	v. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 <u>DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</u> ] A. Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1.vi (EU-84). vi. Certification: That required by Condition 3(c)(3) of this permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]
13. Ammonia (NH <sub>3</sub> ):		
i. Emission Limitation: [Reference <u>APC-97/0503/4101</u> ] A. The NH <sub>3</sub> emissions from each CCU shall not exceed the following levels: 1. With the SCR in Operation: (a) 5 ppmvd @ 15% O <sub>2</sub> <del>2. Without the SCR in Operation:</del> (b) <del>0 ppmvd @ 15% O<sub>2</sub></del> B. NH <sub>3</sub> emissions shall not exceed 34.3 tons per year. [Reference <u>APC-97/0503/4101</u> ]	ii. Compliance Method: [Reference <u>APC-97/0503/4101</u> ] Compliance shall be based on monitoring the stack gas by obtaining weekly grab samples from a location downstream of the SCR system using a department approved method. The company may request Department approval of less frequent monitoring if 24 consecutive sampling events indicate ammonia slip to be less than 2 ppmvd @ 15% O <sub>2</sub> .	vi. Reporting: In addition to the requirements of Conditions 2(a), 2(b)(9), 2(f)(3), 3(b)(1)(ii), and 3(c)(2) of this permit, the Company shall: [Reference: 7 <u>DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00</u> ] A. Comply with "Conditions Applicable to Multiple Pollutants" in Part 3, Condition 3 - Table 1.d.1.vi (EU-84). vi. Certification: That required by Condition 3(c)(3) of this

**Condition 3 – Table 1 (Specific Requirements)**

Emission Limitations, Emission Standards, Operational Limitations, and Operational Standards	Compliance Determination Methodology (Monitoring, Testing, QA/QC Procedures, and Record Keeping)	Reporting and Compliance Certification
	iii. Monitoring/Testing None in addition to Condition 3.b of this permit.  iv. Recordkeeping: Comply with "Conditions Applicable to Multiple Pollutants" in Condition 3 - Table 1.d.1.v (EU-84).	permit. [Reference: 7 DE Admin Code 1130 Sections 6.1.3.2.3 and 6.2.1 dated 12/11/00]
<b>e. Facility-Wide:</b> See Part 2, Condition 3 – Table 1.ob.		
1. Conditions applicable to Multiple Pollutants: <b>[RESERVED]</b>		
i. Operational Limitations: A. <b>[RESERVED]</b> B. <b>[RESERVED]</b>	ii. Compliance Method: <b>[RESERVED]</b>  iii. Monitoring & Testing: <b>[RESERVED]</b>  iv. Recordkeeping: <b>[RESERVED]</b>	v. Reporting Requirement: <b>[RESERVED]</b>  vi. Certification Requirement: <b>[RESERVED]</b>
2. Odor: <b>[RESERVED]</b> i. Emission Standard: <b>[RESERVED]</b> ii. Operational Limitations: <b>[RESERVED]</b>	iii. Compliance Method: <b>[RESERVED]</b>  iv. Monitoring & Testing: <b>[RESERVED]</b>  v. Recordkeeping: <b>[RESERVED]</b>	vi. Reporting Requirement: <b>[RESERVED]</b>  vii. Certification Requirement: <b>[RESERVED]</b>
3. Visible Emissions: <b>[RESERVED]</b> i. Emission Standard: <b>[RESERVED]</b>	iii. Compliance Method: <b>[RESERVED]</b>	vi. Reporting: <b>[RESERVED]</b>