BOBBY JINDAL
GOVERNOR

HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail No.:

Activity No.: PER20080008
Agency Interest No. 17846

Mr. William Capon
Plant Manager
UOP, LLC – Shreveport Plant
8725 Old Mooringsport Road
Shreveport, LA 71107

RE: Part 70 Operating Permit, UOP LLC - Shreveport Plant, UOP, LLC, Shreveport, Caddo Parish, Louisiana

Dear Mr. Capon:

This is to inform you that the permit renewal/modification for the above referenced facility has been approved under LAC 33:III.501. The permit is both a state preconstruction and Part 70 Operating Permit. The submittal was approved on the basis of the emissions reported and the approval in no way guarantees the design scheme presented will be capable of controlling the emissions as to the types and quantities stated. A new application must be submitted if the reported emissions are exceeded after operations begin. The synopsis, data sheets and conditions are attached herewith.

It will be considered a violation of the permit if all proposed control measures and/or equipment are not installed and properly operated and maintained as specified in the application.

Operation of this facility is hereby authorized under the terms and conditions of this permit. This authorization shall expire at midnight on the _____ of _____, 2015, unless a timely and complete renewal application has been submitted six months prior to expiration. Terms and conditions of this permit shall remain in effect until such time as the permitting authority takes final action on the application for permit renewal. The permit number and agency interest number cited above should be referenced in future correspondence regarding this facility.

Please be advised that pursuant to provisions of the Environmental Quality Act and the Administrative Procedure Act, the Department may initiate review of a permit during its term. However, before it takes any action to modify, suspend or revoke a permit, the Department shall, in accordance with applicable statutes and regulations, notify the permittee by mail of the facts or operational conduct that warrant the intended action and provide the permittee with the opportunity to demonstrate compliance with all lawful requirements for the retention of the effective permit.

Done this _____ day of _____, 2010.

Permit No.: 0500-00020-V5

Sincerely,

FOR PUBLIC
NOTICE
DRAFT

PUBLIC NOTICE
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY (LDEQ)
UOP, LLC / SHREVEPORT PLANT
PROPOSED PART 70 AIR OPERATING PERMIT RENEWAL/MODIFICATION

The LDEQ, Office of Environmental Services, is accepting written comments on a proposed renewal and modification of the Part 70 Air Operating Permit for UOP, LLC - Shreveport Plant, 8725 Old Mooringsport Road, Shreveport, LA 71107 for the Shreveport Plant. **The facility is located at 8725 Old Mooringsport Road in Shreveport, Caddo Parish.**

UOP, LLC requested renewal/modification of the Part 70 Air Operating Permit for its Shreveport Plant, an existing catalyst manufacturing facility. In this permit modification, UOP, LLC is requesting authorization for the following changes:

1. Replace the burners of the existing Oxidizer Oven on Spherical Catalyst Manufacturing SCM Line 2, Emission Points 240-01 thru 240-08, and revise the emissions accordingly;
2. Update the emission rates of the South Laboratory Fume Scrubber, Emission Point 110-02, to incorporate:
   a. emissions from Laboratory Scale Production Unit, Emission Point LAB-01, approved under a Small Source Exemption issued August 11, 2004,
   b. emissions from a proposed Semi-Works Unit;
3. Route the emissions from the Raw Materials Repackaging Area approved under a Case-By-Case Insignificant Activity issued April 4, 2005 to the Repackaging Area Dust Collector, Emission Point 150-01-A, previously called Warehouse Bagging Dust Collector;
4. Allow processing of base-metal materials containing nickel, cobalt, copper and manganese at the warehouse bagging area which is controlled by No. 8 Warehouse Dust Collector, Emission Point 150-02 (EQT 020). Revise the emissions from 150-02 accordingly;
5. Delete twelve (12) Emission Points. These are: No.1 Steam Boiler, Oversized Spent Catalyst Screening, Spent Catalyst Dryer/Gas Scrubber, Mill Crusher Dust Collector, Feed Tank Car Loading / Unloading, Drum / Tank Truck Loading / Unloading, Railcar Loading / Unloading, Low Vacuum Pneumatic Conveying System, Batch Aluminum Digester, No. 1 Scrubber, Continuous Aluminum Digester, No. 2 Scrubber, Belt Press Filter System, and Sludge Dryer, Emission Points: 140-01 (EQT 005), 220-02 (EQT 028), 270-04 (EQT 033), 270-07 (EQT 035), 300-16A (EQT 045), 300-18 (EQT 047), 300-20A (EQT 048), 320-02 (EQT 055), 410-03 (EQT 061), 410-04 (EQT 062), (EQT090), and (EQT 091), respectively;
6. Revise the permitted emissions for the Boiler CAP (Emission Point 140-CAP);
7. Add to the list of sources venting to Emission Point 140-05, emission sources that are listed in the current permit as insignificant activities. These are: RWT1 Tank -Recycle Water from Inorganic Process, Recycle Water Tank, Spent Recycle Water Tank, Tank for Distillate from Evaporators, 5-10% Caustic Solution Tank, Spent Recycle Water Tank, and Brine Tank, Emission Points SV-140-95, SV-140-100, SV-140-111, SV-140-115, SV-140-116, SV-140-134, and SV-280-83, respectively;
8. Update the Insignificant and General Condition XVII Activity lists;
9. Change the scrubber operating parameter range of the Conical Evaporators Fume Scrubber, Emission Point 240-09-A, from NaOH concentration $\geq$ 1.0 weight percent to pH $\geq$ 9.0 s.u;
10. Change the scrubber operating parameter range of the SCM Scrubber Stack, Emission Point 330-01-A, from HCl concentration $\geq$ 0.03 weight percent to pH $\leq$ 6.5 s.u;
11. Change the pH control requirements for Emission Points 900-04, 900-05-A, and 900-08;
12. Include three cooling towers, currently reported on the Insignificant Activity List, as regular emission sources. These are: RWT/Reduction Cooling Tower, SCM Lines 1 & 2 Cooling Tower, and SCM Line 3 Cooling Tower, Emission Points CT-01, CT-02, and CT-03, respectively;
13. Incorporate into the permit the below listed actions:
    a. Installation of a small-scale unit for Production of Specialty Coating Material, Emission Point SC-01, approved under a Case-By-Case Insignificant Activity, issued March 19, 2009,
    b. Addition of a small-scale unit for Production of Specialty Catalyst - Preparation, Emission Point SC-02A, and Production of Specialty Catalyst – Process, Emission Point SC-02B, approved under a Case-By-Case Insignificant Activity, issued April 15, 2009,
    c. Installation of a natural gas fired Cummins GM 3.0 L Emergency Generator, Emission Point 140-07 (EQT 0125), approved under a Regulatory Permit for Emergency Engines issued July 29, 2009; and
14. Correct minor errors in Permit No. 0500-00020-V4, issued December 19, 2008, under which the facility is currently operating.

Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM_{10}	79.07	74.16*	- 4.91
SO_2	9.17	6.59	- 2.58
NO_x	436.53	416.04	- 20.49
CO	329.15	311.71	- 17.44
VOC	344.20	306.56	- 37.64
TAPs	225.208	220.411**	- 4.797

**Includes 42.79 TPY of Aluminum oxide emission.*
***Includes 7.266 tons of VOC TAPs, and 213.145 tons of non-VOC TAPs.*

A technical review of the working draft of the proposed permit was submitted to the facility representative and the LDEQ Surveillance Division. Any remarks received during the technical review will be addressed in the "Worksheet for Technical Review of Working Draft of Proposed Permit". All remarks received by LDEQ are included in the record that is available for public review.

Written comments, written requests for a public hearing or written requests for notification of the final decision regarding this permit action may be submitted to Ms. Soumaya Ghosn at LDEQ, Public Participation Group, P.O. Box 4313, Baton Rouge, LA 70821-4313. **Written comments and/or written requests must be received by 12:30 p.m., Tuesday, February 23, 2010.** Written comments will be considered prior to a final permit decision.

If LDEQ finds a significant degree of public interest, a public hearing will be held. LDEQ will send notification of the final permit decision to the applicant and to each person who has submitted written comments or a written request for notification of the final decision.

The permit application, proposed renewal/modification of the Part 70 air operating permit, and statement of basis are available for review at the LDEQ, Public Records Center, Room 127, 602 North 5th Street, Baton Rouge, LA. Viewing hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday (except holidays). **The available information can also be accessed electronically on the Electronic Document Management System (EDMS) on the DEQ public website at www.deq.louisiana.gov**.

Additional copies may be reviewed at Caddo Parish Library - Shreve Memorial – Main, 424 Texas Street, Shreveport, LA 71120.

Inquiries or requests for additional information regarding this permit action should be directed to Dr. Hassan Ghosn, LDEQ, Air Permits Division, P.O. Box 4313, Baton Rouge, LA 70821-4313, phone (225) 219-3113.

Persons wishing to be included on the LDEQ permit public notice mailing list or for other public participation related questions should contact the Public Participation Group in writing at LDEQ, P.O. Box 4313, Baton Rouge, LA 70821-4313, by email at deqmaillistrequest@la.gov or contact the LDEQ Customer Service Center at (225) 219-LDEQ (219-5337).

Permit public notices including electronic access to the proposed permit and statement of basis can be viewed at the LDEQ permits public notice webpage at www.deq.louisiana.gov/apps/pubNotice/default.asp and general information related to the public participation in permitting activities can be viewed at www.deq.louisiana.gov/portal/tabid/2198/Default.aspx.

Alternatively, individuals may elect to receive the permit public notices via email by subscribing to the LDEQ permits public notice List Server at http://www.doa.louisiana.gov/oes/listservpage/ldeq_pn_listserv.htm.

All correspondence should specify AI Number 17846, Permit Number 0500-00020-V5, and Activity Number PER20080008.

Scheduled publication date: Wednesday, January 20, 2010

AIR PERMIT BRIEFING SHEET
AIR PERMITS DIVISION
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP, LLC - Shreveport Plant
Agency Interest No.: 17846
UOP, LLC
Shreveport, Caddo Parish, Louisiana

I. Background

UOP LLC Shreveport Plant (UOP), an existing catalyst manufacturing facility, located approximately 15 miles northwest of Shreveport, in Caddo Parish, began operation in 1950 prior to promulgation of the Louisiana Air Quality Regulations in 1969. The plant operated under various permits in the form of certificates, exemptions and variances, the last of which, a variance request for installing controls on the existing spherical catalyst manufacturing unit (SCM) to net out of PSD review, was granted on December 27, 1990.

A request to install and operate a new SCM unit was approved under state Permit No. 0500-00020-01, issued on April 29, 1991. A request to consolidate all permit actions associated with the plant under a single permit was approved and Permit No. 0500-00020-02 was granted on March 1, 1992. Installation of a sludge dryer in the recycle water unit area to reduce the volume and weight of the sludge, the emissions from which are routed to the recycle water unit scrubber, along with incorporation of stack results for a number of emission sources was approved under Permit No. 0500-00020-03 issued May 13, 1992. An additional drying system consisting of a natural gas heater, a shell and tube type gas cooler, a knock out pot, and two rotary blowers was approved and Permit No. 0500-00020-04 was issued on June 29, 1992, amended November 18, 1992. A request to scrap the installation of a wet scrubber requested in October 1990 and continue releasing the emissions from SCM Line 1 batch oxidizer and rotary evaporators through their respective stacks; allow emissions of hydrogen fluoride from the oxidizer and evaporators and speciate the emissions from the gasoline tank and the spent catalyst dryer/gas scrubber was granted on September 13, 1993 under Permit No. 0500-00020-05.

A request to increase chlorine emissions from the conical evaporators fume scrubber, increase the maximum hourly rate from the oxidizer scrubber stack, update the emissions rates to reflect associated stack test results, remove old storage tanks, and add a new aqueous ammonia tank to the list of insignificant activities was granted and Permit No. 0500-00020-06 was issued on February 24, 1994 and amended December 16, 1994.

A modification consisting of processing high chloride levels spent catalyst on SCM Lines 2 and 3 rather than in the coke oven; increasing hydrogen fluoride emissions; re-designating replacements tanks and dust collectors; producing a nickel containing catalyst on both SCM Lines 1 and 2 and a variety of catalysts that causes NO_X emissions; and including inadvertently omitted hydrochloric acid emissions from the coke burnoff vent scrubber and the kiln scrubber vents was approved and Permit No. 0500-00020-07 was issued April 4, 1995 and amended April 13, 1995 and September 20, 1996.

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UOP installed a new calciner, replacing two SCM Line calciners and a vent collection system with dust collector to control fugitive emissions under Small Source Permit No. 2408, issued July 2, 1996. A request to install a second digester scrubber in the Metals Recovery Unit; replace five inorganic storage tanks with new ones; relocate the Warehouse Bagging Dust Collector to another building within the site and incorporate Permit No. 2408 was approved and\ permit No. 0500-00020-08 issued October 23, 1996.

Installation of two diesel and one gasoline storage tanks was approved under a Small Source Permit No. 2450, dated December 12, 1996.

A request to allow production of catalysts which will result in nitric acid emissions on SCM Lines 2 and 3; report aluminum oxide as PM_{10}; increase the production rates on SCM Lines of certain types of catalysts that result in increased hydrochloric acid (HCl) and particulates on SCM Line 2 and Chlorine (Cl_2) on SCM Line 3; include in the list of insignificant activities two 6,000-gallon phosphoric acid and ammonium nitrate storage tanks permitted under an exemption dated December 22, 1995; operate the No. 2 regenerator system as a vent Line instead of a closed drain; convert SCM Line 2 calciner from indirect to direct fired; update emissions and incorporate various administrative changes, was approved under Permit No. 0500-00020-09, issued February 25, 1997.

Replacing an existing 14,850-gallon neutral oil tank with a new 12,900-gallon tank, the emissions from which are controlled by the SCM Scrubber Stack, Emission Point 330-01-A, was approved under Small Source Permit No. 2493, issued on November 7, 1997. Addition of a 35,000-gallon dichlorotoluene feed mixture fixed roof nitrogen blanketed storage tank was approved under Small Source Permit No. 2555 issued August 12, 1998.

A request to increase carbon monoxide (CO) emissions from SCM Scrubber Stack, Emission Point 330-01-A, and incorporate previous changes previously permitted under various actions was approved under Permit No. 0500-00020-10, issued March 22, 2001.

Approval to produce 98,000 lbs of a new catalyst on SCM Line 2 was granted under Permit No. 0500-00020-11 was granted on January 30, 2002.

A request to increase nitrogen oxide (NO_X) emissions from SCM Line 1, Emission Point 210-01, increase production of copper containing catalysts on SCM Line 2, nickel containing catalysts on SCM Lines 1 and 2, catalysts on SCM Line 1 which result in increased emission of hydrogen fluoride, and correct the nickel oxide emission rates from Emission Points 240-09-A and 240-10, was approved and Permit No. 0500-00020-12 was issued on January 29, 2003.

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Shreveport, Caddo Parish, Louisiana

The facility was issued its initial Part 70 Title V Operating Permit No. 0500-00020-V0 on June 11, 2004 and amended August 20, 2004 to delete Specific Condition No. 6 and revise the particulate removal efficiencies of the conical Evaporators Fume Scrubber and the SCR Vent, Emission Points 240-09-A and 240-09-B, from 90% to 95%.

A modification consisting of increased production of certain catalyst types on SCM Line 2; Expansion of pressure drop range for the Tank farm HCl Fume Scrubber, Emission Point 410-01; Substitution of the scrubbing media monitoring parameter of NAOH concentration by the solution pH (pH>7.0 instead of NAOH concentration >1%); deletion of the out-of-service storage tanks whose emissions were controlled by SCM Scrubber Stack and the Tanks Farm Fume Scrubber, Emission Points 310-01-A and 270-05; revise the recordkeeping requirement of 40 CFR 60 – Subpart Kb consistent with the recent changes; and update the facility's emissions accordingly, was approved and Permit No. 0500-00020-V1 was issued on September 21, 2005.

A request to increase only the hourly emission rates for Emission Points 140-05, 330-01-A, and 620-02; increase production of certain catalyst types on SCM Line 2, add an existing sump pump to the group of sources permitted under Emission Point 900-05-A; addition of steam boiler No. 5; update the insignificant activities list and General Condition XVII; delete two storage tanks, Emission Points 300-15 and 300-23; incorporate ammonia emissions on SCM Line 3, was approved and Permit No. 0500-00020-V2 was issued December 15, 2006. An amendment to replace an existing tank and effect minor corrections and changes was approved February 15, 2007. Another amendment to apply the opacity and sulfur dioxide emissions limitations on SCM Line 1 oxidizer oven, Emission Point 210-01, and on the Sludge Dryer, SCM Line 1 Dryer Oven and SCM Line 3 Drying Oven, was issued December 21, 2007.

UOP requested approval for installing a selective catalytic reduction control system (SCR) on SCM Line 1, labeled as the De NO_X project, to which routed are the emissions from catalysts that generate high NO_X; establish a flexibility cap for the emissions from the SCM Line Oxidizer Oven Stack, Line 1 SCR Vent, and SCM Scrubber Stack, Emission Points 210-01-A, 210-01-B, and 330-01-A, respectively; update emissions accordingly and revise some regulatory requirements consistent with the latest changes. The request was approved under Permit 0500-00020-V3, issued August 15, 2008.

A request was submitted by UOP to shift 1 ton chlorine emission from Line 2 CAP to the stack of SCM Line 3 Oxidizer scrubber, and increase the maximum hourly rate of chlorine emission for a number of emission points; increase the maximum hourly hydrochloric acid emission rate for the SCM Line 3 Oxidizer Scrubber and change the operating parameters for of the scrubber; remove the aluminum sulfate production line and associated tanks; and

establish a CAP for catalyst trial emissions from SCM Lines 1, 2 and 3. The request was approved and Permit No. 0500-00020-V4 was issued on December 19, 2008, under which the plant is currently operating.

Two case by case insignificant activities were approved in March and April 2009 allowing for the small-scale production of a specialty coating material and a specialty catalyst, respectively. Also a regulatory permit for installing a 39.5 hp emergency generator was granted July 29, 2009.

II. Origin

A permit application and Emission Inventory Questionnaire were submitted by UOP LLC on November 11, 2008 requesting a Part 70 operating permit. Additional information dated December 31, 2008, August 5, August 17, September 2, September 3, September 8, September 14, and September 17, 2009 was also received. A revised application dated October 8, 2009 was received. Additional information dated November 9, 2009 was also received.

III. Description

UOP's Shreveport Plant consists of various manufacturing and processing areas, a utilities area and a laboratory. The various processing areas include (1) spherical catalyst manufacturing units (SCMs); (2) a catalyst reduction unit; (3) a spent catalyst processing unit; (4) a desorbent loading/unloading unit; and (5) the Sarex unit. A description of the various processing units and emissions are as follows:

Spherical Catalyst Manufacturing (SCM) Lines 1, 2, and 3

The spherical catalyst manufacturing units consist of both batch and continuous operations. The SCM units produce a support or catalyst base that is impregnated with a suitable metal, which promotes certain chemical reactions. The process consists of digesting aluminum to produce an aluminum solution, which is used to form the catalyst base. The catalyst base is formed, aged, washed, dried, and calcined. The calcined base (1/8 inch spheres) and extruded/spherical base feedstocks, from off-site sources, are impregnated with various combinations of metals; and goes through an oxidation/reduction procedure after impregnation, depending on the end use of the catalyst. Process gases from the forming, aging, washing, drying and initial calcining processes are vented to a scrubber before exiting the main unit stack. (Refer to LIST 1: SUMMARY OF OPERATING CONDITIONS FOR SCRUBBERS, on page 10, for a list of scrubbers for the entire facility and their operating parameters).

Reduction Unit

Some active catalysts are reduced and/or sulfided after processing in the SCM units. The catalysts are processed batchwise with hydrogen addition in either Number 1 Reduction Unit or Number 2 Reduction Unit. Dryers remove moisture from the catalyst during the reduction. If required, a small quantity of hydrogen sulfide is blended with the catalyst following the reduction. Catalyst is then screened and drummed. The regeneration system removes moisture from the dryers after the reduction is completed. Process emissions consist primarily of hydrogen, small quantities of hydrogen chloride, and particulates (aluminum oxide Al_2O_3). The installation of a second regeneration system increased the reduction unit's capacity by 18%.

Spent Catalyst Area – Dismantled Unit – Remaining Unit

In the past, spent catalyst was received from UOP customers for processing in the Metals Recovery Unit. The metals were recovered, purified and then re-used in catalyst production. Prior to processing in the Metals Recovery Unit, the spent catalyst was screened to separate the catalyst fines. A small percentage of the catalyst received contained a residual coating of hydrocarbons. This catalyst was dried in a steam jacketed vessel prior to further processing.

The Metals Recovery Unit was shut down at the end of August 1997 and completely dismantled in 1998. Some remaining spent catalyst processing equipment remains in place. The remaining equipment consists of: (1) screening and grinding equipment with associated dust collector emission controls; and (2) the spent catalyst dryer and an associated wet scrubber. Air emissions from these sources include particulate matter and aluminum oxide emissions from materials handling and hydrocarbon emissions from catalyst drying. Most of this equipment is being demolished and is to be removed from the air permit.

Non-hazardous spent catalyst of high chloride content is processed in the SCM Lines 2 and 3 oxidizers ovens. The processing emissions are included under Emission Points 240-09-CAP and 630-01.

Desorbent Loading/Unloading Unit

The Sorbex Unit ceased operation in November 1999 and was demolished August 2002. A select number of sources associated with the Sorbex Unit will remain in place for future needs. These remaining emission sources (storage tanks and loading/unloading racks) are now known as the Desorbent Loading/Unloading Unit.

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Hydrocarbon emissions from this unit include working and breathing losses from storage tanks, and loading/unloading losses. Submerged loading is used to minimize emissions during loading/unloading operations. As a result of the demolition of the Sorbex Unit, the facility is no longer subject to Subparts F, G, and H of the Hazardous Organic NESHAP (HON) regulations (40 CFR 63, Subparts F, G, and H).

Sarex Unit

The Sarex Unit processes a solid support used for the isomerization of sugars. The support is coated with a high (approximately 70,000 lb/lb-mol) molecular weight polymer and then dried in a steam heated tray dryer (at 200 °F); then it is shipped to another location for further processing. Intermediate product derived from this process is screened and drummed for shipment.

Emissions from the Sarex Unit include VOC (conservatively estimated as 1% of the amount of polymer used because of the high molecular weight of the dried polymers) from the tray dryer and particulates (aluminum oxide). Particulate emissions are controlled by a baghouse.

Utilities

The utility area consists of three natural gas-fired steam boilers and three cooling towers.

Laboratory/Miscellaneous Sources

The Shreveport Plant has on-site laboratory facilities which are used for quality control and research and development purposes. The laboratory is equipped with fume hoods that exhaust through one of two scrubbers. Emissions from these scrubbers consist primarily of acid fumes.

The two laboratory scrubbers are permitted sources. All other emission sources associated with the laboratory are listed in this document as insignificant activities in accordance with LAC 33:III.501.B.5.

De NO_X Project

Currently production of certain types of catalysts generates low or negligible NO_X emissions. Emissions during the production of these types of catalysts are either routed through the existing Line 1 Oxidizer Oven Stack, Emission Point 210-01; re-designated as 210-01-A, or through the SCM Scrubber Stack, Emission Point 330-01-A.

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Production of anticipated new catalysts types are expected to generate high levels of NO_X emissions. Emissions during the production of these types of catalysts will be routed through the vent of a selective catalytic reduction (SCR) control system to be installed on SCM Line 1 and designated as, Emission Point 210-01-B.

The vent stream that is routed to the new SCR system must be heated to an optimum temperature before entering the SCR. Therefore, prior to entering the SCR reactor, the vent stream is routed through a natural gas direct-fired heater. The combustion emissions from the heater will be comingled with the process emissions and vented to the SCR system and then through Emission Point 210-01-B.

The NO_X concentrations of the entering stream to the SCR system and of the released stream from the SCR system outlet vent, Emission Point 210-01-B, will be measured by two analyzers installed with the SCR system.

The SCR is used to control the NO_X emissions to the currently permitted level. As such, emissions from Emission Points: 210-01-A, 210-01-B and 330-01-A are capped for flexibility reasons only.

Semi-Works Unit

This is a small scale pilot plant unit to conduct research and development of various catalyst types. It consists of a conical evaporator, an oxidizer oven, and a reduction reactor. This equipment is heated utilizing electric heaters. The emissions from the equipment will be treated by in-line controls, such as a caustic bubbler, prior to being routed to the South Laboratory Fume Scrubber, Emission Point 110-02.

UOP, LLC requests renewal for its Shreveport Plant Part 70 Permit No. 0500-00020-V4. It also proposes the following actions:

1. Replace the burners of the existing Oxidizer Oven on Spherical Catalyst Manufacturing SCM Line 2, Emission Points 240-01 thru 240-08, and revise the emissions accordingly;
2. Update the emission rates of the South Laboratory Fume Scrubber, Emission Point 110-02, to incorporate:
    a. emissions from Laboratory Scale Production Unit, Emission Point LAB-01, approved under a Small Source Exemption issued August 11, 2004,
    b. emissions from a proposed Semi-Works Unit;

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3. Route the emissions from the Raw Materials Repackaging Area approved under a Case-By-Case Insignificant Activity issued April 4, 2005 to the Repackaging Area Dust Collector. Emission Point 150-01-A, previously called Warehouse Bagging Dust Collector;

4. Allow processing of base-metal materials containing nickel, cobalt, copper and manganese at the warehouse bagging area which is controlled by No. 8 Warehouse Dust Collector. Emission Point 150-02 (EQT 020). Revise the emissions from 150-02 accordingly;

5. Delete twelve (12) Emission Points. These are: No.1 Steam Boiler, Oversized Spent Catalyst Screening, Spent Catalyst Dryer/Gas Scrubber, Mill Crusher Dust Collector, Feed Tank Car Loading / Unloading, Drum / Tank Truck Loading / Unloading, Railcar Loading / Unloading, Low Vacuum Pneumatic Conveying System, Batch Aluminum Digester, No. 1 Scrubber, Continuous Aluminum Digester, No. 2 Scrubber, Belt Press Filter System, and Sludge Dryer, Emission Points: 140-01 (EQT 005), 220-02 (EQT 028), 270-04 (EQT 033), 270-07 (EQT 035), 300-16A (EQT 045), 300-18 (EQT 047), 300-20A (EQT 048), 320-02 (EQT 055), 410-03 (EQT 061), 410-04 (EQT 062), (EQT090), and (EQT 091), respectively;

6. Revise the permitted emissions for the Boiler CAP (Emission Point 140-CAP);

7. Add to the list of sources venting to Emission Point 140-05, emission sources that are listed in the current permit as insignificant activities. These are: RWT1 Tank -Recycle Water from Inorganic Process, Recycle Water Tank, Spent Recycle Water Tank, Tank for Distillate from Evaporators, 5-10% Caustic Solution Tank, Spent Recycle Water Tank, and Brine Tank, Emission Points SV-140-95, SV-140-100, SV-140-111, SV-140-115, SV-140-116, SV-140-134, and SV-280-83, respectively;

8. Update the Insignificant and General Condition XVII Activity lists;

9. Change the scrubber operating parameter range of the Conical Evaporators Fume Scrubber. Emission Point 240-09-A, from NaOH concentration $\geq$ 1.0 weight percent to pH $\geq$ 9.0 s.u;

10. Change the scrubber operating parameter range of the SCM Scrubber Stack, Emission Point 330-01-A, from HCl concentration $\geq$ 0.03 weight percent to pH $\leq$ 6.5 s.u;

11. Change the pH control requirements for Emission Points 900-04, 900-05-A, and 900-08;

12. Include three cooling towers, currently reported on the Insignificant Activity List, as regular emission sources. These are: RWT/Reduction Cooling Tower, SCM Lines 1 & 2 Cooling

Tower, and SCM Line 3 Cooling Tower, Emission Points CT-01, CT-02, and CT-03, respectively;

13. Incorporate into the permit the below listed actions:

    a. Installation of a small-scale unit for Production of Specialty Coating Material, Emission Point SC-01, approved under a Case-By-Case Insignificant Activity, issued March 19, 2009,

    b. Addition of a small-scale unit for Production of Specialty Catalyst - Preparation, Emission Point SC-02A, and Production of Specialty Catalyst – Process, Emission Point SC-02B, approved under a Case-By-Case Insignificant Activity, issued April 15, 2009,

    c. Installation of a natural gas fired Cummins GM 3.0 L Emergency Generator, Emission Point 140-07 (EQT 0125), approved under a Regulatory Permit for Emergency Engines issued July 29, 2009; and

14. Correct minor errors in Permit No. 0500-00020-V4, issued December 19, 2008, under which the facility is currently operating.

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LIST 1: SUMMARY OF OPERATING CONDITIONS FOR SCRUBBERS

Emission Point No	Name	Removal Efficiency	Scrubbing Media	Recycle Flow (gpm)	Pressure Drop (in. H_2O)	Scrubbing Media % NaOH	Scrubbing Media % HCl
110-1 (North)	North Laboratory Fume Scrubber	90% HCl H_2SO_4, HNO_3	Water/NaOH	≥ 60	0.1 - 3.0	pH ≥ 7.0	NA
110-2 (South)	South Laboratory Fume Scrubber	90% HCl H_2SO_4, HNO_3	Water/NaOH	≥ 120	0.1 - 2.5	pH ≥ 7.0	NA
140-5	Recycle Water Scrubber	85% VOC 70% PM 90% Al_2O_3 97% NH_3 98% TMA	HCl	≥ 200	0.05 - 14	NA	≥ 0.03
240-09-A	Conical Evaporators Fume Scrubber	95% HCl, Cl2 80% NH_3 95% PM 50% HNO_3	NaOH * Water	≥ 70	4 - 12	pH ≥ 9.0*	pH ≤ 8 *
270-5	Tank Farm Fume Scrubber	85% HCl	NaOH	≥ 8	0.3 - 3.8	≥ 1.0	NA
330-01-A	SCM Scrubber Stack	28.5% VOC 70% Al_2O_3,PM 98% $(CH_3)_3N$ 99% NH_3	HCl	≥ 650	10 - 20	NA	pH ≤ 6.5
410-1	Tank Farm HCl Fume Scrubber	95% HCl	Water/NaOH	≥ 8	5 - 10	≥ 1.0	NA
600-1	Aluminum Digester Vent	95% HCl	NaOH	≥ 5	0.001 - 2.5	≥ 1.0	NA
620-2	Main Plant Stack	50% VOC 90% PM 97% TMA 99% Al203/NH_3	HCl	≥ 350	9 - 16	NA	≥ 0.03
630-1	Oxidizer Caustic Scrubber	70% PM 95% Cl_2 98% HCl	NaOH	≥ 200	0.8- 5.8	pH ≥ 9.0	NA

*DURING THE PRODUCTION OF CATALYSTS THAT RESULT IN THE EMISSION OF ACIDIC COMPOUNDS, THE PROCESS GASES ARE SCRUBBED WITH A CAUSTIC SOLUTION. DURING THE PRODUCTION OF CATALYSTS THAT RESULT IN THE EMISSION OF NH_3, AND WHEN THE SCR NO_X REMOVAL SYSTEM IS NOT IN OPERATION, THE PROCESS GASES ARE SCRUBBED WITH WATER. DURING THE PRODUCTION OF CATALYSTS THAT RESULT IN THE EMISSION OF NH_3, AND WHEN THE SCR NO_X REMOVAL SYSTEM IS IN SERVICE, NO CONTROL OF SCRUBBING MEDIA QUALITY (pH or % NaOH) IS REQUIRED BECAUSE THE SCR NO_X REMOVAL SYSTEM CONSUMES THE NH_3 EMISSIONS. DURING THE PRODUCTION OF CATALYSTS THAT DO NOT RESULT IN EMISSIONS OF EITHER ACIDIC COMPOUNDS OR NH_3, NO CONTROL OF SCRUBBING MEDIA QUALITY (pH or % NaOH) IS REQUIRED

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Estimated emissions in tons per year are as follows:

Pollutant	Before	After	Change
PM_{10}	79.07	74.16*	- 4.91
SO_2	9.17	6.59	- 2.58
NO_X	436.53	416.04	- 20.49
CO	329.15	311.71	- 17.44
VOC	344.20	306.56	- 37.64
TAPs	225.208	220.411	- 4.797

**Includes 42.79 TPY of Aluminum oxide (Al_2O_3) emissions.*

VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Benzene	0.123	0.018	- 0.105
Cumene	0.001	-	- 0.001
Dimethyl formamide	0.082	0.079	- 0.003
Dimethylnaphthalene (PAH)	1.86	-	- 1.860
Ethyl benzene	0.073	0.035	- 0.038
Formaldehyde	7.110	7.113	+ 0.003
Toluene	0.090	0.020	- 0.070
Xylene *(isomers)*	0.011	0.001	- 0.010
Total	9.351	7.266	- 2.085

Other VOC (TPY) 299.294

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Non-VOC LAC 33:III Chapter 51 Toxic Air Pollutants (TAPs):

Pollutant	Before	After	Change
Ammonia	145.53	143.789	- 1.741
Chlorine	5.341	5.338	- 0.003
Cobalt Oxide	0.184	0.180	- 0.004
Copper Oxide	0.281	0.280	- 0.001
Hydrochloric Acid	49.240	48.227	- 1.013
Hydrogen fluoride	4.503	4.503	-
Hydrogen Sulfide	0.438	0.439	+ 0.001
Manganese Dioxide	0.022	0.022	-
Nickel Oxide	0.1130	0.115	+ 0.002
Nitric Acid	10.083	10.130	+ 0.047
Sulfuric Acid	0.122	0.122	-
Total Non-VOC TAPs	215.857	213.145	- 2.712
Total TAPs (VOC & non-VOC	225.208	220.411	- 4.797

IV. Type of Review

This permit was reviewed for compliance with 40 CFR 70, the Louisiana Air Quality Regulations, New Source Performance Standards (NSPS), and National Emission Standards for Hazardous Air Pollutants (NESHAP). Prevention of Significant Deterioration (PSD) does not apply.

This facility is a major source of toxic air pollutants (TAPs) pursuant to LAC 33:III.Chapter 51. The emissions of the following Class I and II compounds are above their minimum emission rate (MER): Formaldehyde, Nickel Oxide, and copper and compounds and must meet Maximum Achievable Control Technology (MACT) according to LAC 33:III.5109.A. MACT is determined to be routing to the corresponding existing control system (Dust collector, scrubber, SCR and Thermal oxidizer). In addition, Ammonia, Chlorine, Hydrochloric Acid, Hydrofluoric Acid, Nitric Acid, and Sulfuric Acid, which are Class III compounds, are above their MER.

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V. Credible Evidence

Notwithstanding any other provisions of any applicable rule or regulation or requirement of this permit that state specific methods that may be used to assess compliance with applicable requirements, pursuant to 40 CFR Part 70 and EPA's Credible Evidence Rule, 62 Fed. Reg. 8314 (Feb. 24, 1997), any credible evidence or information relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed shall be considered for purposes of Title V compliance certifications. Furthermore, for purposes of establishing whether or not a person has violated or is in violation of any emissions limitation or standard or permit condition, nothing in this permit shall preclude the use, including the exclusive use, by any person of any such credible evidence or information.

VI. Public Notice

A notice requesting public comment on the permit was published in *The Advocate*, Baton Rouge, on <date>, 2009; and in *The Times*, Shreveport, on <date>, 2009. A copy of the public notice was mailed to concerned citizens listed in the Office of Environmental Services Public Notice Mailing List on <date>. The draft permit was also submitted to US EPA Region VI on <date>. All comments will be considered prior to the final permit decision.

VII. Effects on Ambient Air

Emissions associated with the proposed renewal/modification were reviewed by the Air Quality Assessment Division to ensure compliance with the NAAQS and AAS. LDEQ did not require the applicant to model emissions.

The maximum concentrations for various pollutants listed in the table below are obtained from a refined dispersion modeling performed by the permittee and submitted to LDEQ in January 1993, and from a screen using ISCST3 for PM_{10} performed by LDEQ in March 2005. The former did not include emissions of Aluminum Oxide (Al_2O_3), which is particulate matter. LDEQ Office of Environmental Assessment – Air Quality Assessment performed an ISCST3 (screen) for PM_{10} in March 2005 which incorporated Al_2O_3 emissions into the total PM_{10} emissions. The screen results showed that the total PM_{10} emissions are within the ambient air quality standards and no further modeling is required of the facility at this time.

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Dispersion Model(s) Used: ISCST/ISCLT

Pollutant	Time Period	Calculated Maximum Ground Level Concentration	Louisiana Toxic Air Pollutant Ambient Air Quality Standard or (National Ambient Air Quality Standard {NAAQS})
PM_{10}	24-hour	(147.40[1] $\mu g/m^3$)	(150.00 $\mu g/m^3$)
PM_{10}	Annual	(17.20[1] $\mu g/m^3$)	(50.00 $\mu g/m^3$)
NO_x	Annual	(11.55 $\mu g/m^3$)	(100.00 $\mu g/m^3$)
NH_3	8-hour	145.10 $\mu g/m^3$	640.00 $\mu g/m^3$
Al_2O_3	8-hour	148.50 $\mu g/m^3$	238.10 $\mu g/m^3$
Benzene	Annual	0.049 $\mu g/m^3$	12.00 $\mu g/m^3$
Formaldehyde	Annual	0.019 $\mu g/m^3$	7.69 $\mu g/m^3$
HCl	8-hour	55.96 $\mu g/m^3$	180.00 $\mu g/m^3$
Cl_2	8-hour	1.17 $\mu g/m^3$	95.00 $\mu g/m^3$
HF	8-hour	2.65 $\mu g/m^3$	61.90 $\mu g/m^3$
HNO_3	8-hour	27.07 $\mu g/m^3$	120.00 $\mu g/m^3$
H_2SO_4	8-hour	8.01 $\mu g/m^3$	23.80 $\mu g/m^3$

[1]*Data obtained from the LDEQ ISCST3 (screen) in March 2005. The rest of the data is obtained from "Air Dispersion Modeling performed on Toxic Air Pollutants" report submitted to LDEQ January 1993*

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VIII. General Condition XVII Activities

Work Activity	Schedule	Emission Rates – tons																		
		PM_{10}	SO_2	NOx	CO	VOC	Al2O3	Cl_2	CH_2O	Co &	Cu&	DMA	HCl	HNO_3	H_2SO_4	Mn &	NH_3	Ni &	TMA	Other
Loading/Unloading Disconnects	2,898 events/yr							0.0225					0.0192	0.0151			0.0625			
Startup/Shutdown for Cyclones/Knock-out Pots	100 runs/yr	0.001																		
Scrubber By-pass Activities	48 events/yr	0.06	0.001	0.06	0.04	0.11	0.033	0.020	0.002	0.0001	0.0001	0.001	0.179	0.004	0	0.00001	0.5821	0.00002	0.044	0.00024
Startup/Shutdown for De NO_X Units	144 events/yr																0.0002			
Control equipment Maintenance	83 events/yr	0.12	0.001	0.048	0.033	0.083	0.349	0.015	0.0011	0.0012	0.0022	0.0004	0.1378	0.0033	0.0002	0.0002	0.4527	0.0022	0.040	0.0812
Pump Preparation / Maintenance	104 pumps/yr					0.013							0.0130				0.013			
Line Preparation	208 lines/yr					0.052							0.052				0.052			
Storage Tank Cleaning for Inspection/Service	10 tanks/yr					0.188							0.188				0.188			
Dust Vacuum Systems	2,920 events/yr	0.365								0.002	0.002					0.002		0.002		
	TOTALS	0.546	0.002	0.108	0.073	0.446	0.382	0.0575	0.0031	0.0033	0.0043	0.0014	0.589	0.0224	0.0002	0.0004	1.3505	0.0042	0.084	0.08144
	MER tpy	5.000	5.000	5.000	5.000	5.000	N/A	0.050	0.1300	Supp.	0.0125	N/A	0.2500	0.1500	0.0375	0.0375	0.6000	0.0125	N/A	N/A
	LESS THAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A

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IX. Insignificant Activities

ID No.:	Description	Physical / Operating Data	Citation
	SCM Lines 1 and 2		
SV-240-81	Water/Glycol Storage Tank	2,600 gal	LAC 33:III.501.B.5.A.3
SV-210-51	Urea Mix Storage Tank	1,200 gal	LAC 33:III.501.B.5.A.3
SV-240-20	HMT[1] (Hexamethylenetetramine) Storage Tank	24,000 gal	LAC 33:III.501.B.5.A.10
SV-240-21	HMT[1] Storage Tank	24,000 gal	LAC 33:III.501.B.5.A.10
SV-240-54	HMT[1] Storage Tank	42,500 gal	LAC 33:III.501.B.5.A.10
SV-210-34	Catalyst Condensate Water Storage Tank	25,000 gal	LAC 33:III.501.B.5.A.10
SV-210-52	Catalyst Condensate Water Storage Tank	16,500 gal	LAC 33:III.501.B.5.A.10
SV-220-05	Catalyst Condensate Water Storage Tank	16,500 gal	LAC 33:III.501.B.5.A.10
SV-440-08	Catalyst Condensate Water Storage Tank	62,000 gal	LAC 33:III.501.B.5.A.10
SV-256	Caustic Tank	20,000 gal	LAC 33:III.501.B.5.B.40
SV-150-03	Diesel Storage Tank	1,000 gal	LAC 33:III.501.B.5.A.3
SV-200-11	Aqueous Nickel Nitrate Solution Storage Tank	15,000 gal	LAC 33:III.501.B.5.A.10
	SCM Line 3		
SV-610-39	Water/Glycol Storage Tank	3,000 gal	LAC 33:III.501.B.5.A.3
L3-GFSH	Portable Gas-fired Heaters (4)	100 MBTU/hr each	LAC 33:III.501.B.5.A.5
L3-NGSH	Natural-Gas Fired Space Heaters (10)	10 MBTU/hr each	LAC 33:III.501.B.5.A.5
SV-610-33	HMT[1] Storage Tank	31,700 gal	LAC 33:III.501.B.5.A.10
SV-610-34	HMT[1] Storage Tank	31,700 gal	LAC 33:III.501.B.5.A.10
SV-600-40	40% Tartaric Acid Solution Storage Tank	10,000 gal	LAC 33:III.501.B.5.A.10
SV-600-39	≤ 40% Tartaric Acid Solution Storage Tank	1,000 gal	LAC 33:III.501.B.5.A.10
	Reduction Unit/SAREX Unit		
SV-360-06	4% PEI Solution Tank Storage	470 gal	LAC 33:III.501.B.5.A.3
SV-360-07	4% PEI Solution Storage Tank	470 gal	LAC 33:III.501.B.5.A.3

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ID No.:	Description	Physical / Operating Data	Citation
	Utilities Area		
UA-01	Gasoline-fired Generators (4)*	7.4 hp each	LAC 33:III.501.B.5.A.5
UA-02	Gasoline-powered Pump (portable vacuum trailer)*	5.0 hp	LAC 33:III.501.B.5.A.5
UA-03	Gasoline-powered Pumps (2)*	2 hp each	LAC 33:III.501.B.5.A.5
UA-04	Miller 225 Gasoline-fired Welding Machines (10)*	16 hp each	LAC 33:III.501.B.5.A.5
UA-05	Diesel-fired Dredge*	121 hp	LAC 33:III.501.B.5.A.5
SV-140-82	Brine Storage Tank	100 gal	LAC 33:III.501.B.5.A.10
SV-140-83	Brine Storage Tank	200 gal	LAC 33:III.501.B.5.A.10
SV-140-87	Brine Storage Tank	200 gal	LAC 33:III.501.B.5.A.10
SV-140-180	Caustic Storage Tank	1,000 gal	LAC 33:III.501.B.5.B.40
	Laboratory/Maintenance/Miscellaneous		
LAB-02	(2) Laboratory Dust Collectors (baghouses) vents	N/A	LAC 33:III.501.B.5.A.6
LAB-03	Laboratory Hood (for gas cylinder containment area)	N/A	LAC 33:III.501.B.5.A.6
	Heaters for Warehouse and De-ionizer Buildings:		
WDB-01	Natural Gas Infrared Space Heater	300 MBTU/hr	LAC 33:III.501.B.5.A.5
WDB-02	Natural Gas Infrared Space Heaters (2)	225 MBTU/hr each	LAC 33:III.501.B.5.A.5
WDB-03	Natural gas Infrared Space Heaters (4)	100 MBTU/hr each	LAC 33:III.501.B.5.A.5
WDB-04	Diesel-fired Space Heater	150 MBTU/hr	LAC 33:III.501.B.5.A.5
MISC-01	Diesel-fired Fire Water Pump*	170 hp	LAC 33:III.501.B.5.A.5
MISC-02	Natural Gas-fired Generator (20 HP)*	20 hp	LAC 33:III.501.B.5.A.5
MISC-03	Gasoline-fired Sludge Pump (3 HP)*	3 hp	LAC 33:III.501.B.5.A.5
MISC-04	Gasoline-fired Pressure Washer*	5.5 hp	LAC 33:III.501.B.5.A.5
MISC-05	Natural Gasoline-fired Generator (4)*	10.73 hp each	LAC 33:III.501.B.5.A.5
	Heater for Emergency Response Room:		
ERR-01	Natural Gas-fired Space Heater	200 MBTU/hr	LAC 33:III.501.B.5.A.5
	Heaters for Maintenance Area:		
MA-01	Natural Gas-fired Space Heater	100 MBTU/hr	LAC 33:III.501.B.5.A.5
MA-02	Natural Gas-fired Space Heaters (2)	125 MBTU/hr each	LAC 33:III.501.B.5.A.5
MA-03	Natural Gas-fired Space Heater	200 MBTU/hr	LAC 33:III.501.B.5.A.5

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ID No.:	Description	Physical / Operating Data	Citation
	General Facility		
CDS-01	Catalyst Drying Shed	N/A	LAC 33:III.501.B.5.C.1
PWs	Parts Washers (for maintenance)	N/A	LAC 33:III.501.B.5.B.3
WTC-01	Flocculant (various containers)	N/A	LAC 33:III.501.B.5.B.8
WTC-02	Corrosion Inhibitor (various containers)	N/A	LAC 33:III.501.B.5.B.8
WTC-03	Boiler Water Treatment (various containers)	N/A	LAC 33:III.501.B.5.B.8
WTC-04	Biocides Agents/Scavengers (various containers)	N/A	LAC 33:III.501.B.5.B.8
SV-140-126	Spent Caustic Tank	10,000 gal	LAC 33:III.501.B.5.B.40
	Storage Tanks with Negligible Pollutant Emissions		
SV-61	Ion Exchange Vessels	600 gal	LAC 33:III.501.B.5.C.1
SV-89	Treated Water Tank	465 gal	LAC 33:III.501.B.5.C.1
SV-107	Caustic Tank	20,000 gal	LAC 33:III.501.B.5.B.40
SV-100	Evaporator Distillate Tank	60,000 gal	LAC 33:III.501.B.5.A.10
SV-140-171	Backwash Water Demineralizers	9,000 gal	LAC 33:III.501.B.5.C.1
SV-140-96	Recovered Groundwater	11,000 gal	LAC 33:III.501.B.5.C.1
SV-140-122	Steam Condensate Water Tank	1,200 gal	LAC 33:III.501.B.5.C.1
SV-210-04	Water Glass (Sodium Silicate)	6,500 gal	LAC 33:III.501. B.5.C.1
SV-210-07	Water Glass (Sodium Silicate)	6,500 gal	LAC 33:III.501. B.5.C.1
SV-210-35	SOL Tank	30,000 gal	LAC 33:III.501.B.5.A.10
SV-210-71	SOL Tank (Aluminium Hydroxychloride)	5,600 gal	LAC 33:III.501.B.5.A.10
SV-210-72	SOL Tank	6,700 gal	LAC 33:III.501. B.5.A.10
SV-240-24	Deionized Water Tank	4,500 gal	LAC 33:III.501. B.5.C.1
SV-240-76	Dilute SOL Tank	7,600 gal	LAC 33:III.501. B.5.A.10
SV-240-78	SOL Tank	14,000 gal	LAC 33:III.501.B.5.A.10
SV-240-79	SOL Tank	14,000 gal	LAC 33:III.501.B.5.A.10
SV-240-80	SOL Tank	14,000 gal	LAC 33:III.501.B.5.A.10
SV-273-59	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-60	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-61	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-62	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10

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ID No.:	Description	Physical / Operating Data	Citation
SV-273-63	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-64	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-65	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-66	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-67	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-68	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-69	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-70	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-71	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-72	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-73	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-273-74	Metal-bearing Process Water	4,720 gal	LAC 33:III.501.B.5.A.10
SV-280-06	Deionized Water	255,000 gal	LAC 33:III.501.B.5.C.1
SV-280-07	Raw Water	85,000 gal	LAC 33:III.501.B.5.C.1
SV-440-10	Ion-Exchange Vessel	2,400 gal	LAC 33:III.501.B.5.C.1
SV-440-11	Ion-Exchange Vessel	2,400 gal	LAC 33:III.501.B.5.C.1
SV-440-19	Demineralizer Feed Tank	1,300 gal	LAC 33:III.501.B.5.C.1
SV-600-10	SOL Tank	5,000 gal	LAC 33:III.501.B.5.A.10
SV-600-44	SOL Tank	25,000 gal	LAC 33:III.501.B.5.A.10
SV-600-45	SOL Tank	25,000 gal	LAC 33:III.501.B.5.A.10
SV-600-46	SOL Tank	25,000 gal	LAC 33:III.501.B.5.A.10
SV-600-21	Digester Recycle Water Tank	47,000 gal	LAC 33:III.501.B.5.A.10
SV-630-08	Metal-bearing Process Water	5,000 gal	LAC 33:III.501.B.5.A.10
SV-630-09	Metal-bearing Process Water	5,000 gal	LAC 33:III.501.B.5.A.10
SV-630-10	Metal-bearing Process Water	5,000 gal	LAC 33:III.501.B.5.A.10
SV-630-11	Metal-bearing Process Water	5,000 gal	LAC 33:III.501.B.5.A.10
SV-Diesel	Diesel Storage Tank (Contractor)	300 gal	LAC 33:III.501.B.5.A.3
SV-Diesel 2	Diesel Storage Tank (Portable)	300 gal	LAC 33:III.501.B.5.A.3
SV-Gas	Gasoline Storage Tank (Contractor)	200 gal	LAC 33:III.501.B.5.A.2
SV-140-175	Diesel Storage Tank	280 gal	LAC 33:III.501.B.5.A.3

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ID No.:	Description	Physical / Operating Data	Citation
SV-140-81	Neutral Oil Storage Tank	200 gal	LAC 33:III.501.B.5.A.3
SV-210-67	Neutral Oil Storage Tank	3,500 gal	LAC 33:III.501.B.5.A.3
	Inactive /Pressurized Storage Tanks		
SV-140-46	Recycle Water	31,500 gal	Inactive
SV-140-85	Out-of Service	5,900 gal	Inactive
SV-140-94	Recycle Water	3,300 gal	Inactive
SV-140-158	Storage Tank	440 gal	Inactive
SV-140-159	Aqueous Ammonia Storage[2]	30,000 gal	Pressurized tank
SV-201	Storage Tank	5,700 gal	Inactive
SV-224	Storage Tank	4,500 gal	Inactive
SV-280-28	Storage Tank	20,000 gal	Inactive
SV-265	Aqueous Ammonia[2]	30,000 gal	Pressurized tank
SV-280-105	Storage Tank	12,000 gal	Inactive
SV-280-108	Storage Tank	12,000 gal	Inactive

[1] HMT is a white dry crystalline material dissolved in water. Vendor (Borden Chemical) states that no emissions are expected at ambient temperatures; but that ammonia and formaldehyde could evolve at higher temperatures.

[2] Tank relieves to atmosphere at 25 psia.

* These items currently qualify as insignificant activities. Any replacement of these items by new engines that are affected sources under either NSPS IIII or JJJJ will require a permit modification and a removal of the sources from the insignificant activities list.

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LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Shreveport Plant
Agency Interest No.: 17846
UOP LLC
Shreveport, Caddo Parish, Louisiana

X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter															
		5[a]	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29*	51*	56	59*
UNF0001	Shreveport Plant	1	1	1						1					1	1	
GRP002	Desorbent Loading/Unloading Unit[1]											3					
GRP003	Sarex Unit[2]																
GRP004	Spent Catalyst Processing[3]																
GRP012	CTEC – Catalyst Trial Emissions CAP	1															
EQT002	110-01 - North Laboratory Fume Scrubber														1		
EQT003	110-02 - South Laboratory Fume Scrubber				1										1		
EQT004	140-CAP – Boiler Cap (140-3, 140-4)																
EQT006	140-03 - No. 3 Steam Boiler			1	1	3									2		
EQT007	140-04 - No. 4 Steam Boiler			1	1	3									2		
EQT008	140-05 - Recycle Water Unit Scrubber Stack										2			1	1		
EQT009	140-18A - Heavy Aromatic Storage Tank (SV-300-45)						2										
EQT010	140-18B - Heavy Aromatic Storage Tank (SV-300-45)						2										
EQT011	140-19 - Diethylbenzene Storage Tank (SV-300-43)						2								1		
EQT012	140-20 - Skim Oil Tank (SV-10)						2										

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ID No.:	Description	LAC 33:III.Chapter															
		5[a]	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29[c]	51[c]	56	59[c]
EQT013	140-21 - Skim Oil Tank (SV-6)						2										
EQT014	140-24 - Forming Oil Storage Tank (SV-140-97)						2										
EQT016	140-39 - Tank No. SV-140-39						3								1		
EQT018	140-05 - Tank No. SV-140-133						3										
EQT019	150-01-A – Repackaging Area Dust Collector				1										1		
EQT020	150-02 - No. 8 Warehouse Dust Collector				1										1		
EQT021	180-02 - Tank No. SV-150-4						1						2		1		
EQT022	190-05 - SCM Line 1 Dust Collector				1												
EQT023	200-02 - Neutral Oil Storage Tank (SV-29)						2										
EQT024	200-04 - Neutral Oil Storage Tank (SV-97)						2										
EQT025	200-05 - Neutral Oil Storage Tank (SV-240-113)						2										
EQT026	210-01 – A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)			1	1	3									1		
EQT029	240-09-A - Conical Evaporators Fume Scrubber				1										1		
EQT030	240-10 - Catalyst Dust Collector				1										1		
EQT031	240-11 - Phosphoric Acid Tank					3											

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ID No.:	Description	LAC 33:III.Chapter															
		5[▲]	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29[*]	51[*]	56	59[*]
EQT034	270-05 - Tank Farm Fume Scrubber														1		
EQT036	273-03 - Ball Mill Crusher Dust Collector				1												
EQT037	300-01 - p-Deb Drumming Tank (SV-300-1)						2										
EQT038	300-02 - p-Deb Drumming Tank (SV-300-2)						2										
EQT039	300-05 - p-Deb Storage Tank (SV-300-48)						2										
EQT040	300-06 - p-Deb Storage Tank (SV-300-47)						2										
EQT041	300-07 - Feed Storage Tank (SV-300-49)						2								1		
EQT042	300-12A - Hydrocarbon Storage Tank (SV-300-42)						2										
EQT043	300-12B - Hydrocarbon Storage Tank (SV-300-42)						2										
EQT046	300-16B - Railcar/Truck - Loading/Unloading							2							1		
EQT050	310-03 - No. 1 Unit Heater			1	1	3											
EQT051	310-04 - No. 1 Regeneration Heater			1	1	3											
EQT052	310-06 - Reduction Unit No. 2 Unit Heater			1	1	3											
EQT053	310-07 - Reduction Unit Baghouse System				1												
EQT054	310-09 - No. 2 Regeneration Heater			1	1	3											

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ID No.:	Description	LAC 33:III.Chapter															
		5*	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29*	51*	56	59*
EQT056	330-01-A - SCM Scrubber Stack				1						2			1	1		
EQT057	330-03 - Solids Feed Hopper Dust Collector				1												
EQT058	360-01 - Tray Dryer			3	3	3											
EQT059	360-03 - Material Handling System				1												
EQT060	410-01 - Tank Farm HCl Fume Scrubber														1		
EQT063	600-22 - Tank No. SV-600-22						2										
EQT064	SV-610-30 - Circulating Oil						2										
EQT065	SV-610-31 - Circulating Oil						2										
EQT066	SV-610-32 - Circulating Oil						2										
EQT067	SV-610-35 - Skim Oil						2										
EQT068	SV-600-19 - Tin Tetrachloride						3										
EQT069	SV-600-20 - Dilute Acidic Recycle						3										
EQT071	SV-440-17 - HCl						3								1		
EQT072	SV-440-18 - HCl						3								1		
EQT073	SV-200-1						2										

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.:	Description	LAC 33:III.Chapter															
		5[a]	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29[*]	51[*]	56	59[*]
EQT074	SV-200-2						2										
EQT075	SV-200-3						2										
EQT076	SV-200-4						2										
EQT077	SV-200-7						2										
EQT078	SV-200-10 - Neutral Oils						2										
EQT082	SV-210-59 - 50-80% Aqueous Ammonium Nitrate Solution						3										
EQT083	SV-290-32 - 36% HCl						3								1		
EQT084	SV-240-59 - 36% HCl						3								1		
EQT085	SV-280-29 - 36% HCl						3								1		
EQT086	SV-272-5 - 36% HCl						3								1		
EQT087	SV-272-6 - 36% HCl						3								1		
EQT088	SV-140-117 - Skim Oil						3										
EQT096	SCM Lines 1 and 2 Calciners			1	1	3											
EQT098	SCM Line 1 Drying Oven			1	1	3											
EQT103	SCM Line 3 Drying Oven			1	1	3											

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ID No.:	Description	LAC 33:III.Chapter															
		5[a]	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29*	51*	56	59*
EQT104	SCM Line 3 Calciner			1	1	3											
EQT111	620-03 - SCM Line 3 Heater Treater			1	1	3											
EQT113	140-06 - No. 5 Steam Boiler			1	1	3									2		
EQT115	210-01 B Line 1 SCR Vent			1	1	3									1		
EQT125	140-07 – Cummins GM3.0 L Emergency Generator			1	1	3									2		
EQT126	CT-01 – RWT/Reduction Cooling Tower				1												
EQT127	CT-02 – SCM Lines 1 and 2 Cooling Tower				1												
EQT128	CT-03 – SCM Line 3 Cooling Tower				1												
EQT130	SC-01 – Production of Specialty Coating Material										2				1		
EQT131	SC-02A – Production of Specialty Catalyst - Preparation				1												
EQT132	SC-02B – Production of Specialty Catalyst - Process				1										1		
FUG001	310-08 - Reduction Unit Fugitive Emissions														1		
FUG002	360-04 - Sarex Unit Fugitive Emissions				1												
FUG003	900-01 - Waste Water Pond Area Fugitives													1	1		
FUG004	900-02 - SCM Unit Area Fugitives				1									1	1		

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ID No.:	Description	LAC 33:III.Chapter															
		5*	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29*	51*	56	59*
FUG005	900-03 - New SCM Unit Area Fugitives (SCM Line 3)				1									1	1		
FUG006	900-04 - Boiler Sump Area Fugitives													1	1		
FUG007	900-05-A - Main Chemical Sump Area Fugitives													1	1		
FUG008	900-06 - Spent Catalyst Area Fugitives				1												
FUG009	900-08 - New SCM Sump Fugitives (SCM Line 3)													1	1		
RLP002	210-02 - Rotary Evaporators Stack														1		
RLP003	240-01 - Continuous SCM Oxidizer (No. 1 Stack)			1	1	3											
RLP004	240-02 - Continuous SCM Oxidizer (No. 2 Stack)			1	1	3											
RLP005	240-03 - Continuous SCM Oxidizer (No. 3 Stack)			1	1	3											
RLP006	240-04 - Continuous SCM Oxidizer (No. 4 Stack)			1	1	3											
RLP007	240-05 - Continuous SCM Oxidizer (No. 5 Stack)			1	1	3											
RLP008	240-06 - Continuous SCM Oxidizer (No. 6 Stack)			1	1	3											
RLP009	240-07 - Continuous SCM Oxidizer (No. 7 Stack)			1	1	3											
RLP010	240-08 - Continuous SCM Oxidizer (No. 8 Stack)			1	1	3											
RLP011	240-09-B – Line 2 SCR Vent			1	1	3									1		

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ID No.:	Description	LAC 33:III.Chapter															
		5*	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29*	51*	56	50*
RLP012	273-06 - Vault Vent														1		
RLP013	310-01 - Reduction Unit No. 1 Vent																
RLP014	310-02/310-10 - No. 1 & No. 2 Regeneration System Vents														1		
RLP015	310-05 - Reduction Unit No. 2 Vent																
RLP016	340-01 - Continuous SCM Drying Oven (No. 1 Stack)			1	1	3											
RLP017	340-02 - Continuous SCM Drying Oven (No. 2 Stack)			1	1	3											
RLP018	340-03 - Continuous SCM Drying Oven (No. 3 Stack)			1	1	3											
RLP019	600-01 - Aluminum Digester Vent														1		
RLP020	620-01 - Drying/Calcining Dust Collection Stack				1												
RLP021	620-02 - Main Plant Stack				1						2			1	1		
RLP022	630-01 - Oxidizer Caustic Scrubber Stack				1										1		
RLP023	630-02 - Oxidizer Flue Stack, Zone No. 1			1	1	3											
RLP024	630-03 - Oxidizer Flue Stack, Zones No. 1 and No. 2			1	1	3											
RLP025	630-04 - Oxidizer Flue Stack, Zones No. 2 and No. 3			1	1	3											
RLP026	630-05 - Finished Catalyst Dust Collection Vent				1												

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ID No.:	Description	LAC 33:III.Chapter															
		5▲	9	11	13	15	2103	2107	2111	2113	2115	2121	2131	29*	51*	56	59*
RLP027	630-06 - Oxidizer Flue Stack, Zone No. 3			1	1	3											

* The regulations indicated above are State Only regulations.
▲ All LAC 33:III Chapter 5 citations are federally enforceable including LAC 33:III.501.C.6 citations, except when the requirement found in the "Specific Requirements" report specifically states that the regulation is State Only.
[1]Desorbent Loading/Unloading Unit Includes emission points 140-18A, 140-18B, 140-19, 300-01, 300-02, 300-05, 300-06, 300-07, 300-12B, 300-16B,.
[2]Sarex Unit includes emission points 360-01, 360-03, 360-04.
[3]Spent Catalyst Processing includes 273-03 and 900-06.

KEY TO MATRIX

1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply at a future date.

3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	68	82
UNF0001	Shreveport Plant	1										1	1				2			3		3		3		2	1
GRP002	Desorbent Loading/Unloading													1	1	1						2					
GRP003	Sarex Unit									3																	
GRP004	Spent Catalyst Processing																				1						
GRP012	CTEC – Catalyst Trial Emissions CAP																										
EQT002	110-01 - North Laboratory Fume Scrubber																								3		
EQT003	110-02 - South Laboratory Fume Scrubber																								3		
EQT004	140-CAP - Boilers (140-3, 140-4)																										
EQT006	140-03 - No. 3 Steam Boiler		3	3	2																						
EQT007	140-04 - No. 4 Steam Boiler		3	3	2																						
EQT008	140-05 - Recycle Water Unit Scrubber Stack																								3		
EQT009	140-18A - Heavy Aromatic Storage Tank (SV-300-45)					3	3	3														3					
EQT010	140-18B - Heavy Aromatic Storage Tank (SV-300-45)					3	3	3														3					
EQT011	140-19 - Diethylbenzene Storage Tank (SV-300-43)					3	3	3														3					
EQT012	140-20 - Skim Oil Tank (SV-10)					3	3	3																			

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ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	[illegible]	82
EQT013	140-21 - Skim Oil Tank (SV-6)					3	3	3																			
EQT014	140-24 - Forming Oil Storage Tank (SV-140-97)					3	3	2																			
EQT016	140-39 - Tank No. SV-140-39																										
EQT018	140-05 - Tank No. SV-140-133					3	3	3																			
EQT019	150-01-A – Repackaging Area Dust Collector																								3		
EQT020	150-02 - No. 8 Warehouse Dust Collector																								3		
EQT021	180-02 - Tank No. SV-150-4					3	3	3																			
EQT022	190-05 - SCM Line 1 Dust Collector																								3		
EQT023	200-02 - Neutral Oil Storage Tank (SV-29)					3	3	3																			
EQT024	200-04 - Neutral Oil Storage Tank (SV-97)					3	3	3																			
EQT025	200-05 - Neutral Oil Storage Tank (SV-240-113)					3	3	2																			
EQT026	210-01-A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)																										
EQT029	240-09-A - Conical Evaporators Fume Scrubber																								1		
EQT030	240-10 - Catalyst Dust Collector																								1		
EQT031	240-11 - Phosphoric Acid Tank					3	3	3																			

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ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	68	82
EQT034	270-05 - Tank Farm Fume Scrubber																								3		
EQT036	273-03 - Ball Mill Crusher Dust Collector																								3		
EQT037	300-01 - p-Deb Drumming Tank (SV-300-1)					3	3	3														3					
EQT038	300-02 - p-Deb Drumming Tank (SV-300-2)					3	3	3														3					
EQT039	300-05 - p-Deb Storage Tank (SV-300-48)					2	3	3														3					
EQT040	300-06 - p-Deb Storage Tank (SV-300-47)					2	3	3														3					
EQT041	300-07 - Feed Storage Tank (SV-300-49)					2	3	3														3					
EQT042	300-12A - Hydrocarbon Storage Tank (SV-300-42)					3	3	3																			
EQT043	300-12B - Hydrocarbon Storage Tank (SV-300-42)					3	3	3														3					
EQT046	300-16B - Railcar/Truck -- Loading / Unloading																										
EQT050	310-03 - No. 1 Unit Heater																										
EQT051	310-04 - No. 1 Regeneration Heater																										
EQT052	310-06 - Reduction Unit No. 2 Unit Heater																										
EQT053	310-07 - Reduction Unit Baghouse System																								3		
EQT054	310-09 - No. 2 Regeneration Heater																										
EQT056	330-01-A - SCM Scrubber Stack								3																1		

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ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	68	82
EQT057	330-03 - Solids Feed Hopper Dust Collector																								3		
EQT058	360-01 - Tray Dryer																										
EQT059	360-03 - Material Handling System																								3		
EQT060	410-01 - Tank Farm HCl Fume Scrubber																								3		
EQT063	600-22 - Tank No. SV-600-22					3	3	2																			
EQT064	SV-610-30 - Circulating Oil					3	3	3																			
EQT065	SV-610-31 - Circulating Oil					3	3	3																			
EQT066	SV-610-32 - Circulating Oil					3	3	3																			
EQT067	SV-610-35 - Skim Oil					3	3	3																			
EQT068	SV-600-19 - Tin Tetrachloride																										
EQT069	SV-600-20 - Dilute Acidic Recycle																										
EQT071	SV-440-17																										
EQT072	SV-440-18														-												
EQT073	SV-200-1					3	3	3																			
EQT074	SV-200-2					3	3	3																			

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ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	[illegible]	82
EQT075	SV-200-3					3	3	3																			
EQT076	SV-200-4					3	3	3																			
EQT077	SV-200-7					3	3	3																			
EQT078	SV-200-10 - Neutral Oils					3	3	3																			
EQT082	SV-210-59 - 50-80% Aqueous Ammonium Nitrate Solution																										
EQT083	SV-290-32 - 36% HCl					3	3	3																			
EQT084	SV-240-59 - 36% HCl					3	3	3																			
EQT085	SV-280-29 - 36% HCl					3	3	3																			
EQT086	SV-272-5 - 36% HCl					3	3	3																			
EQT087	SV-272-6 - 36% HCl					3	3	3																			
EQT088	SV-140-117 - Skim Oil					3	3	3																			
EQT111	620-03 - SCM Line 3 Heater Treater																										
EQT113	140-06 - No. 5 Steam Boiler				1																						
EQT115	210-01-B – Line 1 SCR Vent																								1		

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ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	68	82
EQT125	140-07 – Cummins GM3.0 L Emergency Generator										1												1				
EQT126	CT-01 – RWT/Reduction Cooling Tower																			3							
EQT127	CT-02 – SCM Lines 1 and 2 Cooling Tower																			3							
EQT128	CT-03 – SCM Line 3 Cooling Tower																			3							
EQT130	SC-01 – Production of Specialty Coating Material																										
EQT131	SC-02A – Production of Specialty Catalyst – Preparation																										
EQT132	SC-02B – Production of Specialty Catalyst – Process																										
FUG001	310-08 - Reduction Unit Fugitive Emissions																										
FUG002	360-04 - Sarex Unit Fugitive Emissions																										
FUG003	900-01 - Waste Water Pond Area Fugitives																										
FUG004	900-02 - SCM Unit Area Fugitives																										
FUG005	900-03 - New SCM Unit Area Fugitives (SCM Line 3)																										
FUG006	900-04 - Boiler Sump Area Fugitives																										

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	[illegible]	82
FUG007	900-05-A - Main Chemical Sump Area Fugitives																										
FUG008	900-06 - Spent Catalyst Area Fugitives																										
FUG009	900-08 - New SCM Sump Fugitives (SCM Line 3)																										
RLP002	210-02 - Rotary Evaporators Stack																										
RLP003	240-01 - Continuous SCM Oxidizer (No. 1 Stack)																										
RLP004	240-02 - Continuous SCM Oxidizer (No. 2 Stack)																										
RLP005	240-03 - Continuous SCM Oxidizer (No. 3 Stack)																										
RLP006	240-04 - Continuous SCM Oxidizer (No. 4 Stack)																										
RLP007	240-05 - Continuous SCM Oxidizer (No. 5 Stack)																										
RLP008	240-06 - Continuous SCM Oxidizer (No. 6 Stack)																										
RLP009	240-07 - Continuous SCM Oxidizer (No. 7 Stack)																										
RLP010	240-08 - Continuous SCM Oxidizer (No. 8 Stack)																										

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	68	82
RLP011	240-09-B – Line 2 SCR Vent																								1		
RLP012	273-06 - Vault Vent																										
RLP013	310-01 - Reduction Unit No. 1 Vent																										
RLP014	310-02/310-10 - No. 1 & No. 2 Regeneration System Vents																										
RLP015	310-05 - Reduction Unit No. 2 Vent																										
RLP016	340-01 - Continuous SCM Drying Oven (No. 1 Stack)																										
RLP017	340-02 - Continuous SCM Drying Oven (No. 2 Stack)																										
RLP018	340-03 - Continuous SCM Drying Oven (No. 3 Stack)																										
RLP019	600-01 - Aluminum Digester Vent																										
RLP020	620-01 - Drying/Calcining Dust Collection Stack																								1		
RLP021	620-02 - Main Plant Stack								3																		
RLP022	630-01 - Oxidizer Caustic Scrubber Stack																								1		
RLP023	630-02 - Oxidizer Flue Stack, Zone No. 1																										

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X. Table 1. Applicable Louisiana and Federal Air Quality Requirements

ID No.	Description	40 CFR 60 NSPS										40 CFR 61						40 CFR 63 NESHAP						40 CFR			
		A	D	Db	Dc	K	Ka	Kb	UUU	VVV	JJJJ	A	M	J	V	BB	FF	A	G	Q	DD	EEEE	ZZZZ	52	64	68	82
RLP024	630-03 - Oxidizer Flue Stack, Zone No. 1 and Zone No. 2																										
RLP025	630-04 - Oxidizer Flue Stack, Zone No. 2 and Zone No. 3																										
RLP026	630-05 - Finished Catalyst Dust Collection Vent																								1		
RLP027	630-06 - Oxidizer Flue Stack, Zone No. 3																										

KEY TO MATRIX

1 - The regulations have applicable requirements that apply to this particular emission source.
- The emission source may have an exemption from control stated in the regulation. The emission source may not have to be controlled but may have monitoring, recordkeeping, or reporting requirements.

2 - The regulations have applicable requirements that apply to this particular emission source but the source is currently exempt from these requirements due to meeting a specific criterion, such as it has not been constructed, modified or reconstructed since the regulations have been in place. If the specific criteria changes the source will have to comply future date.

3 - The regulations apply to this general type of emission source (i.e. vents, furnaces, towers, and fugitives) but do not apply to this particular emission source.

Blank – The regulations clearly do not apply to this type of emission source.

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
SHREVEPORT PLANT	UNF0001	Prevention of Significant Deterioration of Air Quality [40 CFR 52.21/LAC 33:III.509]	**DOES NOT APPLY** – The emission increases requested in this application are less than the significance levels defined in LAC 33:III.509.B. UOP Shreveport Plant does not have any PSD permits.
		Chemical Accident Prevention and Minimization of Consequences [40 CFR 68/LAC 33:III Chapter 59]	**EXEMPT** – No regulated substances above the applicable thresholds.
		40 CFR 61 - Subpart FF - Standards for Benzene Waste Operations [40 CFR 61.340]	**EXEMPT** – Total mass of benzene in facility waste is less than 1 Mg/yr. In accordance with 40 CFR 61.357, an initial report was submitted to the EPA in April 1993 that summarized the regulatory status of each waste stream subject to 61.342.
		40 CFR 63 - Subpart Q - NESHAP for Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63.400]	**DOES NOT APPLY** – The use of chromium compounds was phased out before 1991.
		40 CFR 63 – Subpart EEEE - National Emission Standard for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline)	**DOES NOT APPLY** – Does not store/transfer, and/or distribute any organic liquids that contain 5% or greater by weight of the organic HAPs listed in Table 1 of Subpart EEEE. [40 CFR 63.2406].

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
DESORBENT LOADING/ UNLOADING UNIT	GRP0002 or EQT009, EQT010, EQT011, EQT037, EQT038, EQT039, EQT040, EQT041, EQT043, and EQT046	Control of Emission of Organic Compounds – Fugitive Emission Control [LAC 33:III.2121]	**DOES NOT APPLY** – There are less than 100 valves in liquid service in this unit. [LAC 33:III.2121.C.4(j)]
		40 CFR 61 - Subpart J - National Emission Standard for Equipment Leaks (Fugitive Emission Sources) of Benzene [40 CFR 61.112]	**EXEMPT** – There is equipment in this unit that is "in benzene service"; however, the unit meets exemption 61.110(c)(2) which states that "any equipment in benzene service that is located at a plant site designed to produce or use less than 1,102 tons of benzene per year is exempt from the requirements of 61.112. If an owner or operator applies for one of the exemptions in this paragraph the owner or operator shall maintain records as required in 61.246(i)
		40 CFR 61 - Subpart V - National Emission Standard for Equipment Leaks (Fugitive Emission Sources) [40 CFR 61.242]	**EXEMPT** – There is equipment in this unit that is "in volatile hazardous air pollutant VHAP service"; however, the unit qualifies as an exemption under 61.110(c)(2). Maintain records as required in 61.246(i)
		40 CFR 61 - Subpart BB – National Emission Standard for Benzene Emissions from Benzene Transfer Operations [40 CFR 61.300]	**EXEMPT** – Any affected facility under paragraph (a) of this section which loads only liquid containing less than 70 weight-percent benzene is exempt from the requirements of this subpart, except for the recordkeeping and reporting requirements in 61.305(i). Recordkeeping consists of the weight percent of benzene loaded, the type of vessel loaded (i.e., tank truck, railcar, or marine vessel), and the annual amount of benzene loaded into each type of vessel [40 CFR 61.305 (i)].

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
SAREX UNIT	GRP0003 or EQT058, EQT059, and FUG002	40 CFR 60 - Subpart VVV - Polymeric Coating of Supporting Substrates Facilities [40 CFR 60.740]	**DOES NOT APPLY** – Does not meet the definition given in 60.740. Polymeric coating is performed in the Sarex Unit; however, the polymer used in the unit is polyethyleneimine (PEI) which is a waterborne coating of less than 9% volatiles. In addition, the process is not a web coating process.
SPENT CATALYST PROCESSING	GRP0004 or EQT036 FUG008	40 CFR 63 - Subpart DD - NESHAP from Off-Site Waste and Recovery Operations [40 CFR 63.680]	**EXEMPT** – Total annual quantity of HAP that is contained in the spent catalyst (off-site material) received at this unit is less than 1 Mg/yr. Recordkeeping requirements only per 40 CFR 63.680(d)(1) through (3).
Boilers	EQT006 EQT007	LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]
		40 CFR 60 - Subpart D - Standards of Performance for Fossil Fuel-Fired Steam Generators. [40 CFR 60.40]	**DOES NOT APPLY** – Boilers have a maximum heat input less than 250 MMBTU/hr. [40 CFR 60.40(a)]
		40 CFR 60 - Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40(b)]	**DOES NOT APPLY** – Boilers have a maximum heat input less than 100 MMBTU/hr. [40 CFR 60.40(b)(a)]
		40 CFR 60 - Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40c]	**EXEMPT** – No construction, modification, or reconstruction commenced after 6/9/89. [40 CFR 60.40c(a)]

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Boiler	EQT113	LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]
		40 CFR 60 - Subpart D - Standards of Performance for Fossil Fuel-Fired Steam Generators. [40 CFR 60.40]	**DOES NOT APPLY** – Boilers have a maximum heat input less than 250 MMBTU/hr. [40 CFR 60.40(a)]
		40 CFR 60 - Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units [40 CFR 60.40(b)]	**DOES NOT APPLY** – Boilers have a maximum heat input less than 100 MMBTU/hr. [40 CFR 60.40(b)(a)]
Scrubbers	EQT002, EQT003, EQT008, EQT034, and EQT060	40 CFR 64 – Compliance Assurance Monitoring. [40 CFR 64]	**DOES NOT APPLY** – The pre-control emissions from these units are less than major source thresholds. [40 – CFR 64.2(a)(3)]
Recycle Water Unit Scrubber Stack	EQT008	Control of Emissions of Organic Compounds - Waste Gas Disposal [LAC 33:III.2115]	**EXEMPT** – The vent gas stream exiting this emission point has concentration of VOC less than 0.44 psia, true partial pressure (30,000 ppm). [LAC 33:III.2115.H.1.d] This emission point has been stack tested. The testing results were submitted to the LDEQ in April 1993.
Dust Collector	EQT019, EQT020, EQT022, EQT036, EQT053, EQT057, and EQT059	40 CFR 64 – Compliance Assurance Monitoring. [40 CFR 64]	**DOES NOT APPLY** – The pre-control emissions from these units are less than major source thresholds. [40 – CFR 64.2(a)(3)]. *The reported 1.69 tons/yr of PM10for EQT019 is the pre-control emission rate. The facility did not take credit for the dust collector reduction efficiency (Refer to the EIQ and calculation sheet)

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Organic Liquid Storage Vessels	EQT009, EQT010, EQT011, EQT012, EQT013, EQT023, EQT024, EQT037, EQT038, EQT042, and EQT043,	Control of Emission of Organic Compounds - Storage [LAC 33:III.2103]	**EXEMPT** – Does not store VOCs with vapor pressures ≥ 1.5 psia. [LAC 33:III.2103.A]
		40 CFR 60 – Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. [40 CFR 60.110]	**DOES NOT APPLY** – Storage vessel was not constructed, reconstructed, or modified after June 11, 1973 and prior to May 19, 1978.
		40 CFR 60 – Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. [40 CFR 60.110a]	**DOES NOT APPLY** – Storage vessel was not constructed, reconstructed, or modified after May 18, 1978 and prior to July 23, 1984.
		40 CFR 60 - Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110]	**DOES NOT APPLY** – Storage vessel was not constructed, reconstructed, or modified after July 23, 1984.

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Organic Liquid Storage Vessels	EQT014, EQT025, and EQT063	Control of Emission of Organic Compounds – Storage. [LAC 33:III.2103]	**EXEMPT** – No person shall place, store, or hold in any stationary tank, reservoir, or other container of more than 250 gallons and up to 40,000 gallons capacity any VOC, having a vapor pressure of ≥ 1.5 psia, unless such tank, reservoir, or other container is equipped with a submerged fill pipe or a vapor loss control system. Does not store VOCs with vapor pressures ≥ 1.5 psia. [LAC 33:III.2103.A]
		40 CFR 60 – Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. [40 CFR 60.110]	**DOES NOT APPLY** – Storage vessel was constructed, reconstructed or modified after May 19, 1978. [40 CFR 60.110a]
		40 CFR 60 – Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. [40 CFR 60.110a]	**DOES NOT APPLY** – Storage vessel was constructed, reconstructed or modified after July 23, 1984. [40 CFR 60.110a]
		40 CFR 60 - Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels [40 CFR 60.110b]	**EXEMPT** – Storage vessels have a vapor pressure less than 0.5 psi.

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Organic Liquid Storage Vessels	EQT018, and EQT088	Control of Emission of Organic Compounds - Storage [LAC 33:III.2103]	**DOES NOT APPLY** – Storage container holds less than 250 gallo LAC 33:III.2103.A]
		40 CFR 60 – Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. [40 CFR 60.110]	**DOES NOT APPLY** – Storage vessel capacity is less than 40,000 gallons. [40 CFR 60.110]
		40 CFR 60 – Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. [40 CFR 60.110a]	**DOES NOT APPLY** – Storage vessel capacity is less than 40,000 gallons. [40 CFR 60.110(a)]
		40 CFR 60 - Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110]	**DOES NOT APPLY** – The affected facility to which this subpart applies is each storage vessel with a capacity greater than 19,813 gallons that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. The storage vessel has a capacity less than 19,813 gallons. [40 CFr 60.110b]

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Gasoline Storage Vessel	EQT021	LAC 33:III. Chapter 21 - Subchapter F. Gasoline Handling - Filling of Gasoline Storage Vessels [LAC 33:III.2131]	**EXEMPT** – Affected facilities in attainment or unclassified areas are exempt from the requirements of LAC 33:III.2131.A. This storage tank is located in Caddo Parish with a throughput of less than 500,000 gals/yr and less than or equal 42,000 gallons per 30-day rolling average. [LAC 33:III.2131.D]
		40 CFR 60 - Subpart K – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978. [40 CFR 60.110]	**DOES NOT APPLY** – Storage vessel was constructed, reconstructed or modified after May 19, 1978.
		40 CFR 60 - Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. [40 CFR 60.110a]	**DOES NOT APPLY** – Storage vessel was constructed, reconstructed or modified after July 23, 1984.
		40 CFR 60 - Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110]	**DOES NOT APPLY** – The affected facility to which this subpart applies is each storage vessel with a capacity greater than 19,813 gallons that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984. The storage vessel is less than 19,813 gallons.

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Storage Vessels	EQT016, EQT031, EQT068, EQT069, EQT071, EQT072, EQT082, EQT083, EQT084, EQT085, EQT086, and EQT087	Control of Emission of Organic Compounds - Storage [LAC 33:III.2103]	**DOES NOT APPLY** – Storage tank does not store organic liquids.
Organic Liquid Storage Vessels	EQT039, EQT040, and EQT041,	Control of Emission of Organic Compounds - Storage [LAC 33:III.2103]	**EXEMPT** – Does not store VOCs with vapor pressures ≥ 1.5 psia. [LAC 33:III.2103.A]
		40 CFR 60 - Subpart K – Standards of Performance for Petroleum Liquid Storage Vessels [40 CFR 60.110]	**EXEMPT** – Storage vessels have a vapor pressure less than 1.0 psia.
		40 CFR 60 – Subpart Ka – Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984. [40 CFR 60.110a]	**DOES NOT APPLY** – Storage vessel was constructed, reconstructed or modified prior to May 19, 1978.[40 CFR 60.110a]
		40 CFR 60 - Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984. [40 CFR 60.110]	**DOES NOT APPLY** – Storage vessel was constructed, reconstructed or modified prior to May 19, 1978.[40 CFR 60.110b]

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Process Vessels	EQT064, EQT065, EQT066, EQT067, EQT073, EQT074, EQT075, EQT076, EQT077, and EQT078	Control of Emission of Organic Compounds - Storage [LAC 33:III.2103]	**DOES NOT APPLY** – These vessels are flow-through process vessels and are not operated as storage vessels. LAC 33:III.2103.A]
		40 CFR 60 - Subpart K – Standards of Performance for Volatile Organic Liquid Storage Vessels	**DOES NOT APPLY** – These vessels are flow-through process vessels and are not operated as storage vessels. [40 CFR 60.111b]
		40 CFR 60 - Subpart Ka – Standards of Performance for Volatile Organic Liquid Storage Vessels	**DOES NOT APPLY** – These vessels are flow-through process vessels and are not operated as storage vessels. [40 CFR 60.111b]
		40 CFR 60 - Subpart Kb – Standards of Performance for Volatile Organic Liquid Storage Vessels	**DOES NOT APPLY** – These vessels are flow-through process vessels and are not operated as storage vessels. [40 CFR 60.111b]
Organic Loading /Unloading	EQT046	Control of Emission of Organic Compounds - Loading [LAC 33:III.2107]	**DOES NOT APPLY** – Loading of VOCs with vapor pressures ≥ 1.5 psia is not performed at this loading area. [LAC 33:III.2107.A]
Tray Dryer	EQT058	LAC 33:III. Chapter 11 – Control of Emissions of Smoke	**DOES NOT APPLY** – the source is a steam jacketed vessel and does not involve any and combustion nor does it release any smoke.
		LAC 33:III. Chapter 13 – Emission Standards for Particulate Matter	**DOES NOT APPLY** – the source is a steam jacketed vessel and does not involve any and combustion nor does it emit any particulate matter.
		LAC 33:III. Chapter 15 – Emission Standards for Sulfur Dioxide	**DOES NOT APPLY** – the source is a steam jacketed vessel and does not involve any and combustion nor does it emit any sulfur dioxide.

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Engine	EQT125	Comprehensive Toxic Air Pollutant Emission Control Program [LAC 33:III.Chapter 51]	**EXEMPT** – Emissions of air toxics pollutants are generated from combustion of virgin fuels. [5105.B.3]
		LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]
Production of Specialty Coating Material – SC-01	EQT130	Control of Emissions of Organic Compounds - Waste Gas Disposal [LAC 33:III.2115]	**EXEMPT** – The vent stream exiting this emission point has a weight of total VOCs of less than 100 pounds in any continuous 24-hour period. [LAC 33:III.2115.H.1.c]
Cooling Towers	EQT126, EQT127, and EQT128	40 CFR 63 – Subpart Q – NESHAP for Chromium Emissions from Industrial Process Cooling Towers [40 CFR 63]	**DOES NOT APPLY** – Use of chromium compounds was phased out before 1991. [CFR 63.400]
Class III TAP Sources	EQT002, EQT008, EQT016, EQT026, EQT034, EQT071, EQT072, EQT083 thru ERQT087, EQT132, FUG001, FUG003 thru FUG007, FUG009, RLP002, RLP012	Comprehensive Toxic Air Pollutant Emission Control Program; Maximum Achievable Control Technology (MACT) Requirements. [LAC 33:III.Chapter 51]	**DOES NOT APPLY** – Class III TAP. No MACT is required according to LAC 33.III.5109.A.
Heaters	EQT050, EQT051, EQT052, EQT054, and EQT111	LAC 33:III.Chapter 15. Emission Standards for Sulfur Dioxide.	**DOES NOT APPLY**– No point source at the plant emits or has the potential to emit 5 tons per year or more of sulfur dioxide. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]

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SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Continuous SCM Oxidizers Stacks No. 1 through 8	RLP003, RLP004, RLP005, RLP006, RLP007, RLP008, RLP009, and RLP010	LAC 33:III.Chapter 15. Emission Standards for Sulfur Dioxide.	**DOES NOT APPLY**– No point source at the plant emits or has the potential to emit 5 tons per year or more of sulfur dioxide. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]
Continuous SCM Drying Ovens	RLP016, RLP017, and RLP018	LAC 33:III.Chapter 15. Emission Standards for Sulfur Dioxide.	**DOES NOT APPLY**– No point source at the plant emits or has the potential to emit 5 tons per year or more of sulfur dioxide. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]
Oxidizers	RLP023, RLP024, RLP025, and RLP027	LAC 33:III.Chapter 15. Emission Standards for Sulfur Dioxide.	**DOES NOT APPLY**– No point source at the plant emits or has the potential to emit 5 tons per year or more of sulfur dioxide. [LAC 33:III.1502.A.3]
		LAC 33:III.Chapter 51 – Comprehensive Toxic Air Pollutant Emission Control Program	**EXEMPT** – Emissions of toxic air pollutants (TAPs) result from the combustion of virgin fossil fuels. [LAC 33:III.5105.B.3.a]
SCM line 3, Calciner and Line 2 SCR Vent	EQT104 and RLP011	LAC 33:III.Chapter 15. Emission Standards for Sulfur Dioxide.	**DOES NOT APPLY**– No point source at the plant emits or has the potential to emit 5 tons per year or more of sulfur dioxide. [LAC 33:III.1502.A.3]

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

UOP LLC - Shreveport Plant
Agency Interest No.: 17846
UOP LLC
Shreveport, Caddo Parish, Louisiana

XI. Table 2. Explanation for Exemption Status or Non-Applicability of a Source

SOURCE TYPE	EMISSION POINT ID	APPLICABLE REQUIREMENT	COMPLIANCE METHOD/PROVISION
Process Vent/ Cyclone/ Scrubber *(emissions from natural gas burners, calcining ovens, drying ovens, inorganic and organic fumes)*	EQT056, RLP021	Control of Emissions of Organic Compounds - Waste Gas Disposal [LAC 33:III.2115]	**EXEMPT** – The vent gas streams exiting these two emission points have concentrations of VOCs less than 0.44 psia, true partial pressure (30,000 ppm). [LAC 33:III.2115.H.1.d] These emission points have been stack tested. The testing results were submitted to the LDEQ in December 1992 (for 330-1-A) and in April 1993 (for both 330-1-A and 620-2).
		40 CFR 60 - Subpart UUU - Standards of Performance for Calciners and Dryers in Mineral Industries [40 CFR 60.730]	**DOES NOT APPLY** – UOP is not a mineral industry. [40 CFR 60.731] Per an applicability determination by EPA on 9/12/1996, the UOP facility does not process mineral alumina, but does process synthetic alumina which does not apply. The alumina processed at the facility is produced synthetically using a combination of pure aluminum, hydrochloric acid, and/or aluminum hydroxychloride solution as the raw feed materials. (The mineral industry produces alumina from bauxite ore.)

The above table provides explanation for both the exemption status or non-applicability of a source cited by 1, 2 or 3 in the matrix presented in Section X (Table 1) of this permit.

General Information

AI ID: 17846 UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Also Known As:

ID	Name	User Group	Start Date
0500-00020	CDS Number	CDS Number	08-05-2002
36-3594439	Federal Tax ID	Federal Tax ID	11-21-1999
LAD057109449	UOP LLC - Shreveport Plant	Hazardous Waste Notification	08-18-1980
PC	GPRA Baselines	Hazardous Waste Permitting	10-01-1997
01063	UOP	Inactive & Abandoned Sites	11-01-1979
	Universal Oil Products	Inactive & Abandoned Sites	11-01-1979
LAR05N129	LPDES #	LPDES Permit #	10-24-2001
GL-518	Radiation General License	Radiation License Number	08-09-2000
LA-2229-L01	Radioactive Material License	Radiation License Number	04-15-1998
4367	X-Ray Registration Number	Radiation X-ray Registration Number	11-21-1999
GD-017-0813	SW Generator ID#	Solid Waste Facility No.	04-30-2001
38793	UOP	TEMPO Merge	07-15-2001
43706	UOP Shreveport Plant	TEMPO Merge	06-20-2001
45117	UOP	TEMPO Merge	06-20-2001
45260	UOP Shreveport Plant	TEMPO Merge	06-20-2001
47729	UOP Inc	TEMPO Merge	01-07-2002
47779	UOP Inc Process Division	TEMPO Merge	06-11-2002
71009PNCHIGHW	TRI #	Toxic Release Inventory	07-09-2004
14581	Waste Tires	Waste Tire Facility ID Number	07-23-2008

Physical Location: 8725 Old Mooringsport Rd
Shreveport, LA 71107

Main FAX: 3189292716
Main Phone: 3189295426

Mailing Address: 8725 Old Mooringsport Rd
Shreveport, LA 71107

Location of Front Gate: 32.624931 latitude, -93.919569 longitude, Coordinate Method: Lat.\Long. - DMS, Coordinate Datum: NAD83

Related People:

Name	Mailing Address	Phone (Type)	Relationship
William Capon	8725 Old Mooringsport Rd Shreveport, LA 71107	3189295407 (WP)	Responsible Official for
William Capon	8725 Old Mooringsport Rd Shreveport, LA 71107	william.capon@hone	Responsible Official for
William Capon	8725 Old Mooringsport Rd Shreveport, LA 71107	3189295407 (WP)	Emission Inventory Contact for
William Capon	8725 Old Mooringsport Rd Shreveport, LA 71107	william.capon@hone	Emission Inventory Contact for
William Capon	8725 Old Mooringsport Rd Shreveport, LA 71107	3189295407 (WP)	Air Designated Representative for
William Capon	8725 Old Mooringsport Rd Shreveport, LA 71107	william.capon@hone	Air Designated Representative for
Eileen Cronin	8725 Old Mooringsport Road Shreveport, LA 71107	eileen.cronin@hone	Emission Inventory Contact for

TPOR0148

General Information

AI ID: 17846 UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Related People:

Name	Mailing Address	Phone (Type)	Relationship
Eileen Cronin	8725 Old Mooringsport Road Shreveport, LA 71107	3189292716 (WF)	Emission Inventory Contact for
Eileen Cronin	8725 Old Mooringsport Road Shreveport, LA 71107	3189295463 (WP)	Emission Inventory Contact for
Roger Hale	PO Box 21566 Shreveport, LA 71120	3189295426 (WP)	Waste Tires Contact for
Sandy Luerssen	PO Box 21566 Shreveport, LA 711201566	3189293521 (WP)	Accident Prevention Billing Party for
Michael Nance	PO Box 21566 Shreveport, LA 711201566	3189295448 (WP)	Accident Prevention Contact for
Robert Newberry	PO Box 21566 Shreveport, LA 711201566	3189295414 (WP)	Air Designated Representative for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	Don.Richardson@U	Air Designated Representative for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295665 (WF)	Air Designated Representative for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295422 (WP)	Air Designated Representative for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	Don.Richardson@U	Haz. Waste Billing Party for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295665 (WF)	Haz. Waste Billing Party for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295422 (WP)	Haz Waste Billing Party for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	Don.Richardson@U	Radiation Contact For
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295665 (WF)	Radiation Contact For
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295422 (WP)	Radiation Contact For
Don Richardson	PO Box 21566 Shreveport, LA 711201566	Don.Richardson@U	Radiation Safety Officer for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295665 (WF)	Radiation Safety Officer for
Don Richardson	PO Box 21566 Shreveport, LA 711201566	3189295422 (WP)	Radiation Safety Officer for
Larry Smith	25 E Algonquin Rd Des Plaines, IL 600175017	8473912000 (WP)	Responsible Official for

Related Organizations:

Name	Address	Phone (Type)	Relationship
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Operates
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Owns
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Water Billing Party for
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Emission Inventory Billing Party
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Solid Waste Billing Party for
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Radiation License Billing Party for
UOP LLC	8725 Old Mooringsport Road Shreveport, LA 71107	3189293521 (WP)	Air Billing Party for

NAIC Codes: 325188, All Other Basic Inorganic Chemical Manufacturing

Note: This report entitled "General Information" contains a summary of facility-level information contained in LDEQ's TEMPO database for this facility and is not considered a part of the permit. Please review the information contained in this document for accuracy and completeness. If any changes are required or if you have questions regarding this document, you may contact Ms. Tommie Milam, Permit Support Services Division, at (225) 219-3259 or email your changes to facupdate@la.gov.

INVENTORIES

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Shreveport Plant						
EQT 0002	110-01 - North Laboratory Fume Scrubber		.95 MM scf/hr	.95 MM scf/hr		8760 hr/yr
EQT 0003	110-02 - South Laboratory Fume Scrubber		1.14 MM scf/hr	1.14 MM scf/hr		8760 hr/yr
EQT 0006	140-03 - No. 3 Steam Boiler		54 MM BTU/hr	43.2 MM BTU/hr		8760 hr/yr
EQT 0007	140-04 - No. 4 Steam Boiler		54 MM BTU/hr	43.2 MM BTU/hr		8760 hr/yr
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack					8760 hr/yr
EQT 0009	140-18-A - Heavy Aromatic Storage Tank (SV-300-45)	250000 gallons	539281 gallons/yr	539281 gallons/yr	Heavy Aromatics	8760 hr/yr
EQT 0010	140-18-B - Heavy Aromatic Storage Tank (SV-300-45)	250000 gallons	2.78 MM gallons/yr	2.78 MM gallons/yr	Heavy Aromatics	8760 hr/yr
EQT 0011	140-19 - Diethylbenzene Storage Tank (SV-300-43)	250000 gallons	2.08 MM gallons/yr	2.08 MM gallons/yr	Diethylbenzene	8760 hr/yr
EQT 0012	140-20 - Skim Oil Tank (SV-10)	12600 gallons	1 MM gallons/yr	1 MM gallons/yr	Skim Oil	8760 hr/yr
EQT 0013	140-21 - Skim Oil Tank (SV-6)	13937 gallons	1 MM gallons/yr	1 MM gallons/yr	Skim Oil	8760 hr/yr
EQT 0014	140-24 - Forming Oil Storage Tank (SV-140-97)	16752 gallons	1 MM gallons/yr	1 MM gallons/yr	Forming Oil	8760 hr/yr
EQT 0016	140-39 - Tank No. SV-140-39	22000 gallons	1 MM gallons/yr	1 MM gallons/yr	Dilute Hydrochloric Acid	8760 hr/yr
EQT 0018	TMP989 - Tank No. SV-140-133 Skim Oil	100 gallons			Skim Oil	8760 hr/yr
EQT 0019	150-01-A - Repackaging Area Dust Collector		.04 MM scf/hr	.04 MM scf/hr		8760 hr/yr
EQT 0020	150-02 - No. 8 Warehouse Dust Collector		.12 MM scf/hr	.12 MM scf/hr		8760 hr/yr
EQT 0021	180-02 - Tank No. SV-150-4	1000 gallons	250000 gallons/yr	25000 gallons/yr	Gasoline	8760 hr/yr
EQT 0022	190-05 - SCM Line 1 Dust Collector		3000 ft^3/min (actual)	3000 ft^3/min (actual)		8760 hr/yr
EQT 0023	200-02 - Neutral Oil Storage Tank (SV-29)	20125 gallons	1 MM gallons/yr	1 MM gallons/yr	Neutral Oil	8760 hr/yr
EQT 0024	200-04 - Neutral Oil Storage Tank (SV-97)	13939 gallons	1 MM gallons/yr	1 MM gallons/yr	Neutral Oil	8760 hr/yr
EQT 0025	200-05 - Neutral Oil Storage Tank (SV-240-113)	17000 gallons	1 MM gallons/yr	1 MM gallons/yr	Neutral Oil	8760 hr/yr
EQT 0026	210-01-A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)		700 lb/hr	500 lb/hr		8760 hr/yr
EQT 0029	240-09-A - Conical Evaporators Fume Scrubber		.2 MM scf/hr	.2 MM scf/hr		8760 hr/yr
EQT 0030	240-10 - Catalyst Dust Collector		1.49 MM scf/hr	1.49 MM scf/hr		8760 hr/yr
EQT 0031	240-11 - Phosphoric Acid Tank	6000 gallons	350000 gallons/yr	350000 gallons/yr	Phosphoric Acid	8760 hr/yr
EQT 0034	270-05 - Tank Farm Fume Scrubber		5900 scf/hr	5900 scf/hr		8760 hr/yr
EQT 0036	273-03 - Ball Mill Crusher Dust Collector		294 scf/hr	294 scf/hr		8760 hr/yr
EQT 0037	300-01 - p-Deb Drumming Tank (SV-300-1)	20000 gallons	2.78 MM gallons/yr	2.78 MM gallons/yr	p-Deb	8760 hr/yr
EQT 0038	300-02 - p-Deb Drumming Tank (SV-300-2)	20250 gallons	2.78 MM gallons/yr	2.78 MM gallons/yr	p-Deb	8760 hr/yr
EQT 0039	300-05 - p-Deb Storage Tank (SV-300-48)	250000 gallons	2.78 MM gallons/yr	2.78 MM gallons/yr	p-Deb	8760 hr/yr
EQT 0040	300-06 - p-Deb Storage Tank (SV-300-47)	250000 gallons	2.78 MM gallons/yr	2.78 MM gallons/yr	p-Deb	8760 hr/yr
EQT 0041	300-07 - Feed Storage Tank (SV-300-49)	250000 gallons	3.87 MM gallons/yr	3.87 MM gallons/yr	p Deb Feed	8760 hr/yr
EQT 0042	300-12-A - Hydrocarbon Storage Tank (SV-300-42)	252000 gallons	177594 gallons/yr	177594 gallons/yr	Neutral Oil	8760 hr/yr
EQT 0043	300-12-B - Hydrocarbon Storage Tank (SV-300-42)	252000 gallons	2.78 MM gallons/yr	2.78 MM gallons/yr	p-Deb	8760 hr/yr
EQT 0046	300-16-B - Railcar/Truck - Loading/Unloading		28 MM lbs/yr	28 MM lbs/yr		8760 hr/yr
EQT 0050	310-03 - No. 1 Unit Heater		6.3 MM BTU/hr	6.3 MM BTU/hr		8760 hr/yr
EQT 0051	310-04 - No. 1 Regeneration Heater		.7 MM BTU/hr	.7 MM BTU/hr		8760 hr/yr
EQT 0052	310-06 - Reduction Unit No. 2 Unit Heater		14.8 MM BTU/hr	14.8 MM BTU/hr		8760 hr/yr
EQT 0053	310-07 - Reduction Unit Baghouse System		.2 MM scf/hr	.2 MM scf/hr		8760 hr/yr

INVENTORIES

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Shreveport Plant						
EQT 0054	310-09 - No. 2 Regeneration Heater		.64 MM BTU/hr	.64 MM BTU/hr		8760 hr/yr
EQT 0056	330-01-A - SCM Scrubber Stack		25.07 MM BTU/hr	25.07 MM BTU/hr		8760 hr/yr
EQT 0057	330-03 - Solids Feed Hopper Dust Collector		.43 MM scf/hr	.43 MM scf/hr		8760 hr/yr
EQT 0058	360-01 - Tray Dryer		.33 MM scf/hr	.33 MM scf/hr		8760 hr/yr
EQT 0059	360-03 - Material Handling System		.07 MM scf/hr	.07 MM scf/hr		8760 hr/yr
EQT 0060	410-01 - Tank Farm HCl Fume Scrubber		.03 MM scf/hr	.03 MM scf/hr		8760 hr/yr
EQT 0063	600-22 - Tank No. SV-600-22	25000 gallons	1 MM gallons/yr	1 MM gallons/yr	Neutral Oil	8760 hr/yr
EQT 0064	620-02-SV-610-30 - Circulating Oil Storage Tank	22500 gallons	1 MM gallons/yr	1 MM gallons/yr	Circulating Oil	8760 hr/yr
EQT 0065	620-02-SV-610-31 - Circulating Oil Storage Tank	22500 gallons	1 MM gallons/yr	1 MM gallons/yr	Circulating Oil	8760 hr/yr
EQT 0066	620-02-SV-610-32 - Circulating Oil Storage Tank	22500 gallons	1 MM gallons/yr	1 MM gallons/yr	Circulating Oil	8760 hr/yr
EQT 0067	620-02-SV-610-35 - Skim Oil Storage Tank	12600 gallons	1 MM gallons/yr	1 MM gallons/yr	Skim Oil	8760 hr/yr
EQT 0068	620-02-SV-600-19 - Tin Tetrachloride Storage Tank	8200 gallons			Tin Tetrachloride	8760 hr/yr
EQT 0069	620-02-SV-600-20 - Dilute Acidic Recycle Storage Tank	25700 gallons			Dilute Acidic	8760 hr/yr
EQT 0071	270-05-SV-440-17 - HCl Storage Tank	16900 gallons	1 MM gallons/yr	1 MM gallons/yr	Hydrochloric Acid	8760 hr/yr
EQT 0072	270-05-SV-440-18 - HCl Storage Tank	15200 gallons	1 MM gallons/yr	1 MM gallons/yr	Hydrochloric Acid	8760 hr/yr
EQT 0073	330-01-A-SV-200-1 - Circulating Oil Storage Tank	4970 gallons	1 MM gallons/yr	1 MM gallons/yr	35% API Mineral, Water Saturated Oil, NH4Cl, trace amines or dilute NH3(aq) soln w/ chlorides	8760 hr/yr
EQT 0074	330-01-A-SV-200-2 - Circulating Oil Storage Tank	4970 gallons	1 MM gallons/yr	1 MM gallons/yr	35% API Mineral, Water Saturated Oil, NH4Cl, trace amines or dilute NH3(aq) soln w/ chlorides	8760 hr/yr
EQT 0075	330-01-A-SV-200-3 - Circulating Oil Storage Tank	4970 gallons	1 MM gallons/yr	1 MM gallons/yr	35% API Mineral, Water Saturated Oil, NH4Cl, trace amines or dilute NH3(aq) soln w/ chlorides	8760 hr/yr
EQT 0076	330-01-A-SV-200-4 - Circulating Oil Storage Tank	4970 gallons	1 MM gallons/yr	1 MM gallons/yr	35% API Mineral, Water Saturated Oil, NH4Cl, trace amines or dilute NH3(aq) soln w/ chlorides	8760 hr/yr
EQT 0077	330-01-A-SV-200-7 - Oil Wash Vessel	5030 gallons	1 MM gallons/yr	1 MM gallons/yr	35% API Mineral, Water Saturated Oil, NH4Cl, trace amines or dilute NH3(aq) soln w/ chlorides	8760 hr/yr
EQT 0078	330-01-A-SV-200-10 - Neutral Oils Storage Tank	12900 gallons	1 MM gallons/yr	1 MM gallons/yr	Neutral Oils	8760 hr/yr
EQT 0082	330-01-A-SV-210-59 - 50-80% Aqueous Ammonium Nitrate Solution Storage Tank	21500 gallons	1 gallons/min	20000 gallons/yr	Aqueous Ammonium Nitrate	8760 hr/yr
EQT 0083	410-01-SV-290-32 - 36% HCl Storage Tank	16000 gallons	1 MM gallons/yr	1 MM gallons/yr	36% HCl	8760 hr/yr
EQT 0084	410-01-SV-240-59 - 36% HCl Storage Tank	16750 gallons	1 MM gallons/yr	1 MM gallons/yr	36% HCl	8760 hr/yr
EQT 0085	410-01-SV-280-29 - 36% HCl Storage Tank	15000 gallons	1 MM gallons/yr	1 MM gallons/yr	36% HCl	8760 hr/yr

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INVENTORIES

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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Shreveport Plant						
EQT 0086	620-02-SV-272-5 - 36% HCl Storage Tank	30000 gallons			36% HCl	8760 hr/yr
EQT 0087	620-02-SV-272-6 - 36% HCl Storage Tank	30000 gallons			36% HCl	8760 hr/yr
EQT 0088	620-02-SV-140-117 - Skim Oil Storage Tank	100 gallons			Skim Oil	8760 hr/yr
EQT 0089	TMP967 - DAF Unit					8760 hr/yr
EQT 0092	SV-140-108 - Settling Tank	21600 gallons				8760 hr/yr
EQT 0094	TMP963 - SCM Line 2 Evaporators & Oxidizer Oven					8760 hr/yr
EQT 0095	TMP962 - SCM Line 2 Materials Conveying and Handling Equipment (catalyst base and oxidized cat. production)					8760 hr/yr
EQT 0096	TMP961 - SCM Lines 1 and 2 Calciners					8760 hr/yr
EQT 0097	TMP960 - SCM Line 1 Forming and Aging					8760 hr/yr
EQT 0098	TMP959 - SCM Line 1 Drying Oven					8760 hr/yr
EQT 0099	TMP958 - SCM Line 2 Forming and Aging					8760 hr/yr
EQT 0100	TMP957 - SCM Line 2 Drying Oven (process emissions only)					8760 hr/yr
EQT 0101	TMP956 - SCM Lines 1 and 2 Cyclones					8760 hr/yr
EQT 0102	TMP955 - SCM Line 3 Forming and Aging					8760 hr/yr
EQT 0103	TMP954 - SCM Line 3 Drying Oven					8760 hr/yr
EQT 0104	TMP953 - SCM Line 3 Calciner					8760 hr/yr
EQT 0105	TMP952 - SCM Line 3 Cyclone					8760 hr/yr
EQT 0111	620-03 - Line 3 Calciner Heater Treater		3.75 MM BTU/hr	3 MM BTU/hr		8760 hr/yr
EQT 0113	140-06 - No. 5 Steam Boiler		72.41 MM BTU/hr	60.34 MM BTU/hr		8760 hr/yr
EQT 0115	210-01-B - Line 1 SCR Vent		700 lb/hr	500 lb/hr		8760 hr/yr
EQT 0117	330-01-A-SV-210-6 - 40-50% Dissolved Ammonium Nitrate Tank	900 gallons	1 gallons/min	20000 gallons/yr	Dissolved ammonium nitrate	8760 hr/yr
EQT 0118	SV-140-100 - Recycle Water Tank	250000 gallons	600 gallons/min	190 MM gallons/yr	Recycle water	8760 hr/yr
EQT 0119	SV-140-111 - Spent Recycle Water Tank	30000 gallons	550 gallons/min	150 MM gallons/yr	Spent Recycle water	8760 hr/yr
EQT 0120	SV-140-115 - Tank for Distillate from Evaporators	158000 gallons	300 gallons/min	85 MM gallons/yr	Distillate	8760 hr/yr
EQT 0121	SV-140-116 - 5-10% Caustic Solution Tank	1000 gallons	10 gallons/min		Caustic Solution	8760 hr/yr
EQT 0122	SV-140-134 - Spent Recycle Water Tank	5000 gallons	550 gallons/min	150 MM gallons/yr	Spent Recycle water	8760 hr/yr
EQT 0123	SV-280-83 - Brine Tank	420000 gallons	600 gallons/min	55 MM gallons/yr	Brine	8760 hr/yr
EQT 0124	SV-140-109 - Settling Tank	21600 gallons				8760 hr/yr
EQT 0125	140-07 - Cummins GM3.0 L Emergency Generator			39.5 horsepower	Natural gas	500 hr/yr
EQT 0126	CT-01 - RWT/Reduction Cooling Tower		1000 gallons/min	1000 gallons/min		8760 hr/yr
EQT 0127	CT-02 - SCM Line 1 & 2 Cooling Tower		750 gallons/min	750 gallons/min		8760 hr/yr
EQT 0128	CT-03 - SCM Line 3 Cooling Tower		1200 gallons/min	1200 gallons/min		8760 hr/yr
EQT 0130	SC-01 - Production of Specialty Coating Material		25 batches/yr	25 batches/yr		900 hr/yr
EQT 0131	SC-02A - Production of Specialty Catalyst - Preparation		24 batches/yr	24 batches/yr		1296 hr/yr
EQT 0132	SC-02B - Production of Specialty Catalyst - Process		24 batches/yr	24 batches/yr		1440 hr/yr
EQT 0133	SW-01 - Semi-Works Unit (Conical Evaporator)					8760 hr/yr
EQT 0134	SW-02 - Semi-Works Unit (Oxidizer Oven)					8760 hr/yr

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INVENTORIES

AI ID: 17846 - UOP LLC - Shreveport Plant
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Subject Item Inventory:

ID	Description	Tank Volume	Max. Operating Rate	Normal Operating Rate	Contents	Operating Time
Shreveport Plant						
EQT 0135	SW-03 - Semi-Works Unit (Reduction Reactor)					8760 hr/yr
EQT 0136	SV-140-95 - RWT1 Tank - Recycle Water from Inorganic Process	250000 gallons	600 gallons/min	2 MM gallons/yr	Recycle water from inorganic process	8760 hr/yr
FUG 0001	310-08 - Reduction Unit Fugitive Emissions					8760 hr/yr
FUG 0002	360-04 - Sarex Unit Fugitive Emissions					8760 hr/yr
FUG 0003	900-01 - Waste Water Pond Area Fugitives					8760 hr/yr
FUG 0004	900-02 - SCM Unit Area Fugitives					8760 hr/yr
FUG 0005	900-03 - New SCM Unit Area Fugitives (SCM Line 3)					8760 hr/yr
FUG 0006	900-04 - Boiler Sump Area Fugitives					8760 hr/yr
FUG 0007	900-05-A - Main Chemical Sump Area Fugitives					8760 hr/yr
FUG 0008	900-06 - Spent Catalyst Area Fugitives					8760 hr/yr
FUG 0009	900-08 - New SCM Sump Fugitives (SCM Line 3)					8760 hr/yr
RLP 0002	210-02 - Rotary Evaporators Stack		.28 MM scf/hr	.28 MM scf/hr		8760 hr/yr
RLP 0003	240-01 - Continuous SCM Oxidizer (No. 1 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0004	240-02 - Continuous SCM Oxidizer (No. 2 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0005	240-03 - Continuous SCM Oxidizer (No. 3 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0006	240-04 - Continuous SCM Oxidizer (No. 4 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0007	240-05 - Continuous SCM Oxidizer (No. 5 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0008	240-06 - Continuous SCM Oxidizer (No. 6 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0009	240-07 - Continuous SCM Oxidizer (No. 7 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0010	240-08 - Continuous SCM Oxidizer (No. 8 Stack)		2 MM BTU/hr	2 MM BTU/hr		8760 hr/yr
RLP 0011	240-09-B - Line 2 SCR Vent		6.5 MM BTU/hr	6.5 MM BTU/hr		8760 hr/yr
RLP 0012	273-06 - Vault Vent		.06 MM scf/hr	.06 MM scf/hr		8760 hr/yr
RLP 0013	310-01 - Reduction Unit No. 1 Vent		2900 scf/hr	2900 scf/hr		473.2 hr/yr
RLP 0014	310-02/310-10 - No. 1 & No. 2 Regeneration System Vents		334 scf/hr	334 scf/hr		8760 hr/yr
RLP 0015	310-05 - Reduction Unit No. 2 Vent		2900 scf/hr	2900 scf/hr		473.2 hr/yr
RLP 0016	340-01 - Continuous SCM Drying Oven (No. 1 Stack)		5.6 MM BTU/hr	5.6 MM BTU/hr		8760 hr/yr
RLP 0017	340-02 - Continuous SCM Drying Oven (No. 2 Stack)		5.6 MM BTU/hr	5.6 MM BTU/hr		8760 hr/yr
RLP 0018	340-03 - Continuous SCM Drying Oven (No. 3 Stack)		5.6 MM BTU/hr	5.6 MM BTU/hr		8760 hr/yr
RLP 0019	600-01 - Aluminum Digester Vent		.03 MM scf/hr	.03 MM scf/hr		8760 hr/yr
RLP 0020	620-01 - Drying/Calcining Dust Collection Stack		.45 MM scf/hr	.45 MM scf/hr		8760 hr/yr
RLP 0021	620-02 - Main Plant Stack		33.5 MM BTU/hr	33.5 MM BTU/hr		8760 hr/yr
RLP 0022	630-01 - Oxidizer Caustic Scrubber Stack					8760 hr/yr
RLP 0023	630-02 - Oxidizer Flue Stack, Zone No. 1		4.5 MM BTU/hr	4.5 MM BTU/hr		8760 hr/yr
RLP 0024	630-03 - Oxidizer Flue Stack, Zones No. 1 and No. 2		9 MM BTU/hr	9 MM BTU/hr		8760 hr/yr
RLP 0025	630-04 - Oxidizer Flue Stack, Zones No. 2 and No. 3		9 MM BTU/hr	9 MM BTU/hr		8760 hr/yr
RLP 0026	630-05 - Finished Catalyst Dust Collection Vent					8760 hr/yr
RLP 0027	630-06 - Oxidizer Flue Stack, Zone No. 3		4.5 MM BTU/hr	4.5 MM BTU/hr		8760 hr/yr

INVENTORIES

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Shreveport Plant							
EQT 0002	110-01 - North Laboratory Fume Scrubber	44.8	19000	3		22.3	74
EQT 0003	110-02 - South Laboratory Fume Scrubber	48.36	18250	2.83		27	80
EQT 0006	140-03 - No. 3 Steam Boiler	23	11450	3.25		30.5	420
EQT 0007	140-04 - No. 4 Steam Boiler	23	11450	3.25		30.5	440
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	29.77	10000	2.67		80.5	77
EQT 0009	140-18-A - Heavy Aromatic Storage Tank (SV-300-45)	.03	.39	.5		30.3	70
EQT 0010	140-18-B - Heavy Aromatic Storage Tank (SV-300-45)	.03	.39	.5		30.3	70
EQT 0011	140-19 - Diethylbenzene Storage Tank (SV-300-43)	.03	.39	.5		30.33	70
EQT 0012	140-20 - Skim Oil Tank (SV-10)	.03	.25	.5		15.1	70
EQT 0013	140-21 - Skim Oil Tank (SV-6)	.03	.25	.5		30	70
EQT 0014	140-24 - Forming Oil Storage Tank (SV-140-97)	.03	.25	.5		20.5	70
EQT 0016	140-39 - Tank No. SV-140-39	.03	.25	.5		36.2	70
EQT 0019	150-01-A - Repackaging Area Dust Collector	14.9	700	1		12	70
EQT 0020	150-02 - No. 8 Warehouse Dust Collector	61.6	2000	.83		14	70
EQT 0021	180-02 - Tank No. SV-150-4	.03	.25	.17		4	70
EQT 0022	190-05 - SCM Line 1 Dust Collector	64	3000	1		47	70
EQT 0023	200-02 - Neutral Oil Storage Tank (SV-29)			.5		24.34	70
EQT 0024	200-04 - Neutral Oil Storage Tank (SV-97)	.03	.25	.5		29.67	70
EQT 0025	200-05 - Neutral Oil Storage Tank (SV-240-113)			.5		21	70
EQT 0026	210-01-A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)	40.1	23144	3.5		56.87	337
EQT 0029	240-09-A - Conical Evaporators Fume Scrubber	14	3583.3	2.33		50	104
EQT 0030	240-10 - Catalyst Dust Collector	60.5	25647	3		34.3	77
EQT 0031	240-11 - Phosphoric Acid Tank			.17		14	70
EQT 0034	270-05 - Tank Farm Fume Scrubber	47	550	.5		20	70
EQT 0036	273-03 - Ball Mill Crusher Dust Collector	.1	5	1	–	9.3	70
EQT 0037	300-01 - p-Deb Drumming Tank (SV-300-1)	.03		.17		25	70
EQT 0038	300-02 - p-Deb Drumming Tank (SV-300-2)	.03		.17		25	70
EQT 0039	300-05 - p-Deb Storage Tank (SV-300-48)	.03		.5		31.5	70
EQT 0040	300-06 - p-Deb Storage Tank (SV-300-47)	.03		.5		31.5	70
EQT 0041	300-07 - Feed Storage Tank (SV-300-49)	.03		.5		31.5	70
EQT 0042	300-12-A - Hydrocarbon Storage Tank (SV-300-42)			.5		31.5	70
EQT 0043	300-12-B - Hydrocarbon Storage Tank (SV-300-42)			.5		31.5	70

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AI ID: 17846 - UOP LLC - Shreveport Plant
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Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Shreveport Plant							
EQT 0046	300-16-B - Railcar/Truck - Loading/Unloading	.03				3.28	70
EQT 0050	310-03 - No. 1 Unit Heater	10	3000	2.5		36.7	1424
EQT 0051	310-04 - No. 1 Regeneration Heater	8.5	400	1		23.7	1154
EQT 0052	310-06 - Reduction Unit No. 2 Unit Heater	12	5100	3		39.25	1558
EQT 0053	310-07 - Reduction Unit Baghouse System	18.5	3496	2		12	80
EQT 0054	310-09 - No. 2 Regeneration Heater	74	1560	67		40	600
EQT 0056	330-01-A - SCM Scrubber Stack	39.5	63218	5.83		180	135
EQT 0057	330-03 - Solids Feed Hopper Dust Collector	27	453.6		.28	31.6	70
EQT 0058	360-01 - Tray Dryer	16.78	7120	3		51	220
EQT 0059	360-03 - Material Handling System	26	1225	1		41	80
EQT 0060	410-01 - Tank Farm HCl Fume Scrubber	45	535	5		18	70
EQT 0063	600-22 - Tank No. SV-600-22	.03	.25	.5		28	80
EQT 0111	620-03 - Line 3 Calciner Heater Treater	34.68	6537	2		64.75	520
EQT 0113	140-06 - No. 5 Steam Boiler	12.9	7110	3.42		40	440
EQT 0115	210-01-B - Line 1 SCR Vent	55.5	23550	3		57	450
EQT 0125	140-07 - Cummins GM3.0 L Emergency Generator	35.85	184	.33		6	1096
EQT 0126	CT-01 - RWT/Reduction Cooling Tower	4.8	90000	20		8.5	85
EQT 0127	CT-02 - SCM Line 1 & 2 Cooling Tower	3.5	65000	20		8.5	85
EQT 0128	CT-03 - SCM Line 3 Cooling Tower	5.5	104000	20		8.5	85
EQT 0130	SC-01 - Production of Specialty Coating Material	23	1100	1		20	70
EQT 0131	SC-02A - Production of Specialty Catalyst - Preparation	57	1200	.67		16	70
EQT 0132	SC-02B - Production of Specialty Catalyst - Process	21	450	.67		22.5	100
FUG 0001	310-08 - Reduction Unit Fugitive Emissions	.03		3.28		47.5	70
FUG 0002	360-04 - Sarex Unit Fugitive Emissions					42	70
RLP 0002	210-02 - Rotary Evaporators Stack	50.96	4250	1.33		53	116
RLP 0003	240-01 - Continuous SCM Oxidizer (No. 1 Stack)	17.11	1260	1.25		50	310
RLP 0004	240-02 - Continuous SCM Oxidizer (No. 2 Stack)	25	1820	1.25		50	520
RLP 0005	240-03 - Continuous SCM Oxidizer (No. 3 Stack)	26	1940	1.25		50	450
RLP 0006	240-04 - Continuous SCM Oxidizer (No. 4 Stack)	29	2140	1.25		50	440
RLP 0007	240-05 - Continuous SCM Oxidizer (No. 5 Stack)	28	2050	1.25		50	555
RLP 0008	240-06 - Continuous SCM Oxidizer (No. 6 Stack)	32	2320	1.25		50	620
RLP 0009	240-07 - Continuous SCM Oxidizer (No. 7 Stack)	28	2080	1.25		50	610

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AI ID: 17846 - UOP LLC - Shreveport Plant
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Air - Title V Regular Permit Renewal

Stack Information:

ID	Description	Velocity (ft/sec)	Flow Rate (cubic ft/min-actual)	Diameter (feet)	Discharge Area (square feet)	Height (feet)	Temperature (oF)
Shreveport Plant							
RLP 0010	240-08 - Continuous SCM Oxidizer (No. 8 Stack)	28	2080	1.25		50	610
RLP 0011	240-09-B - Line 2 SCR Vent	14.5	3700	2.33		50	543
RLP 0012	273-06 - Vault Vent	23.3	1100	1		35.5	70
RLP 0013	310-01 - Reduction Unit No. 1 Vent	5.7	67	.5		50	250
RLP 0014	310-02/310-10 - No. 1 & No. 2 Regeneration System Vents	1.2	6	.33		.2	100
RLP 0015	310-05 - Reduction Unit No. 2 Vent	3.2	67	.67		44	250
RLP 0016	340-01 - Continuous SCM Drying Oven (No. 1 Stack)	18	1860	1.5		50	740
RLP 0017	340-02 - Continuous SCM Drying Oven (No. 2 Stack)	12	1210	1.5		50	900
RLP 0018	340-03 - Continuous SCM Drying Oven (No. 3 Stack)	20	2130	1.5		50	1115
RLP 0019	600-01 - Aluminum Digester Vent	51.8	610	.5		90	100
RLP 0020	620-01 - Drying/Calcining Dust Collection Stack	61	8000	1.67		38.5	100
RLP 0021	620-02 - Main Plant Stack	36.6	63808	6.08		195	140
RLP 0022	630-01 - Oxidizer Caustic Scrubber Stack	56.5	18939	2.67		64.75	160
RLP 0023	630-02 - Oxidizer Flue Stack, Zone No. 1	18.7	9805	3.33		64.75	600
RLP 0024	630-03 - Oxidizer Flue Stack, Zones No. 1 and No. 2	21.3	19611	4.42		64.75	600
RLP 0025	630-04 - Oxidizer Flue Stack, Zones No. 2 and No. 3	21.3	19611	4.42		64.75	600
RLP 0026	630-05 - Finished Catalyst Dust Collection Vent	70	4500	1.17		35	165
RLP 0027	630-06 - Oxidizer Flue Stack, Zone No. 3	18.7	9805	3.33		64.75	600

Relationships:

ID	Description	Relationship	ID	Description
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0122	SV-140-134 - Spent Recycle Water Tank
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0121	SV-140-116 - 5-10% Caustic Solution Tank
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from, a portion of	FUG 0007	900-05-A - Main Chemical Sump Area Fugitives
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0136	SV-140-95 - RWT1 Tank - Recycle Water from Inorganic Process
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0124	SV-140-109 - Settling Tank
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0120	SV-140-115 - Tank for Distillate from Evaporators
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0119	SV-140-111 - Spent Recycle Water Tank
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0118	SV-140-100 - Recycle Water Tank
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0092	SV-140-108 - Settling Tank
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0089	TMP967 - DAF Unit
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0018	TMP989 - Tank No. SV-140-133 Skim Oil
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	Controls emissions from	EQT 0123	SV-280-83 - Brine Tank

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Relationships:

ID	Description	Relationship	ID	Description
EQT 0029	240-09-A - Conical Evaporators Fume Scrubber	Controls emissions from	EQT 0094	TMP963 - SCM Line 2 Evaporators & Oxidizer Oven
EQT 0030	240-10 - Catalyst Dust Collector	Controls emissions from	EQT 0095	TMP962 - SCM Line 2 Materials Conveying and Handling Equipment (catalyst base and oxidized cat. production)
EQT 0034	270-05 - Tank Farm Fume Scrubber	Controls emissions from	EQT 0071	270-05-SV-440-17 - HCl Storage Tank
EQT 0034	270-05 - Tank Farm Fume Scrubber	Controls emissions from	EQT 0072	270-05-SV-440-18 - HCl Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0096	TMP961 - SCM Lines 1 and 2 Calciners
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0082	330-01-A-SV-210-59 - 50-80% Aqueous Ammonium Nitrate Solution Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0078	330-01-A-SV-200-10 - Neutral Oils Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0077	330-01-A-SV-200-7 - Oil Wash Vessel
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0076	330-01-A-SV-200-4 - Circulating Oil Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0075	330-01-A-SV-200-3 - Circulating Oil Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0074	330-01-A-SV-200-2 - Circulating Oil Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0073	330-01-A-SV-200-1 - Circulating Oil Storage Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0097	TMP960 - SCM Line 1 Forming and Aging
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0117	330-01-A-SV-210-6 - 40-50% Dissolved Ammonium Nitrate Tank
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0101	TMP956 - SCM Lines 1 and 2 Cyclones
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0100	TMP957 - SCM Line 2 Drying Oven (process emissions only)
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0099	TMP958 - SCM Line 2 Forming and Aging
EQT 0056	330-01-A - SCM Scrubber Stack	Controls emissions from	EQT 0098	TMP959 - SCM Line 1 Drying Oven
EQT 0060	410-01 - Tank Farm HCl Fume Scrubber	Controls emissions from	EQT 0083	410-01-SV-290-32 - 36% HCl Storage Tank
EQT 0060	410-01 - Tank Farm HCl Fume Scrubber	Controls emissions from	EQT 0085	410-01-SV-280-29 - 36% HCl Storage Tank
EQT 0060	410-01 - Tank Farm HCl Fume Scrubber	Controls emissions from	EQT 0084	410-01-SV-240-59 - 36% HCl Storage Tank
EQT 0133	SW-01 - Semi-Works Unit (Conical Evaporator)	Vents to	EQT 0003	110-02 - South Laboratory Fume Scrubber
EQT 0134	SW-02 - Semi-Works Unit (Oxidizer Oven)	Vents to	EQT 0003	110-02 - South Laboratory Fume Scrubber
EQT 0135	SW-03 - Semi-Works Unit (Reduction Reactor)	Vents to	EQT 0003	110-02 - South Laboratory Fume Scrubber
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0086	620-02-SV-272-5 - 36% HCl Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0087	620-02-SV-272-6 - 36% HCl Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0105	TMP952 - SCM Line 3 Cyclone
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0104	TMP953 - SCM Line 3 Calciner
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0103	TMP954 - SCM Line 3 Drying Oven
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0102	TMP955 - SCM Line 3 Forming and Aging
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0088	620-02-SV-140-117 - Skim Oil Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0069	620-02-SV-600-20 - Dilute Acidic Recycle Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0068	620-02-SV-600-19 - Tin Tetrachloride Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from, a portion of	FUG 0009	900-08 - New SCM Sump Fugitives (SCM Line 3)
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0066	620-02-SV-610-32 - Circulating Oil Storage Tank

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Relationships:

ID	Description	Relationship	ID	Description
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0065	620-02-SV-610-31 - Circulating Oil Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0064	620-02-SV-610-30 - Circulating Oil Storage Tank
RLP 0021	620-02 - Main Plant Stack	Controls emissions from	EQT 0067	620-02-SV-610-35 - Skim Oil Storage Tank

Subject Item Groups:

ID	Group Type	Group Description
CRG 0001	Common Requirements Group	Combust 1 - Boilers, Heaters, Ovens and Dryers
CRG 0002	Common Requirements Group	Filter 99 - 99% Efficient Dust Collectors
CRG 0004	Common Requirements Group	CFUG-1 - Sump Areas Fugitives
CRG 0005	Common Requirements Group	CFUG-2 - SCM Units Fugitives
CRG 0006	Common Requirements Group	EVRALDIgFUG - Evaporator, Vault, Regenration System, Al Digester, and Reduction Unit Fugitives
GRP 0002	Equipment Group	Desorb1 - Desorbent Loading/Unloading Unit
GRP 0003	Equipment Group	SarexU1 - Sarex Unit
GRP 0004	Equipment Group	SpenCat1 - Spent Catalyst Processing
GRP 0005	Equipment Group	140-CAP - Boilers 140-3 and 140-4 Emissions CAP
GRP 0006	Equipment Group	240-09-CAP - SCM Line 2 (240-09-A, 240-09-B) Emissions CAP
GRP 0009	Equipment Group	SCBR - Scrubbers
GRP 0010	Equipment Group	210-330-CAP - Line 1 Emission Control CAP
GRP 0012	Equipment Group	CTEC - Catalyst Trial Emissions CAP
UNF 0001	Unit or Facility Wide	UOP - Shreveport Plant

Group Membership:

ID	Description	Member of Groups
EQT 0002	110-01 - North Laboratory Fume Scrubber	GRP0000000009
EQT 0003	110-02 - South Laboratory Fume Scrubber	GRP0000000009
EQT 0006	140-03 - No. 3 Steam Boiler	CRG0000000001, GRP0000000005
EQT 0007	140-04 - No. 4 Steam Boiler	CRG0000000001, GRP0000000005
EQT 0008	140-05 - Recycle Water Unit Scrubber Stack	GRP0000000009
EQT 0009	140-18-A - Heavy Aromatic Storage Tank (SV-300-45)	GRP0000000002
EQT 0010	140-18-B - Heavy Aromatic Storage Tank (SV-300-45)	GRP0000000002
EQT 0011	140-19 - Diethylbenzene Storage Tank (SV-300-43)	GRP0000000002
EQT 0026	210-01-A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)	GRP0000000010, GRP0000000012
EQT 0029	240-09-A - Conical Evaporators Fume Scrubber	GRP0000000006, GRP0000000009, GRP0000000012
EQT 0030	240-10 - Catalyst Dust Collector	GRP0000000012
EQT 0034	270-05 - Tank Farm Fume Scrubber	GRP0000000009
EQT 0036	273-03 - Ball Mill Crusher Dust Collector	CRG0000000002, GRP0000000004
EQT 0037	300-01 - p-Deb Drumming Tank (SV-300-1)	GRP0000000002
EQT 0038	300-02 - p-Deb Drumming Tank (SV-300-2)	GRP0000000002

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Group Membership:

ID	Description	Member of Groups
EQT 0039	300-05 - p-Deb Storage Tank (SV-300-48)	GRP0000000002
EQT 0040	300-06 - p-Deb Storage Tank (SV-300-47)	GRP0000000002
EQT 0041	300-07 - Feed Storage Tank (SV-300-49)	GRP0000000002
EQT 0043	300-12-B - Hydrocarbon Storage Tank (SV-300-42)	GRP0000000002
EQT 0046	300-16-B - Railcar/Truck - Loading/Unloading	GRP0000000002
EQT 0050	310-03 - No. 1 Unit Heater	CRG0000000001
EQT 0051	310-04 - No. 1 Regeneration Heater	CRG0000000001
EQT 0052	310-06 - Reduction Unit No. 2 Unit Heater	CRG0000000001
EQT 0053	310-07 - Reduction Unit Baghouse System	CRG0000000002
EQT 0054	310-09 - No. 2 Regeneration Heater	CRG0000000001
EQT 0056	330-01-A - SCM Scrubber Stack	GRP0000000009, GRP0000000010, GRP0000000012
EQT 0057	330-03 - Solids Feed Hopper Dust Collector	CRG0000000002
EQT 0058	360-01 - Tray Dryer	GRP0000000003
EQT 0059	360-03 - Material Handling System	CRG0000000002, GRP0000000003
EQT 0060	410-01 - Tank Farm HCl Fume Scrubber	GRP0000000009
EQT 0098	TMP959 - SCM Line 1 Drying Oven	CRG0000000001
EQT 0103	TMP954 - SCM Line 3 Drying Oven	CRG0000000001
EQT 0104	TMP953 - SCM Line 3 Calciner	CRG0000000001
EQT 0111	620-03 - Line 3 Calciner Heater Treater	CRG0000000001, GRP0000000012
EQT 0115	210-01-B - Line 1 SCR Vent	GRP0000000010, GRP0000000012
FUG 0001	310-08 - Reduction Unit Fugitive Emissions	CRG0000000006
FUG 0002	360-04 - Sarex Unit Fugitive Emissions	GRP0000000003
FUG 0004	900-02 - SCM Unit Area Fugitives	CRG0000000005
FUG 0005	900-03 - New SCM Unit Area Fugitives (SCM Line 3)	CRG0000000005
FUG 0006	900-04 - Boiler Sump Area Fugitives	CRG0000000004
FUG 0007	900-05-A - Main Chemical Sump Area Fugitives	CRG0000000004
FUG 0008	900-06 - Spent Catalyst Area Fugitives	GRP0000000004
RLP 0002	210-02 - Rotary Evaporators Stack	CRG0000000006, GRP0000000012
RLP 0003	240-01 - Continuous SCM Oxidizer (No. 1 Stack)	CRG0000000001
RLP 0004	240-02 - Continuous SCM Oxidizer (No. 2 Stack)	CRG0000000001
RLP 0005	240-03 - Continuous SCM Oxidizer (No. 3 Stack)	CRG0000000001
RLP 0006	240-04 - Continuous SCM Oxidizer (No. 4 Stack)	CRG0000000001
RLP 0007	240-05 - Continuous SCM Oxidizer (No. 5 Stack)	CRG0000000001
RLP 0008	240-06 - Continuous SCM Oxidizer (No. 6 Stack)	CRG0000000001
RLP 0009	240-07 - Continuous SCM Oxidizer (No. 7 Stack)	CRG0000000001
RLP 0010	240-08 - Continuous SCM Oxidizer (No. 8 Stack)	CRG0000000001
RLP 0011	240-09-B - Line 2 SCR Vent	GRP0000000006, GRP0000000012
RLP 0012	273-06 - Vault Vent	CRG0000000006
RLP 0014	310-02/310-10 - No. 1 & No. 2 Regeneration System Vents	CRG0000000006
RLP 0016	340-01 - Continuous SCM Drying Oven (No. 1 Stack)	CRG0000000001
RLP 0017	340-02 - Continuous SCM Drying Oven (No. 2 Stack)	CRG0000000001

INVENTORIES

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Group Membership:

ID	Description	Member of Groups
RLP 0018	340-03 - Continuous SCM Drying Oven (No. 3 Stack)	CRG0000000001
RLP 0019	600-01 - Aluminum Digester Vent	CRG0000000006, GRP0000000009
RLP 0020	620-01 - Drying/Calcining Dust Collection Stack	GRP0000000012
RLP 0021	620-02 - Main Plant Stack	GRP0000000009, GRP0000000012
RLP 0022	630-01 - Oxidizer Caustic Scrubber Stack	GRP0000000009, GRP0000000012
RLP 0023	630-02 - Oxidizer Flue Stack, Zone No. 1	CRG0000000001
RLP 0024	630-03 - Oxidizer Flue Stack, Zones No. 1 and No. 2	CRG0000000001
RLP 0025	630-04 - Oxidizer Flue Stack, Zones No. 2 and No. 3	CRG0000000001
RLP 0026	630-05 - Finished Catalyst Dust Collection Vent	GRP0000000012
RLP 0027	630-06 - Oxidizer Flue Stack, Zone No. 3	CRG0000000001

NOTE: The UNF group relationship is not printed in this table. Every subject item is a member of the UNF group

Annual Maintenance Fee:

Fee Number	Air Contaminant Source	Multiplier	Units Of Measure
1D14	1D14 Level or density gauges		
0635	0635 Olefins and Aromatics N.E.C. (Rated Capacity)	12	MM lbs/yr
1670	1670 Storage Tank		
0480	0480 Catalyste Mfg. and Cat. Regeneration	3	Lines
0635	0635 Olefins and Aromatics N.E.C. (Rated Capacity)	12	MM lbs/yr

SIC Codes:

2819	Industrial inorganic chemicals, nec	AI 17846
2819	Industrial inorganic chemicals, nec	UNF 001

EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Shreveport Plant															
EQT 0038 300-02													0.02	0.02	0.08
EQT 0039 300-05													0.07	0.09	0.32
EQT 0040 300-06													0.07	0.09	0.32
EQT 0041 300-07													0.11	0.14	0.4
EQT 0042 300-12-A													<0.01	<0.01	<0.01
EQT 0043 300-12-B													0.07	0.09	0.32
EQT 0046 300-16-B													0.02	0.02	0.09
EQT 0050 310-03	0.52	0.65	2.27	0.62	0.77	2.71	0.05	0.06	0.21	<0.01	0.01	0.02	0.03	0.04	0.15
EQT 0051 310-04	0.06	0.07	0.25	0.07	0.09	0.30	0.01	0.01	0.02	<0.01	<0.01	<0.01	0.004	0.005	0.02
EQT 0052 310-06	1.22	1.52	5.34	1.45	1.81	6.36	0.11	0.14	0.48	0.01	0.01	0.04	0.08	0.10	0.35
EQT 0053 310-07							0.10	0.13	0.44						
EQT 0054 310-09	0.05	0.07	0.23	0.06	0.08	0.27	0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.02
EQT 0056 330-01-A		15.18			112.00			2.96			1.04			59.98	
EQT 0057 330-03							0.10	0.13	0.44						
EQT 0058 360-01													0.50	0.63	2.19
EQT 0059 360-03							0.10	0.13	0.44						
EQT 0063 600-22													<0.01	<0.01	<0.01
EQT 0111 620-03	0.25	0.31	1.08	0.29	0.37	1.29	0.02	0.03	0.10	<0.01	<0.01	0.01	0.02	0.02	0.07
EQT 0113 140-06	4.97	5.96	21.76	5.92	7.10	25.91	0.45	0.54	1.97	0.04	0.04	0.16	0.33	0.39	1.43
EQT 0115 210-01-B		0.79			158.06			1.45			0.26			0.62	
EQT 0125 140-07	1.80		0.45	0.72		0.18	<0.01		0.001	<0.01		<0.01	0.01		<0.01
EQT 0126 CT-01							0.06	0.07	0.27						
EQT 0127 CT-02							0.05	0.06	0.20						

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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Shreveport Plant															
EQT 0128 CT-03							0.08	0.09	0.33						
EQT 0130 SC-01													0.01	0.01	<0.01
EQT 0131 SC-02A							0.59	0.89	0.384						
EQT 0132 SC-02B							<0.01	<0.01	<0.01						
FUG 0002 360-04							0.05	0.05	0.21						
FUG 0003 900-01													2.56	2.56	11.20
FUG 0004 900-02							2.74	2.74	12.00				6.85	6.85	30.00
FUG 0005 900-03							2.74	2.74	12.00				2.28	2.28	10.00
FUG 0006 900-04													0.01	0.01	0.04
FUG 0007 900-05-A													0.05	0.07	0.23
FUG 0008 900-06							0.57	2.30	2.50						
FUG 0009 900-08													<0.01	<0.01	<0.01
GRP 0005 140-CAP	7.12		31.16	8.47		37.10	0.64		2.82	0.05		0.22	0.47		2.04
GRP 0006 240-09-CAP	6.85		30.00	15.70		68.80	0.42		1.80	0.154		0.675	1.37		6.00
GRP 0010 210-330-CAP	8.17		35.82	40.72		178.48	1.87		8.19	0.97		4.25	48.34		211.75
GRP 0012 CTEC	41.52	124.55	20.90	39.57	118.72	19.90	7.86	23.57	3.96	0.27	0.80	0.14	1.37	4.10	0.69
RLP 0003 240-01	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0004 240-02	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0005 240-03	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0006 240-04	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0007 240-05	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0008 240-06	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0009 240-07	0.20	0.25	0.88	0.254	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05

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EMISSION RATES FOR CRITERIA POLLUTANTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

	CO			NOx			PM10			SO2			VOC		
Subject Item	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year	Avg lb/hr	Max lb/hr	Tons/Year
Shreveport Plant															
RLP 0010 240-08	0.20	0.25	0.88	0.24	0.30	1.05	0.01	0.02	0.07	<0.01	<0.01	0.005	0.01	0.01	0.05
RLP 0011 240-09-B		12.00			45.78			1.27			0.76			4.52	
RLP 0016 340-01	0.46	0.58	2.02	0.55	0.69	2.40	0.04	0.05	0.18	<0.01	<0.01	0.01	0.03	0.04	0.13
RLP 0017 340-02	0.46	0.58	2.02	0.55	0.69	2.40	0.04	0.05	0.18	<0.01	<0.01	0.01	0.03	0.04	0.13
RLP 0018 340-03	0.46	0.58	2.02	0.55	0.69	2.40	0.04	0.05	0.18	<0.01	<0.01	0.01	0.03	0.04	0.13
RLP 0020 620-01							0.25	0.31	1.10						
RLP 0021 620-02	28.21	35.26	123.60	7.03	14.100	30.80	1.18	1.47	5.15	0.17	0.28	0.74	5.39	22.92	23.63
RLP 0022 630-01	3.64	4.55	16.00	5.35	36.00	16.70	0.37	1.20	1.62	0.12	0.18	0.16	1.03	1.08	1.36
RLP 0023 630-02	0.37	0.46	1.62	0.44	0.55	1.93	0.03	0.04	0.15	<0.01	<0.01	0.01	0.02	0.03	0.11
RLP 0024 630-03	0.74	0.93	3.25	0.88	1.10	3.86	0.07	0.08	0.29	0.01	0.01	0.02	0.05	0.06	0.21
RLP 0025 630-04	0.74	0.93	3.25	0.88	1.10	3.86	0.07	0.08	0.29	0.01	0.01	0.02	0.05	0.06	0.21
RLP 0026 630-05							0.21	0.27	0.93						
RLP 0027 630-06	0.37	0.46	1.62	0.44	0.55	1.93	0.03	0.04	0.15	<0.01	<0.01	0.01	0.02	0.03	0.11

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote.

Emission rates Notes:

GRP 0006	PM10	Avg lb/hr	Includes Nickel (and compounds), Cobalt compounds, Copper (and compounds), and Manganese (and compounds).	Which Months: All Year
GRP 0006	PM10	Tons/Year	Includes Nickel (and compounds), Cobalt compounds, Copper (and compounds), and Manganese (and compounds).	Which Months: All Year
RLP 0022	SO2	Tons/Year	. Based on annual operation of 2,640 hours, during which this pollutant is released	Which Months: All Year
RLP 0022	NOx	Tons/Year	. Based on annual operation of 6,240 hours, during which this pollutant is released	Which Months: All Year
RLP 0022	VOC	Tons/Year	. Based on annual operation of 2,640 hours, during which this pollutant is released	Which Months: All Year

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0002 110-01	Hydrochloric acid	0.051	0.086	0.223
	Nitric acid	0.013	0.016	0.057
	Sulfuric acid	0.014	0.016	0.061
EQT 0003 110-02	2,2,4-Trimethylpentane	<0.001	0.010	<0.001
	Ammonia	0.023	0.117	0.103
	Chlorine	<0.001	0.002	0.001
	Cobalt compounds	<0.001	<0.001	<0.001
	Copper (and compounds)	<0.001	<0.001	<0.001
	Hydrochloric acid	0.054	0.090	0.236
	Hydrofluoric acid	0.001	0.003	0.003
	Hydrogen sulfide	<0.001	<0.001	0.001
	Manganese (and compounds)	<0.001	<0.001	<0.001
	Nickel (and compounds)	<0.001	<0.001	<0.001
	Nitric acid	0.020	0.036	0.087
	Sulfuric acid	0.014	0.016	0.061
	Toluene	<0.001	0.036	0.001
EQT 0008 140-05	Ammonia	0.395	0.494	1.732
	Hydrochloric acid	0.052	0.080	0.227
EQT 0011 140-19	Ethyl benzene	<0.001	0.001	0.0024
	Toluene	0.001	0.002	0.010
	Xylene (mixed isomers)	<0.001	<0.001	0.0007
EQT 0016 140-39	Hydrochloric acid	0.100	0.125	0.440
EQT 0019 150-01-A	Nickel (and compounds)	<0.001	0.011	0.001
	Nitric acid	0.004	0.109	0.020
EQT 0020 150-02	Cobalt compounds	0.00006	0.0001	0.0003
	Copper (and compounds)	0.0002	0.0003	0.001
	Manganese (and compounds)	<0.001	<0.001	0.00014
	Nickel (and compounds)	0.0006	0.0007	0.0025
EQT 0021 180-02	Benzene	0.001	0.001	0.004
	Toluene	0.001	0.001	0.004
	Xylene (mixed isomers)	<0.001	<0.001	0.001
EQT 0026 210-01-A	Ammonia		6.980	
	Hydrochloric acid		28.800	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

D: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0026 210-01-A	Hydrofluoric acid		2.200	
EQT 0029 240-09-A	Ammonia		29.300	
	Chlorine		3.000	
	Cobalt compounds		0.014	
	Copper (and compounds)		0.026	
	Hydrochloric acid		3.190	
	Manganese (and compounds)		0.002	
	Nickel (and compounds)		0.006	
	Nitric acid		5.000	
EQT 0030 240-10	Cobalt compounds	0.017	0.044	0.075
	Copper (and compounds)	0.029	0.084	0.127
	Manganese (and compounds)	0.002	0.004	0.009
	Nickel (and compounds)	0.015	0.110	0.067
EQT 0034 270-05	Hydrochloric acid	0.060	3.170	0.263
EQT 0041 300-07	Benzene	0.003	0.004	0.013
	Ethyl benzene	0.007	0.009	0.029
	Toluene	<0.001	<0.001	0.001
EQT 0046 300-16-B	Benzene	<0.001	<0.001	0.001
	Ethyl benzene	0.001	0.001	0.004
	Toluene	<0.001	<0.001	<0.001
EQT 0056 330-01-A	Ammonia		18.210	
	Chlorine		0.030	
	Cobalt compounds		0.002	
	Copper (and compounds)		<0.001	
	Dimethyl formamide		0.012	
	Formaldehyde		1.070	
	Hydrochloric acid		1.000	
	Nickel (and compounds)		0.012	
EQT 0060 410-01	Hydrochloric acid	0.030	0.590	0.131
EQT 0115 210-01-B	Ammonia		7.150	
	Cobalt compounds		0.002	
	Copper (and compounds)		<0.001	
	Hydrochloric acid		28.800	

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
EQT 0115 210-01-B	Hydrofluoric acid		2.200	
	Nickel (and compounds)		0.012	
EQT 0125 140-07	Formaldehyde	0.004		0.001
EQT 0130 SC-01	Formaldehyde	0.0086	0.0129	0.0039
EQT 0132 SC-02B	Hydrochloric acid	0.082	0.123	0.059
FUG 0001 310-08	Hydrogen sulfide	0.100	0.125	0.438
FUG 0003 900-01	Ammonia	2.854	2.900	12.500
FUG 0004 900-02	Ammonia	1.141	1.141	5.000
FUG 0005 900-03	Ammonia	1.141	1.141	5.000
FUG 0006 900-04	Ammonia	0.297	0.297	1.301
FUG 0007 900-05-A	Ammonia	0.297	0.370	1.301
FUG 0009 900-08	Ammonia	0.028	0.028	0.123
GRP 0006 240-09-CAP	Ammonia	6.850		30.003
	Chlorine	0.270		1.190
	Cobalt compounds	0.001		0.006
	Copper (and compounds)	0.002		0.010
	Hydrochloric acid	2.550		11.170
	Manganese (and compounds)	<0.002		0.001
	Nickel (and compounds)	0.001		0.003
	Nitric acid	1.712		7.500
GRP 0010 210-330-CAP	Ammonia	5.510		24.130
	Chlorine	0.014		0.062
	Cobalt compounds	0.001		0.006
	Copper (and compounds)	<0.001		0.001
	Dimethyl formamide	0.008		0.036
	Formaldehyde	0.738		3.232
	Hydrochloric acid	3.740		16.31
	Hydrofluoric acid	1.250		2.200
	Nickel (and compounds)	0.002		0.0084
GRP 0012 CTEC	Ammonia	3.38	10.15	1.70
	Chlorine	1.78	5.33	0.895
	Cobalt compounds	0.18	0.55	0.092
	Copper (and compounds)	0.28	0.84	0.14

EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

D: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
GRP 0012 CTEC	Dimethyl formamide	0.07	0.22	0.037
	Formaldehyde	1.08	3.25	0.547
	Hydrochloric acid	4.14	12.41	2.09
	Hydrofluoric acid	2.798	8.393	1.41
	Manganese (and compounds)	0.02	0.06	0.011
	Nickel (and compounds)	0.06	0.19	0.032
	Nitric acid	2.98	8.93	1.50
RLP 0002 210-02	Ammonia	10.755	96.000	46.987
	Hydrochloric acid	0.362	3.200	1.586
	Hydrofluoric acid	0.625	0.920	0.89
	Nitric acid	1.030	1.290	0.039
RLP 0011 240-09-B	Ammonia		30.800	
	Chlorine		3.000	
	Cobalt compounds		0.014	
	Copper (and compounds)		0.026	
	Hydrochloric acid		3.190	
	Manganese (and compounds)		0.002	
	Nickel (and compounds)		0.006	
	Nitric acid		5.000	
RLP 0012 273-06	Hydrochloric acid	0.160	0.200	0.701
	Nitric acid	0.120	0.150	0.526
RLP 0014 310-02/310-10	Hydrochloric acid	0.260	4.440	1.13
RLP 0019 600-01	Hydrochloric acid	0.100	0.125	0.438
RLP 0021 620-02	Ammonia	3.050	18.560	13.359
	Dimethyl formamide	0.0014	0.010	0.0061
	Formaldehyde	0.760	1.390	3.329
	Hydrochloric acid	0.480	0.600	2.098
RLP 0022 630-01	Ammonia	0.125	0.500	0.550
	Chlorine	0.730	3.000	3.190
	Hydrochloric acid	2.540	15.900	11.125
	Nitric acid	1.000	1.500	0.400
UNF 0001 UOP	2,2,4-Trimethylpentane			<0.001
	Ammonia			143.789

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EMISSION RATES FOR TAP/HAP & OTHER POLLUTANTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

Emission Pt.	Pollutant	Avg lb/hr	Max lb/hr	Tons/Year
UNF 0001 UOP	Benzene			0.018
	Chlorine			5.338
	Cobalt compounds			0.180
	Copper (and compounds)			0.280
	Dimethyl formamide			0.079
	Ethyl benzene			0.035
	Formaldehyde			7.1129
	Hydrochloric acid			48.227
	Hydrofluoric acid			4.503
	Hydrogen sulfide			0.439
	Manganese (and compounds)			0.022
	Nickel (and compounds)			0.1149
	Nitric acid			10.129
	Sulfuric acid			0.122
	Toluene			0.02
	Xylene (mixed isomers)			0.001

Note: Emission rates in bold are from alternate scenarios and are not included in permitted totals unless otherwise noted in a footnote. Emission rates attributed to the UNF reflect the sum of the TAP/HAP limits of the individual emission points (or caps) under this permit, but do not constitute an emission cap.

Emission Rates Notes:

EQT 0026	Hydrofluoric acid	Max lb/hr	Also known as hydrogen fluoride Which Months: All Year
EQT 0115	Hydrofluoric acid	Max lb/hr	Also known as hydrogen fluoride Which Months: All Year
GRP 0010	Hydrofluoric acid	Avg lb/hr	Also known as hydrogen fluoride Which Months: All Year
GRP 0010	Hydrofluoric acid	Tons/Year	Also known as hydrogen fluoride Which Months: All Year
GRP 0012	Hydrochloric acid	Max lb/hr	Also known as hydrogen chloride Which Months: All Year
GRP 0012	Hydrofluoric acid	Avg lb/hr	Also known as hydrogen floride Which Months: All Year
GRP 0012	Hydrofluoric acid	Max lb/hr	Also known as hydrogen floride Which Months: All Year
GRP 0012	Hydrofluoric acid	Tons/Year	Also known as hydrogen floride Which Months: All Year
RLP 0002	Hydrofluoric acid	Avg lb/hr	Also known as hydrogen fluoride Which Months: All Year
RLP 0002	Hydrofluoric acid	Max lb/hr	Also known as hydrogen fluoride Units Which Months: All Year
RLP 0002	Hydrofluoric acid	Tons/Year	Also known as hydrogen fluoride Which Months: All Year
RLP 0022	Nitric acid	Tons/Year	. Based on annual operation of 800 hours, during which this pollutant is released Which Months: All Year
UNF 0001	Hydrofluoric acid	Tons/Year	Also known as hydrogen fluoride Which Months: All Year

TPOR0146

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

CRG 0001 Combust 1 - Boilers, Heaters, Ovens and Dryers

Group Members: EQT 0006 EQT 0007 EQT 0050 EQT 0051 EQT 0052 EQT 0054 EQT 0098 EQT 0103 EQT 0104 EQT 0111 RLP 0003 RLP 0004 RLP 0005 RLP 0006 RLP 0007 RLP 0008 RLP 0009 RLP 0010 RLP 0016 RLP 0017 RLP 0018 RLP 0023 RLP 0024 RLP 0025 RLP 0027

1	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
2	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified

CRG 0002 Filter 99 - 99% Efficient Dust Collectors

Group Members: EQT 0036 EQT 0053 EQT 0057 EQT 0059

3	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
4	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification. Which Months: All Year Statistical Basis: None specified
5	[LAC 33:III.501.C.6]	Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags. Which Months: All Year Statistical Basis: None specified
6	[LAC 33:III.507.H.1.a]	Baghouses (including gaskets): Equipment/operational data monitored by technically sound method upon each occurrence of process unit shutdown or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified
7	[LAC 33:III.507.H.1.a]	Filter vents: Visible emissions recordkeeping by electronic or hard copy daily when in operation. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
8	[LAC 33:III.507.H.1.a]	Filter vents: Visible emissions monitored by visual inspection/determination daily when in operation. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions. Which Months: All Year Statistical Basis: None specified
9	[LAC 33:III.507.H.1.a]	Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever visible emission checks indicate maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified

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AI ID: 17846 - UOP LLC - Shreveport Plant
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CRG 0002 Filter 99 - 99% Efficient Dust Collectors

10	[LAC 33:III.507.H.1.a]	Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken. Which Months: All Year Statistical Basis: None specified
11	[LAC 33:III.507.H.1.a]	Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.

CRG 0004 CFUG-1 - Sump Areas Fugitives

Group Members: FUG 0006 FUG 0007

12	[LAC 33:III.501.C.6]	Ammonia >= 90 % removal efficiency. pH adjustment is used to control emissions. Which Months: All Year Statistical Basis: None specified
13	[LAC 33:III.501.C.6]	pH <= 7.75 s.u. during production activities that generate wastewater containing ammonia and/or trimethylamine and for a period of 72 hours following the cessation of these production activities. Which Months: All Year Statistical Basis: None specified
14	[LAC 33:III.501.C.6]	VOC, Total >= 90 % removal efficiency. pH adjustment is used to control emissions Which Months: All Year Statistical Basis: None specified
15	[LAC 33:III.507.H.1.a]	pH recordkeeping by electronic or hard copy once every four hours. Keep records of pH on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
16	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument once every four hours or a control system acceptable to the Office of Environmental Assessment, Evnironmen Technology Division. Which Months: All Year Statistical Basis: None specified
17	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

CRG 0005 CFUG-2 - SCM Units Fugitives

Group Members: FUG 0004 FUG 0005

18	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

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AI ID: 17846 - UOP LLC - Shreveport Plant
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Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

CRG 0005 CFUG-2 - SCM Units Fugitives

19	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
20	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average
21	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

CRG 0006 EVRALDIgFUG - Evaporator, Vault, Regenration System, Al Digester, and Reduction Unit Fugitives

Group Members: FUG 0001 RLP 0002 RLP 0012 RLP 0014 RLP 0019

22	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0002 110-01 - North Laboratory Fume Scrubber

23	[LAC 33:III.501.C.6]	Sulfuric acid >= 90 % removal efficiency.
24	[LAC 33:III.501.C.6]	Flow rate >= 60 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
25	[LAC 33:III.501.C.6]	pH >= 7.0 s.u. Which Months: All Year Statistical Basis: Four-hour average
26	[LAC 33:III.501.C.6]	Pressure drop >= 0.1 and <= 3.0 inches w.c. (water column).
27	[LAC 33:III.501.C.6]	Nitric acid >= 90 % removal efficiency.
28	[LAC 33:III.501.C.6]	VOC, Total >= 50 % recovery efficiency.
29	[LAC 33:III.501.C.6]	Hydrochloric acid >= 90 % removal efficiency.
30	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media Water/NaOH.
31	[LAC 33:III.507.H.1.a]	pH recordkeeping by electronic or hard copy once every four hours. Keep records of pH on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
32	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
33	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average
34	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
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EQT 0002 110-01 - North Laboratory Fume Scrubber

35	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
36	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
37	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
38	[LAC 33.III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33.III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
39	[LAC 33:III.5109.A]	Only Class III TAPs are emitted. No MACT required.

EQT 0003 110-02 - South Laboratory Fume Scrubber

40	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media Water/NaOH.
41	[LAC 33:III.501.C.6]	VOC, Total >= 50 % recovery efficiency.
42	[LAC 33:III.501.C.6]	Pressure drop >= 0.1 and <= 2.5 inches w.c. (water column).
43	[LAC 33:III.501.C.6]	Ammonia >= 80 % removal efficiency
44	[LAC 33:III.501.C.6]	Chlorine >= 90 % removal efficiency.
45	[LAC 33.III.501.C.6]	Particulate matter (10 microns or less) >= 95 % removal efficiency.
46	[LAC 33.III.501.C.6]	Hydrochloric acid >= 90 % removal efficiency.
47	[LAC 33:III.501.C.6]	Sulfuric acid >= 90 % removal efficiency.
48	[LAC 33:III.501.C.6]	Nitric acid >= 90 % removal efficiency.
49	[LAC 33:III.501.C.6]	pH >= 7.0 s.u. Which Months: All Year Statistical Basis: Four-hour average
50	[LAC 33:III.501.C.6]	Flow rate >= 120 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
51	[LAC 33:III.507.H.1.a]	pH recordkeeping by electronic or hard copy once every four hours. Keep records of pH on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
52	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
53	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average
54	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average

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AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
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EQT 0003 110-02 - South Laboratory Fume Scrubber

55	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
56	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
57	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
58	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
59	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is the gas absorption column scrubber which controls emissions of nickel oxide (Class I TAP) and copper oxide (Class II TAP) at 95% efficiency.

EQT 0008 140-05 - Recycle Water Unit Scrubber Stack

60	[LAC 33:III.2115.K]	Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
61	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media HCl.
62	[LAC 33:III.501.C.6]	Flow rate >= 200 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
63	[LAC 33:III.501.C.6]	Dimethylamine (DMA) >= 98.5 % removal efficiency. Which Months: All Year Statistical Basis: Hourly average
64	[LAC 33:III.501.C.6]	Trimethylamine (TMA) >= 98.5 % removal efficiency.
65	[LAC 33:III.501.C.6]	Ammonia >= 97 % removal efficiency.
66	[LAC 33:III.501.C.6]	Hydrochloric acid >= 0.03 % by weight. Which Months: All Year Statistical Basis: Four-hour average
67	[LAC 33:III.501.C.6]	VOC, Total >= 98.5 % removal efficiency.
68	[LAC 33:III.501.C.6]	Pressure drop >= 0.05 and <= 14 inches w.c. (water column).
69	[LAC 33:III.507.H.1.a]	Hydrochloric acid recordkeeping by electronic or hard copy once every four hours. Keep records of HCl concentration on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
70	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
71	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
72	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

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AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
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EQT 0008 140-05 - Recycle Water Unit Scrubber Stack

73	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
74	[LAC 33:III.507.H.1.a]	% Hydrochloric acid monitored by technically sound method once every four hours. Which Months: All Year Statistical Basis: Single grab
75	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average
76	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B

EQT 0011 140-19 - Diethylbenzene Storage Tank (SV-300-43)

77	[LAC 33:III.5107.A.2]	Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0016 140-39 - Tank No. SV-140-39

78	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0019 150-01-A - Repackaging Area Dust Collector

79	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
80	[LAC 33:III.501.C.6]	Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags. Which Months: All Year Statistical Basis: None specified
81	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification. Which Months: All Year Statistical Basis: None specified
82	[LAC 33:III.507.H.1.a]	Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
83	[LAC 33:III.507.H.1.a]	Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified

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EQT 0019 150-01-A - Repackaging Area Dust Collector

84	[LAC 33:III.507.H.1.a]	Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken. Which Months: All Year Statistical Basis: None specified
85	[LAC 33:III.507.H.1.a]	Filter vents: Visible emissions recordkeeping by electronic or hard copy daily when in operation. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
86	[LAC 33:III.507.H.1.a]	Filter vents: Visible emissions monitored by visual inspection/determination daily when in operation. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions. Which Months: All Year Statistical Basis: None specified
87	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
88	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be the existing dust collector.

EQT 0020 150-02 - No. 8 Warehouse Dust Collector

89	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
90	[LAC 33:III.501.C.6]	Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags. Which Months: All Year Statistical Basis: None specified
91	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 99.9 % removal efficiency from filter manufacturer's certification. Which Months: All Year Statistical Basis: None specified

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AI ID: 17846 - UOP LLC - Shreveport Plant
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EQT 0020 150-02 - No. 8 Warehouse Dust Collector

92	[LAC 33:III.507.H.1.a]	Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken. Which Months: All Year Statistical Basis: None specified
93	[LAC 33:III.507.H.1.a]	Filter vents. Visible emissions monitored by visual inspection/determination daily during operation. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions. Which Months: All Year Statistical Basis: None specified
94	[LAC 33:III.507.H.1.a]	Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified
95	[LAC 33:III.507.H.1.a]	Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily when in operation. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
96	[LAC 33:III.507.H.1.a]	Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
97	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
98	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be this dust collector control system.

EQT 0021 180-02 - Tank No. SV-150-4

99	[LAC 33:III.2103.A]	Equip with a submerged fill pipe.
100	[LAC 33:III.5107.A.2]	Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0022 190-05 - SCM Line 1 Dust Collector

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EQT 0022 190-05 - SCM Line 1 Dust Collector

101	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
102	[LAC 33:III.501.C.6]	Filter vents: Opacity <= 20 percent average of the shade or appearance of the emission during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags. Which Months: All Year Statistical Basis: None specified
103	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 99.5 % removal efficiency from filter manufacturer's certification. Which Months: All Year Statistical Basis: None specified
104	[LAC 33:III.507.H.1.a]	Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified
105	[LAC 33:III.507.H.1.a]	Filter vents: Opacity monitored by technically sound method upon occurrence of event. Monitor during the first ninety seconds of startup of a unit routed to the filter and for one minute following the installation of new bags or the cleaning of existing bags by either a Continuous Monitoring System (COMS) that meets the requirements of 40 CFR 60 Appendix B Performance Specification 1, a qualified, certified visible emissions inspector, in accordance with 40 CFR 60 Appendix A Method 9, or 40 CFR 60 Appendix A Method 22, if the emission point generally exhibits no visible emissions. If Method 22 is used, perform an opacity reading according to 40 CFR 60 Appendix A Method 9 within 1 hour, if visible emissions are present at greater than fifteen percent opacity. Ensure that the BMP plan specifies when opacity readings will be taken in lieu of no visible emissions and the frequency at which readings of percent opacity will be taken. Which Months: All Year Statistical Basis: None specified
106	[LAC 33:III.507.H.1.a]	Filter vents: Equipment/operational data recordkeeping by electronic or hard copy daily when in service. Keep the purchase order or manufacturer certification showing that the installed filters meet the Manufacturer's specification for particulate matter removal efficiency or the filter MERV rating, as applicable; records of visible emissions checks or differential pressure gauge readings, as applicable; and records of maintenance activities. Keep records on site for a period of at least five years and available for review by the Office of Environmental Compliance.
107	[LAC 33:III.507.H.1.a]	Filter vents: Visible emissions monitored by visual inspection/determination daily during operation. If visible emissions are observed, return the filter to compliance as expeditiously as practicable, but at a maximum within three working days, in accordance with good air pollution control practices for minimizing emissions. Which Months: All Year Statistical Basis: None specified
108	[LAC 33:III.507.H.1.a]	Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.

EQT 0026 210-01-A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0026 210-01-A - SCM Line 1 Oxidizer Oven (Batch SCM Oxidizer Oven)

109	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
110	[LAC 33:III.1311.B]	Total suspended particulate. The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
111	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
112	[LAC 33:III.507.H.1.a]	Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO2 / ton 100% H2SO4, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H2SO4 was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
113	[LAC 33:III.507.H.1.a]	Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources; Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources; Method 25A - Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer; Method 6C - Determination of Sulfur Dioxide Emissions from Stationary Sources, and Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
114	[LAC 33:III.507.H.1.a]	Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
115	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0029 240-09-A - Conical Evaporators Fume Scrubber

116	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
117	[40 CFR 64.6(c)(1)]	Pressure drop monitored by technically sound method once every 15 minutes. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
118	[40 CFR 64.6(c)(2)]	Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
119	[40 CFR 64.6(c)(4)]	Pressure drop recordkeeping by electronic or hard copy once every 15 minutes. [40 CFR 64.6(c)(4)]

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0029 240-09-A - Conical Evaporators Fume Scrubber

120	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
121	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
122	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
123	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
124	[40 CFR 64.7(e)]	Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the pressure drop range for which, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(c)]
125	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
126	[40 CFR 64.9(b)(1)]	Flow rate recordkeeping by electronic or hard copy once every 15 minutes. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
127	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
128	[40 CFR 64.9(b)(1)]	pH recordkeeping by electronic or hard copy once every 15 minutes. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
129	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
130	[LAC 33:III.501.C.6]	Nitric acid >= 50 % removal efficiency.
131	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 95 % removal efficiency.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0029 240-09-A - Conical Evaporators Fume Scrubber

132	[LAC 33:III.501.C.6]	Operating plan: During the production of catalysts that result in the emission of acidic compounds (HCl and Cl2), the process gases are scrubbed with a caustic solution (NaOH). During the production of catalysts that result in the emission of ammonia (NH3), and when the SCR NOX removal system is not in operation, the process gases are scrubbed with water. During the production of catalysts that result in the emission of NH3, and when the SCR NOX removal system is in service, no control of scrubbing media control quality (pH or % NaOH) is needed because the SCR NOX removal system consumes the NH3 emissions. During the production of catalysts that do not result in emissions of either acidic compounds or NH3, no control of scrubbing media control quality (pH or % NaOH) is required.
133	[LAC 33:III.501.C.6]	pH >= 9.0 s.u. when sodium hydroxide is the scrubbing meda. Which Months: All Year Statistical Basis: Hourly average
134	[LAC 33:III.501.C.6]	Flow rate >= 70 gallons/min. Which Months: All Year Statistical Basis: Hourly average
135	[LAC 33:III.501.C.6]	Pressure drop >= 4 and <= 12 inches w.c. (water column).
136	[LAC 33:III.501.C.6]	Hydrochloric acid >= 95 % removal efficiency.
137	[LAC 33:III.501.C.6]	Ammonia >= 80 % removal efficiency.
138	[LAC 33:III.501.C.6]	Chlorine >= 95 % removal efficiency.
139	[LAC 33:III.507.H.1.a]	pH <= 8.0 s.u. when water is the scrubbing media. Which Months: All Year Statistical Basis: Hourly average
140	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument once every 15 minutes. Which Months: All Year Statistical Basis: None specified
141	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every 15 minutes. Which Months: All Year Statistical Basis: Hourly average
142	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
143	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
144	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is the gas absorption column scrubber which controls emissions of nickel oxide (Class I TAP) and copper oxide (Class II TAP) at 95% efficiency. Stack testing data reported to DEQ December 2003.

EQT 0030 240-10 - Catalyst Dust Collector

145	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0030 240-10 - Catalyst Dust Collector

146	[40 CFR 64.4(e)]	Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
147	[40 CFR 64.6(c)(1)]	Visible emissions monitored by technically sound method daily during operation. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
148	[40 CFR 64.6(c)(2)]	An excursion or exceedance is defined as the presence of any visible emissions. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
149	[40 CFR 64.6(c)(2)]	Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
150	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
151	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
152	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the dust collecting unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
153	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
154	[40 CFR 64.7(e)]	Submit written notification: Due to the Office of Environmental Compliance within 72 hours upon identifying a failure to achieve compliance with the no visible emissions, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
155	[40 CFR 64.8(a)]	A total of 20 hours of downtime of the collector per year, while the unit is in operation, or a total of 168 hours/yr of exceedances, is the threshold limit of excursions or exceedances at which implementation of a QIP is required. [40 CFR 64.8(a)]
156	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0030 240-10 - Catalyst Dust Collector

157	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
158	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
159	[40 CFR 64.9(b)(1)]	Visible emissions recordkeeping by electronic or hard copy daily when in service. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
160	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
161	[LAC 33:III.501.C.6]	Aluminum oxide, Cobalt compounds, Copper (and compounds), Manganese (and compounds), Nickel (and compounds), Particulate matter (10 microns or less) >= 99 % removal efficiency from filter manufacturer's certification. Which Months: All Year Statistical Basis: None specified
162	[LAC 33:III.507.H.1.a]	Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified
163	[LAC 33:III.507.H.1.a]	Baghouses (including gaskets): Equipment/operational data monitored by technically sound method semiannually or whenever a visible emissions check indicates maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified
164	[LAC 33:III.507.H.1.a]	Baghouses: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and maintenance activities on site for a period of at least five years and available for inspection by the Office of Environmental Compliance.
165	[LAC 33:III.507.H.1.a]	Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
166	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
167	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. This dust collector is MACT and operates with a 99% removal efficiency for copper (and compounds), manganese (and compounds) and nickel (and compounds). Stack testing data reported to DEQ Sept 1990.

EQT 0034 270-05 - Tank Farm Fume Scrubber

168	[LAC 33:III.501.C.6]	Pressure drop >= 0.3 and <= 3.8 inches w.c. (water column).
169	[LAC 33:III.501.C.6]	Sodium Hydroxide >= 1.0 % by weight Which Months: All Year Statistical Basis: Single grab

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0034 270-05 - Tank Farm Fume Scrubber

170	[LAC 33:III.501.C.6]	Flow rate >= 8 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
171	[LAC 33:III.501.C.6]	Hydrochloric acid >= 85 % removal efficiency. Which Months: All Year Phases: Statistical Basis:
172	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media NaOH.
173	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
174	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average
175	[LAC 33:III.507.H.1.a]	% Sodium Hydroxide monitored by grab sampling once every four hours. Which Months: All Year Statistical Basis: Single grab
176	[LAC 33:III.507.H.1.a]	Sodium Hydroxide recordkeeping by electronic or hard copy once every four hours. Keep records of NaOH concentration on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
177	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
178	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
179	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
180	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0041 300-07 - Feed Storage Tank (SV-300-49)

181	[LAC 33:III.5107.A.2]	Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0046 300-16-B - Railcar/Truck - Loading/Unloading

182	[LAC 33:III.5107.A.2]	Emits Class I and/or Class II TAP less than the MER (facility wide). Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0056 330-01-A - SCM Scrubber Stack

183	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0056 330-01-A - SCM Scrubber Stack

184	[40 CFR 64.6(c)(1)]	Flow rate monitored by technically sound method once every 15 minutes. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
185	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
186	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
187	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
188	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
189	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
190	[40 CFR 64.9(b)(1)]	pH recordkeeping by electronic or hard copy once every 15 minutes. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
191	[40 CFR 64.9(b)(1)]	pH recordkeeping by electronic or hard copy once every 15 minutes. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
192	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
193	[LAC 33:III.1311.B]	Total suspended particulate: Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
194	[LAC 33:III.2115.K]	Equipment/operational data recordkeeping by electronic or hard copy as needed. Maintain records to demonstrate that the criteria are being met for any exemption claimed. Maintain records on the premises for at least two years and make such information available to representatives of the Louisiana Department of Environmental Quality and the Environmental Protection Agency upon request.
195	[LAC 33:III.501.C.6]	Ammonia >= 99 % removal efficiency by spray tower and 96% removal efficiency by cyclone.
196	[LAC 33:III.501.C.6]	Nickel (and compounds) >= 70 % removal efficiency by wet scrubber.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0056 330-01-A - SCM Scrubber Stack

197	[LAC 33:III.501.C.6]	Aluminum Oxide >= 99 % removal efficiency by spray tower and 96% removal efficiency by cyclone.
198	[LAC 33:III.501.C.6]	VOC, Total >= 50 % removal efficiency.
199	[LAC 33:III.501.C.6]	Trimethylamine (TMA) >= 98 % removal efficiency by wet scrubber. Which Months: All Year Phases: Statistical Basis:
200	[LAC 33:III.501.C.6]	pH <= 6.5 s.u. Which Months: All Year Statistical Basis: Hourly average
201	[LAC 33:III.501.C.6]	Flow rate >= 650 gallons/min. Which Months: All Year Statistical Basis: Hourly average
202	[LAC 33:III.501.C.6]	Pressure drop >= 10 and <= 20 inches w.c. (water column).
203	[LAC 33:III.501.C.6]	Dimethylamine (DMA) >= 98 % removal efficiency by wet scrubber. Which Months: All Year Phases: Statistical Basis:
204	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media HCl.
205	[LAC 33:III.501.C.6]	Cobalt compounds >= 70 % removal efficiency.
206	[LAC 33:III.501.C.6]	Dimethyl formamide >= 50 % removal efficiency by wet scrubber.
207	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate 40 CFR Part 70 General Conditions K and R. [LAC 33:III.507.H.1.a]
208	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every 15 minutes. Which Months: All Year Statistical Basis: Hourly average
209	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every 15 minutes. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
210	[LAC 33:III.507.H.1.a]	Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources; Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources; Method 25A - Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer; Method 6C - Determination of Sulfur Dioxide Emissions from Stationary Sources; and Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.
211	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument once every 15 minutes. Which Months: All Year Statistical Basis: Hourly average
212	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every 15 minutes. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
213	[LAC 33:III.507.H.1.a]	Cyclone: Equipment/operational data monitored by visual, audible, and/or olfactory at no required frequency or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0056 330-01-A - SCM Scrubber Stack

214	[LAC 33:III.507.H.1.a]	Cyclone: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and operating controls, specified by the manufacturer, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
215	[LAC 33:III.507.H.1.a]	Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
216	[LAC 33:III.507.H.1.a]	Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO2 / ton 100% H2SO4, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H2SO4 was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
217	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
218	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is the gas absorption column scrubber which controls emissions of nickel oxide (Class I TAP) and copper oxide (Class II TAP) at 70% efficiency.

EQT 0060 410-01 - Tank Farm HCl Fume Scrubber

219	[LAC 33:III.501.C.6]	Hydrochloric acid >= 95 % removal efficiency. Which Months: All Year Phases: Statistical Basis:
220	[LAC 33:III.501.C.6]	Hydrochloric acid >= 95 % removal efficiency.
221	[LAC 33:III.501.C.6]	Flow rate >= 8 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
222	[LAC 33:III.501.C.6]	Pressure drop >= 5 and <= 10 inches w.c. (water column).
223	[LAC 33:III.501.C.6]	Sodium Hydroxide >= 1.0 % by weight. Which Months: All Year Statistical Basis: Single grab
224	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media Water/NaOH
225	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average
226	[LAC 33:III.507.H.1.a]	% Sodium Hydroxide monitored by grab sampling once every four hours. Which Months: All Year Statistical Basis: Single grab
227	[LAC 33:III.507.H.1.a]	Sodium Hydroxide recordkeeping by electronic or hard copy once every four hours. Keep records of NaOH concentration on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
228	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0060 410-01 - Tank Farm HCl Fume Scrubber

229	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
230	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
231	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
232	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0071 270-05-SV-440-17 - HCl Storage Tank

233	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0072 270-05-SV-440-18 - HCl Storage Tank

234	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0083 410-01-SV-290-32 - 36% HCl Storage Tank

235	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0084 410-01-SV-240-59 - 36% HCl Storage Tank

236	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0085 410-01-SV-280-29 - 36% HCl Storage Tank

237	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0086 620-02-SV-272-5 - 36% HCl Storage Tank

238	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0087 620-02-SV-272-6 - 36% HCl Storage Tank

239	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

EQT 0096 TMP961 - SCM Lines 1 and 2 Calciners

240	[LAC 33:III.501.C.6]	The feed and discharge vent of each calciner discharge into a common stack, SCM Scrubber Stack (EQT056 - Emission Point No. 330-01-A).
241	[LAC 33:III.507.H.1.a]	Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing.
242	[LAC 33:III.507.H.1.a]	Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO2 / ton 100% H2SO4, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H2SO4 was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity.
243	[LAC 33:III.507.H.1.a]	Conduct a performance/emissions test: Due within five years, plus or minus 6 months, of when the previous performance test was performed, or within 180 days after the issuance of a permit renewal, whichever comes later. The stack test's purpose is to demonstrate compliance with the emission limits of this permit and therefore must be conducted at greater than 80% of permitted maximum capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A, Method 7E - Determination of Nitrogen Oxides Emissions from Stationary Sources; Method 10 - Determination of Carbon Monoxide Emissions from Stationary Sources; Method 25A - Determination of Total Gaseous Organic Concentration using a Flame Ionization Analyzer; Method 6C - Determination of Sulfur Dioxide Emissions from Stationary Sources; and Method 5 - Determination of Particulate Matter Emissions from Stationary Sources. Use alternate stack tests methods only with the prior approval of the Office of Environmental Assessment. As required by LAC 33:III.913, provide necessary sampling ports in stacks or ducts and such other safe and proper sampling and testing facilities for proper determination of the emission limits.

EQT 0113 140-06 - No. 5 Steam Boiler

244	[40 CFR 60.48c(a)]	Submit notification: Due as specified in 40 CFR 60.7. Submit the date of construction or reconstruction and actual startup. Include the information specified in 40 CFR 60.48c(a)(1) through (a)(4) as applicable. Subpart Dc. [40 CFR 60.48c(a)]
245	[40 CFR 60.48c(g)(1)]	Fuel rate recordkeeping by electronic or hard copy daily. Keep records of the amount of each fuel combusted during each day. Subpart Dc. [40 CFR 60.48c(g)(1)]
246	[40 CFR 60.48c(i)]	Maintain all records required under 40 CFR 60.48c for a period of 2 years following the date of such record. Subpart Dc. [40 CFR 60.48c(i)]
247	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
248	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0115 210-01-B - Line 1 SCR Vent

249	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
250	[40 CFR 64.6(c)(1)]	Outlet concentration of Nitrogen oxides monitored by technically sound method once every 15 minutes. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
251	[40 CFR 64.6(c)(4)]	Outlet concentration of Nitrogen oxides recordkeeping by electronic or hard copy once every 15 minutes. [40 CFR 64.6(c)(4)]
252	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
253	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
254	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the SCR unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
255	[40 CFR 64.7(d)(1)]	Restore operation of the SCR unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
256	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
257	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
258	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
259	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
260	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
261	[LAC 33:III.501.C.6]	Nitrogen dioxide >= 80 % removal efficiency.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0115 210-01-B - Line 1 SCR Vent

262	[LAC 33:III.507.H.1.a]	Inlet concentration of Nitrogen dioxide monitored by analyzer once every 15 minutes when the process emissions are being routed to this equipment (SCR). The SCR is equipped with two Nitrogen oxide analyzers one at the incoming process gas stream line and the other at the SCR outlet vent. Therefore, should the outlet analyzer malfunction, mass balance along with the average SCR NOx reduction efficiency, derived from the analyzers historical recorded data, shall be employed to calculate and record the NOx concentration at the SCR outlet vent for the duration of the analyzer malfunction. Timely document when and why the SCR is not in use (malfunctions and/or process emissions are routed to either one of the two SCM Line 1 control systems: the scrubber or the thermal oxidizer) and when it is put back in use. Which Months: All Year Statistical Basis: None specified
263	[LAC 33:III.507.H.1.a]	Inlet concentration of Nitrogen dioxide recordkeeping by electronic or hard copy once every 15 minutes when the process emissions are being routed to this equipment (SCR). In the event the outlet analyzer malfunctions, record the NOx concentration at the SCR outlet vent. Calculate NOx emissions using a mass balance along with the average SCR NOx reduction efficiency derived from the analyzers historical recorded data. Timely document when and why the SCR is not in use (malfunctions and/or process emissions are routed to either one of the two SCM Line 1 control systems: the scrubber or the thermal oxidizer) and when it is put back in use. Keep records on site for at least five years. Make records available for inspection by DEQ personnel.
264	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
265	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be the in line filter bed through which the stream passes prior to entering the pre-heater and then the SCR system.

EQT 0125 140-07 - Cummins GM3.0 L Emergency Generator

266	[40 CFR 60.4233(d)]	Hydrocarbons and Nitrogen oxides <= 10 g/BHP-hr (0.022 lb/HP-hr). Subpart JJJJ. [40 CFR 60.4233(d)] Which Months: All Year Statistical Basis: None specified
267	[40 CFR 60.4233(d)]	Carbon monoxide <= 387 g/BHP-hr (0.853 lb/HP-hr). Subpart JJJJ. [40 CFR 60.4233(d)] Which Months: All Year Statistical Basis: None specified
268	[40 CFR 60.4234]	Operate and maintain stationary SI ICE to achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. Subpart JJJJ.
269	[40 CFR 60.4237]	Operating time monitored by hour/time monitor continuously during operation, if the engine does not meet the standards applicable to non-emergency engines. Install a non-resettable hour meter upon startup of engine. Subpart JJJJ. Which Months: All Year Statistical Basis: None specified
270	[40 CFR 60.4243(b)(1)]	Ensure engine is certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year Demonstrate compliance according to one of the methods specified in 40 CFR 60.4243(a). Subpart JJJJ. [40 CFR 60.4243(b)(1)]

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0125 140-07 - Cummins GM3.0 L Emergency Generator

271	[40 CFR 60.4243(d)]	Operate for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Limit maintenance checks and readiness testing to 100 hours per year. Operate up to 50 hours per year in non-emergency situations, but count those 50 hours towards the 100 hours per year provided for maintenance and testing. Do not use the 50 hours per year for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. Do not operate for any reason other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in 40 CFR 60.4243(d). Subpart JJJJ. [40 CFR 60.4243(d)]
272	[40 CFR 60.4245(b)]	Operating time recordkeeping by electronic or hard copy upon occurrence of event, if the engine does not meet the standards applicable to non-emergency engines. Keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. Document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. Subpart JJJJ. [40 CFR 60.4245(b)]
273	[40 CFR 63.6590(c)]	Meet the requirements of 40 CFR 60 Subpart JJJJ for spark ignition engines. Subpart ZZZZ. [40 CFR 63.6590(c)]
274	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during the cleaning of a fire box or building of a new fire, soot blowing or lancing, charging of an incinerator, equipment changes, ash removal or rapping of precipitators, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
275	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: Six-minute average

EQT 0126 CT-01 - RWT/Reduction Cooling Tower

276	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0127 CT-02 - SCM Line 1 & 2 Cooling Tower

277	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0128 CT-03 - SCM Line 3 Cooling Tower

278	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

EQT 0130 SC-01 - Production of Specialty Coating Material

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

EQT 0130 SC-01 - Production of Specialty Coating Material

279	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
280	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be the two existing chillers. Note that the reported emission estimates assume no control.

EQT 0131 SC-02A - Production of Specialty Catalyst - Preparation

281	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average

EQT 0132 SC-02B - Production of Specialty Catalyst - Process

282	[LAC 33:III.1311.C]	Opacity <= 20 percent; except emissions may have an average opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes. Which Months: All Year Statistical Basis: Six-minute average
283	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

FUG 0002 360-04 - Sarex Unit Fugitive Emissions

284	[LAC 33:III.1305]	Prevent particulate matter from becoming airborne by taking all reasonable precautions. These precautions shall include, but not be limited to, those specified in LAC 33:III.1305.A.1-7.

FUG 0003 900-01 - Waste Water Pond Area Fugitives

285	[LAC 33:III.501.C.6]	Ammonia >= 90 % removal efficiency. pH adjustment is used to control emissions. Which Months: All Year Statistical Basis: None specified
286	[LAC 33:III.501.C.6]	pH <= 7.75 s.u. Which Months: All Year Statistical Basis: None specified
287	[LAC 33:III.501.C.6]	VOC, Total >= 90 % removal efficiency. pH adjustment is used to control emissions. Which Months: All Year Statistical Basis: None specified
288	[LAC 33:III.507.H.1.a]	pH recordkeeping by electronic or hard copy once every four hours. Keep records of pH on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
289	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument once every four hours or a control system acceptable to the Office of Environmental Assessment, Environmental Technology Division. Which Months: All Year Statistical Basis: None specified

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

FUG 0003 900-01 - Waste Water Pond Area Fugitives

290	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

FUG 0008 900-06 - Spent Catalyst Area Fugitives

291	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.

FUG 0009 900-08 - New SCM Sump Fugitives (SCM Line 3)

292	[LAC 33:III.501.C.6]	pH <= 7.75 s.u. During production activities that generate waste water containing ammonia and/or trimethylamine and for a period of 72 hours following the cessation of these production activities. Which Months: All Year Statistical Basis: None specified
293	[LAC 33:III.501.C.6]	Trimethylamine (TMA) >= 99 % removal efficiency. Emissions vent to scrubber, 620-02; pH adjustment is used to further control emissions. Which Months: All Year Statistical Basis: None specified
294	[LAC 33:III.507.H.1.a]	pH monitored by pH instrument continuously or a control system acceptable to the Office of Environmental Assessment, Evnironmental Technology Division. Which Months: All Year Statistical Basis: Value
295	[LAC 33:III.507.H.1.a]	pH recordkeeping by electronic or hard copy once every four hours. Keep records of pH on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
296	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

GRP 0002 Desorb1 - Desorbent Loading/Unloading Unit

Group Members: EQT 0009 EQT 0010 EQT 0011 EQT 0037 EQT 0038 EQT 0039 EQT 0040 EQT 0041 EQT 0043 EQT 0046

297	[40 CFR 61.110]	Maintain records as specified in 40 CFR 61.246(i). Subpart J.
298	[40 CFR 61.305(i)]	Equipment/operational data recordkeeping by electronic or hard copy annually. Record the information specified in 40 CFR 61.305(i)(1) through (i)(4), as a minimum. Make the information available if requested. Subpart BB. [40 CFR 61.305(i)]
299	[40 CFR 61.305(i)]	Submit report: Due the first year after promulgation of 40 CFR 61 Subpart BB. Submit a report containing the information specified in 40 CFR 61.305(i)(1) through (i)(4) to the Director of the Emission Standards Division, (MD-13), U.S. Environmental Protection Agency, Research Triangle Park, North Carolina 27711. After the first year, no reporting is required. Subpart BB. [40 CFR 61.305(i)]

GRP 0004 SpenCat1 - Spent Catalyst Processing

Group Members: EQT 0036 FUG 0008

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
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GRP 0004 SpenCat1 - Spent Catalyst Processing

300	[40 CFR 63.680(d)(1)]	Meet the requirements specified in 40 CFR 63.680(d)(1) through (d)(3) for an exemption from the requirements of 63.682 through 63.699. Subpart DD. [40 CFR 63.680(d)(1)]
301	[40 CFR 63.680(d)(2)]	Submit Report: Due whenever there is a change in the quantity or composition of the off-site material received that could cause the total annual HAP (benzene) quantity in the off-site material received to exceed the limit of 1 Mg/yr (1.1 ton/yr). Subpart DD. [40 CFR 63.680(d)(2)]
302	[40 CFR 63.680(d)(3)]	HAP recordkeeping by electronic or hard copy as needed. Maintain documentation to support the determination of the total annual HAP quantity in the off-site material received. Documentation must include the basis and data used for determining the HAP content of the off-site material. [40 CFR 63.680(d)(3)]
303	[LAC 33:III.501.C.6]	Spent catalyst Operating time <= 2640 hr/yr on SCM Line 2 (240-09-A) and SCM Line 3 (630-01) together, and three oxidizer ovens. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if spent catalyst (high chloride content 4.5% avg) processing on SCM Lines 2 and 3 oxidizer ovens, Emission Points 240-09-A, and 630-01 exceeds the maximum listed in this specific condition. Which Months: All Year Statistical Basis: Annual total•
304	[LAC 33:III.507.H.1.a]	Spent catalyst Operating time monitored by inventory records and calculations upon each occurrence of spent catalyst processing. Which Months: All Year Statistical Basis: Annual total
305	[LAC 33:III.507.H.1.a]	Spent catalyst processing rate and Operating time recordkeeping by electronic or hard copy upon each occurrence of spent catalyst processing. Keep records of the total spent catalyst processing rate and operating hours each catalys campaign, as well as the total spent catalyst processing rate and operating hours for the last twelve months. Make records available for inspection by DEQ personnel.

GRP 0005 140-CAP - Boilers 140-3 and 140-4 Emissions CAP

Group Members: EQT 0006 EQT 0007

306	[LAC 33:III.501.C.6]	Total Maximum Annual Input Heat <= 756.86 billion BTU/yr for Boiler Nos. 3 and 4, combined; and the total calculated emissions of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, and total VOC shall not exceed the Boiler CAP. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if the total heat input exceeds the maximum listed in this specific condition for any twelve consecutive month period and if the total calculated emissions exceed the Boiler CAP. Which Months: All Year Statistical Basis: None specified
307	[LAC 33:III.501.C.6]	Total Maximum Hourly Input Heat <= 108 MM BTU/hr for Boiler Nos. 3 and 4. Which Months: All Year Statistical Basis: None specified
308	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March. Report the total annual heat input for Boiler Nos. 3 and 4 for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
309	[LAC 33:III.507.H.1.a]	Emissions of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, and VOC, Total monitored by calculations monthly. Which Months: All Year Statistical Basis: None specified
310	[LAC 33:III.507.H.1.a]	Annual Input Heat recordkeeping by electronic or hard copy monthly. Keep records of the heat input to the boilers each month, as well as the total heat input for the last consecutive twelve months. Make records available for inspection by DEQ personnel, Office of Environmental Compliance, Surveillance Division.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
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GRP 0005 140-CAP - Boilers 140-3 and 140-4 Emissions CAP

311	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March. Report the total calculated emissions of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, and total VOC, in tons per year, from Boiler Nos. 3, and 4 for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
312	[LAC 33:III.507.H.1.a]	Input Heat monitored by technically sound method continuously at Boiler Nos. 3 and 4. Which Months: All Year Statistical Basis: None specified
313	[LAC 33:III.507.H.1.a]	Hourly Input Heat recordkeeping by electronic or hard copy daily. Keep records of the hourly heat input to the boilers daily, as well as the total heat input for each boiler, monthly. Make records available for inspection by DEQ personnel, Office of Environmental Compliance, Surveillance Division.
314	[LAC 33:III.507.H.1.a]	Calculated emissions, in tons per year, of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, Carbon monoxide, and VOC, Total recordkeeping by electronic or hard copy monthly. Keep records of the heat input to the boilers each month, as well as the total heat input for the last consecutive twelve months. Make records available for inspection by DEQ personnel, Office of Environmental Compliance, Surveillance Division.

GRP 0006 240-09-CAP - SCM Line 2 (240-09-A, 240-09-B) Emissions CAP

Group Members: EQT 0029 RLP 0011

315	[LAC 33:III.501.C.6]	Ammonia >= 80 % removal efficiency.
316	[LAC 33:III.501.C.6]	Production rate: The total calculated emissions of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, total VOCs, Hydrochloric acid, Ammonia, Nitric acid, Chlorine, Nickel (and compounds), Cobalt compounds, Copper (and compounds) and Manganeses (and compounds) at the Conical Evaporators Fume Scrubber (EQT029, 240-09-A) and the SCR Vent (RLP011, 240-09-B) shall not exceed the SCM Line 2 CAP emission rates of 1.80, 0.675, 68.80, 30.00, 6.00, 11.170, 30.003, 7.500, 1.190, 0.003, 0.006, 0.010 and 0.001 ton/yr, respectively. Noncompliance with any of these limitations is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if any pollutant's total calculated emission rate exceeds the maximum listed in the SCM line 2 CAP; and if the hourly emission rate exceeds the maximum limit listed in the Emission Rate table for the Conical Evaporators Fume Scrubber and the SCR Vent.
317	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 95 % removal efficiency which includes Nickel (and compounds), Cobalt compounds, Copper (and compounds) and Manganese (and compounds).
318	[LAC 33:III.501.C.6]	Nitric acid >= 50 % removal efficiency.
319	[LAC 33:III.501.C.6]	Nitrogen oxides >= 80 % removal efficiency due to catalytic reduction.
320	[LAC 33:III.501.C.6]	Calculated emissions, in tons per year, of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, Hydrochloric acid, Ammonia, Nitric acid, Chlorine, Nickel (and compounds), Cobalt compounds, Copper (and compounds) and Manganeses (and compounds) VOC, Total recordkeeping by electronic or hard copy monthly. Keep records of the hourly emissions of each pollutant, each month, as well as the total emissions, in tons per year, for each pollutant for the last consecutive twelve months. Make records available for inspection by DEQ personnel, Office of Environmental Compliance, Surveillance Division.
321	[LAC 33:III.501.C.6]	Hydrochloric acid >= 95 % removal efficiency.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
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Permit Number: 0500-00020-V5
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GRP 0006 240-09-CAP - SCM Line 2 (240-09-A, 240-09-B) Emissions CAP

322	[LAC 33:III.507.H.1.a]	Oxidized catalyst Production rate recordkeeping by electronic or hard copy upon each occurrence of a catalyst production campaign. Keep records of the production of all catalyst types and the associated emissions, derived from mass balance calculations, as well as the total production and total calculated emissions for the year. Make records available for inspection by DEQ personnel.
323	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March. Report the total calculated emissions of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, total VOCs, Hydrochloric acid, Ammonia, Nitric acid, Chlorine, Nickel (and compounds), Cobalt compounds, Copper (and compounds) and Manganeses (and compounds), in tons per year, from the Conical Evaporators Fume Scrubber (EQT029, 240-09-A) and the SCR Vent (RLP011, 240-09-B) for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.
324	[LAC 33:III.507.H.1.a]	Oxidized catalyst Production rate monitored by technically sound method continuously. Which Months: All Year Statistical Basis: None specified

GRP 0009 SCBR - Scrubbers

Group Members: EQT 0056 EQT 0060 RLP 0019 RLP 0021 RLP 0022 EQT 0002 EQT 0003 EQT 0008 EQT 0029 EQT 0034

325	[LAC 33:III.507.H.1.a]	Testing was performed to confirm proposed pH level of wastewater to control fugitive ammonia and VOC emissions, and rectification system efficiency. The test report for sumps/rectification system testing was submitted to LDEQ 07/14/1992.
326	[LAC 33:III.507.H.1.a]	Testing was perform to confirm proposed efficiencies of scrubbers. The required scrubber testing was performed August 1992, October 1992, January 1993, and February 1993. Testing reports were submitted to LDEQ December 1992 and April 1993.

GRP 0010 210-330-CAP - Line 1 Emission Control CAP

Group Members: EQT 0026 EQT 0056 EQT 0115

327	[LAC 33:III.507.H.1.a]	Oxidized catalyst Production rate monitored by technically sound method continuously. Which Months: All Year Statistical Basis: None specified
328	[LAC 33:III.507.H.1.a]	Production rate: The total calculated emissions over any twelve month period, of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, total VOCs, Hydrochloric acid, Ammonia, Nitric acid, Chlorine, Nickel (and compounds), Cobalt compounds and Copper (and compounds) at the SCM Line 1 Oxidizer Oven (EQT026, 210-01-A), the Line 1 SCR Vent (EQT115, 210-01-B) and the SCM Scrubber Stack (EQT056, 330-01-A) shall not exceed the Line 1 Emission Control CAP rates. Noncompliance with this limitation is a reportable violation of the permit. Notify the Office of Environmental Compliance, Enforcement Division if any pollutant's total yearly calculated emission rate exceeds the maximum listed in the Line 1 Emission Control CAP; and if the hourly emission rate exceeds the maximum limit listed in the Emission Rate table for the SCM Line 1 Oxidizer Oven, the Line 1 SCR Vent and the SCM Scrubber Stack.
329	[LAC 33:III.507.H.1.a]	Oxidized catalyst Production rate recordkeeping by electronic or hard copy upon each occurrence of a catalyst production campaign Keep records of the production of all catalyst types and the associated emissions, derived from mass balance calculations, as well as the total production and total calculated emissions for the year. Make records available for inspection by DEQ personnel

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
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GRP 0010 210-330-CAP - Line 1 Emission Control CAP

330	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March. Report the total calculated emissions of Particulate matter (10 microns or less), Sulfur dioxide, Nitrogen oxides, CO, total VOCs, Hydrochloric acid, Ammonia, Nitric acid, Chlorine, Nickel (and compounds), Cobalt compounds and Copper (and compounds), in tons per year, from the SCM Line 1 Oxidizer Oven (EQT026, 210-01-A), the Line 1 SCR Vent (EQT115, 210-01-B) and the SCM Scrubber Stack (EQT056, 330-01-A) for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

GRP 0012 CTEC - Catalyst Trial Emissions CAP

Group Members: EQT 0026 EQT 0029 EQT 0030 EQT 0056 EQT 0111 EQT 0115 RLP 0002 RLP 0011 RLP 0020 RLP 0021 RLP 0022 RLP 0026

331	[LAC 33:III.501.C.6]	For each catalyst emission run identify the line used, calculate or estimate, as applicable, the corrresponding individual emissions and record those under the respective actual release points.
332	[LAC 33:III.501.C.6]	Equipment/operational data recordkeeping by electronic or hard copy monthly. Keep records of the total of the individual pollutant each month, as well as the total of the individual pollutanst for the last twelve months on site for five years. Make records available for inspection by DEQ personnel.
333	[LAC 33:III.501.C.6]	Notify the Regional Office five days prior to performing a trial run.
334	[LAC 33:III.501.C.6]	Submit report: Due annually, by the 31st of March. Report the totals for the individual pollutants under this group for the preceding calendar year to the Office of Environmental Compliance, Enforcement Division.

RLP 0011 240-09-B - Line 2 SCR Vent

335	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
336	[40 CFR 64.4(e)]	Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
337	[40 CFR 64.6(c)(1)]	Outlet concentration of Nitrogen oxides monitored by technically sound method once every 15 minutes. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: Hourly average
338	[40 CFR 64.6(c)(2)]	Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
339	[40 CFR 64.6(c)(4)]	Outlet concentration of Nitrogen oxides recordkeeping by electronic or hard copy at the approved frequency. [40 CFR 64.6(c)(4)]
340	[40 CFR 64.6(d)]	Schedule for installation, testing or final verification of operational status of the data acquisition and measurement system. [40 CFR 64.6(d)]
341	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]

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AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
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RLP 0011 240-09-B - Line 2 SCR Vent

342	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
343	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
344	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
345	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
346	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
347	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
348	[40 CFR 64.9(b)(1)]	Monitoring data recordkeeping by electronic or hard copy once every 15 minutes. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
349	[LAC 33:III.1101.B]	Opacity <= 20 percent, except during equipment changes, which may have an opacity in excess of 20 percent for not more than one six-minute period in any 60 consecutive minutes (Complies by using sweet natural gas as fuel) Which Months: All Year Statistical Basis: None specified
350	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
351	[LAC 33:III.1313.C]	Total suspended particulate <= 0.6 lb/MMBTU of heat input (Complies by using sweet natural gas as fuel). Which Months: All Year Statistical Basis: None specified
352	[LAC 33:III.501.C.6]	Nitric acid >= 50 % removal efficiency.
353	[LAC 33:III.501.C.6]	Chlorine >= 95 % removal efficiency.
354	[LAC 33:III.501.C.6]	Ammonia >= 80 % removal efficiency.

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AI ID: 17846 - UOP LLC - Shreveport Plant
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RLP 0011 240-09-B - Line 2 SCR Vent

355	[LAC 33:III.501.C.6]	Nitrogen oxides >= 80 % removal efficiency due to catalytic reduction.
356	[LAC 33:III.501.C.6]	Hydrochloric acid >= 95 % removal efficiency.
357	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 95 % removal efficiency which includes Nickel (and compounds), Cobalt compounds, Copper (and compounds) and Manganese (and compounds).
358	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
359	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be the gas absorption column scrubber which controls emissions of nickel oxide (Class I TAP) 95% efficiency. Stack testing data reported to DEQ December 2003.

RLP 0019 600-01 - Aluminum Digester Vent

360	[LAC 33:III.501.C.6]	Sodium Hydroxide >= 1.0 % by weight. Which Months: All Year Statistical Basis: Single grab
361	[LAC 33:III.501.C.6]	Pressure drop >= 0.001 and <= 2.5 inches w.c. (water column).
362	[LAC 33:III.501.C.6]	Flow rate >= 5 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
363	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media NaOH.
364	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
365	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
366	[LAC 33:III.507.H.1.a]	Weight % Sodium Hydroxide monitored by grab sampling once every four hours. Which Months: All Year Statistical Basis: Single grab
367	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
368	[LAC 33:III.507.H.1.a]	Sodium Hydroxide recordkeeping by electronic or hard copy once every four hours. Keep records of NaOH concentration on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
369	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
370	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average

RLP 0020 620-01 - Drying/Calcining Dust Collection Stack

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
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Permit Number: 0500-00020-V5
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RLP 0020 620-01 - Drying/Calcining Dust Collection Stack

371	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
372	[40 CFR 64.4(e)]	Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
373	[40 CFR 64.6(c)(1)]	Visible emissions monitored by technically sound method daily during operation. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
374	[40 CFR 64.6(c)(2)]	An excursion or exceedance is defined as visible emissions. An excursion is also any missed daily observation that is not due to a planned or demand shutdown. [40 CFR 64.6(c)(2)]
375	[40 CFR 64.6(c)(2)]	Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
376	[40 CFR 64.6(c)(4)]	Visible emissions recordkeeping by electronic or hard copy daily when in operation. [40 CFR 64.6(c)(4)]
377	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
378	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
379	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the dust collection unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
380	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
381	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable [40 CFR 64.9(a)]
382	[40 CFR 64.9(b)(1)]	Monitoring data recordkeeping by electronic or hard copy daily when in operation. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]

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RLP 0020 620-01 - Drying/Calcining Dust Collection Stack

383	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
384	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
385	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
386	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 99.5 % removal efficiency. Which Months: All Year Statistical Basis: None specified

RLP 0021 620-02 - Main Plant Stack

387	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
388	[LAC 33:III.501.C.6]	Flow rate >= 350 gallons/min. Which Months: All Year Statistical Basis: Four-hour average
389	[LAC 33:III.501.C.6]	Hydrochloric acid >= 0.03 % by weight. Which Months: All Year Statistical Basis: None specified
390	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 90 % removal efficiency by spray tower and 96% removal efficiency by cyclone.
391	[LAC 33:III.501.C.6]	Dimethylamine (DMA) >= 97 % removal efficiency. Which Months: All Year Statistical Basis: None specified
392	[LAC 33:III.501.C.6]	VOC, Total >= 50 % removal efficiency.
393	[LAC 33:III.501.C.6]	Dimethyl formamide >= 50 % removal efficiency.
394	[LAC 33:III.501.C.6]	Aluminum Oxide >= 99 % removal efficiency by spray tower and 96% removal efficiency by cyclone.
395	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media HCl.
396	[LAC 33:III.501.C.6]	Pressure drop >= 9 and <= 16 inches w.c. (water column).
397	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every four hours. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
398	[LAC 33:III.507.H.1.a]	Cyclone: Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of inspections and operating controls, specified by the manufacturer, on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.

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399	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
400	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every four hours. Keep records of flow rate on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
401	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every four hours. Which Months: All Year Statistical Basis: Four-hour average
402	[LAC 33:III.507.H.1.a]	Hydrochloric acid recordkeeping by electronic or hard copy once every four hours. Keep records of HCl concentration on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
403	[LAC 33:III.507.H.1.a]	Cyclone: Equipment/operational data monitored by visual, audible, and/or olfactory at no required frequency or whenever visual checks indicate maintenance may be necessary. Perform maintenance as necessary. Which Months: All Year Statistical Basis: None specified
404	[LAC 33:III.507.H.1.a]	Weight % Hydrochloric acid monitored by grab sampling once every four hours. Which Months: All Year Statistical Basis: Single grab
405	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every four hours. Which Months: All Year Statistical Basis: Four-hour average
406	[LAC 33:III.5107.A.2]	Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.
407	[LAC 33:III.5109.A.1]	Control emissions of toxic air pollutants to a degree that constitutes Maximum Achievable Control Technology (MACT) as approved by DEQ. MACT is determined to be the scrubberwhich has a 99% removal efficiency for ammonia and 97% for trimethylamine. Low concentrations of formaldehyde enter the scrubber, but is not effectively removed. Installation of control devices to reduce formaldehyde emissions was determined to be cost prohibitive. Stack testing data reported to DEQ December 1992 and April 1993.
408	[LAC 33:III.5109.A]	Trimethylamine (TMA) >= 97 % removal efficiency.

RLP 0022 630-01 - Oxidizer Caustic Scrubber Stack

409	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]
410	[40 CFR 64.4(e)]	Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
411	[40 CFR 64.6(c)(1)]	pH monitored by technically sound method once every 15 minutes [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
412	[40 CFR 64.6(c)(2)]	Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]

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RLP 0022 630-01 - Oxidizer Caustic Scrubber Stack

413	[40 CFR 64.6(c)(4)]	pH recordkeeping by electronic or hard copy once every 15 minutes. [40 CFR 64.6(c)(4)]
414	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
415	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
416	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
417	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
418	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]
419	[40 CFR 64.9(b)(1)]	Monitoring data recordkeeping by electronic or hard copy once every 15 minutes. Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
420	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
421	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
422	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and less than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
423	[LAC 33:III.501.C.6]	Operating plan: Scrubbing Media NaOH.
424	[LAC 33:III.501.C.6]	Nitric acid >= 50 % removal efficiency.
425	[LAC 33:III.501.C.6]	Chlorine >= 95 % removal efficiency.
426	[LAC 33:III.501.C.6]	pH >= 9.0 s.u. Which Months: All Year Statistical Basis: None specified

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427	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 50 % removal efficiency.
428	[LAC 33:III.501.C.6]	Hydrochloric acid >= 98 % removal efficiency.
429	[LAC 33:III.501.C.6]	Pressure drop >= 0.8 and <= 5.8 inches w.c. (water column)
430	[LAC 33:III.501.C.6]	Flow rate >= 200 gallons/min. Which Months: All Year Statistical Basis: Hourly average
431	[LAC 33:III.507.H.1.a]	Flow rate monitored by flow rate monitoring device once every 15 minutes. Which Months: All Year Statistical Basis: Hourly average
432	[LAC 33:III.507.H.1.a]	Pressure drop recordkeeping by electronic or hard copy once every 15 minutes. Keep records of pressure drop on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
433	[LAC 33:III.507.H.1.a]	Submit report: Due within 60 days after performance/emissions test. Submit emissions test results to the Office of Environmental Assessment. The test results summary shall include any necessary conversion into the units of any applicable Standard. (lbs/MMBtu, gr/dscf, lbs SO2 / ton 100% H2SO4, Etc.) Plant and in house laboratory data to support production values shall be included. (Example: how many tons of 100% equivalent H2SO4 was being produced) Units tested at less than 95% of permitted maximum capacity shall provide documentation to support compliance at 100% of the permitted maximum capacity. .
434	[LAC 33:III.507.H.1.a]	Flow rate recordkeeping by electronic or hard copy once every 15 minutes.
435	[LAC 33:III.507.H.1.a]	Pressure drop monitored by pressure drop instrument once every 15 minutes. Which Months: All Year Statistical Basis: Hourly average
436	[LAC 33:III.507.H.1.a]	Submit notification: Due at least 30 days prior to any LDEQ required performance/emissions test to the Office of Environmental Assessment, to provide the opportunity to conduct a pretest meeting and observe the emission testing. .
437	[LAC 33:III.507.H.1.a]	Submit report: Due annually, by the 31st of March for the preceding calendar year. List the hours that the scrubber operated out of the ranges specified. Submit report to the Office of Environmental Compliance, Enforcement Division. Incorporate into 40 CFR Part 70 General Conditions K and R.
438	[LAC 33:III.507.H.1.a]	Conduct a performance/emissions test: Due within 180 days after the issuance of a permit renewal, or within 60 days after achieving normal production rate or end of the shakedown period, whichever is earliest. The stack test's purpose is to demonstrate compliance with the stated scrubber 's 98% hydrochloric acid reduction efficiency. Also to establish the ranges of surrogate monitoring parameters and therefore must be conducted at greater than 80% of maximum permitted capacity. Test methods and procedures shall be in accordance with New Source Performance Standards, 40 CFR 60, Appendix A. Use alternate stack test methods only with the prior approval of the Office of Environmental Assessment. .
439	[LAC 33:III.5107.A.2]	Emits Class III TAP only. Chapter 51 MACT is not required. Include emissions of all toxic air pollutants listed in LAC 33:III.5112, Table 51.1 or 51.3 in the Annual Emissions Report unless exempted under LAC 33:III.5105.B.

RLP 0026 630-05 - Finished Catalyst Dust Collection Vent

440	[40 CFR 64.3(b)(3)]	Specific QA/QC Procedures: Calibrate, operate, and maintain instrumentation using procedures that take into account manufacturer's specifications. [40 CFR 64.3(b)(3)]

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RLP 0026 630-05 - Finished Catalyst Dust Collection Vent

441	[40 CFR 64.4(e)]	Comply with the submitted implementation plan and schedule for installing, testing and performing any other appropriate activities prior to use of the monitoring, if any of the approved monitoring in this permit requires installation, testing, or other necessary activities prior to use of the monitoring for purposes of 40 CFR 64. Implement monitoring as expeditiously as practicable after approval of the monitoring pursuant to 40 CFR 64.6, but in no case shall the period for completing installation and beginning operation of the monitoring exceed 180 days after approval of the permit. [40 CFR 64.4(e)]
442	[40 CFR 64.6(c)(1)]	Visible emissions monitored by technically sound method daily during operation. [40 CFR 64.6(c)(1)] Which Months: All Year Statistical Basis: None specified
443	[40 CFR 64.6(c)(2)]	Submit Notification: Submit to DEQ within 5 working days upon the establishment or reestablishment of any exceedance or excursion level, for purposes of responding to and reporting exceedances or excursions under 40 CFR 64.7 and 64.8. [40 CFR 64.6(c)(2)]
444	[40 CFR 64.6(c)(2)]	An excursion or exceedance is defined as visible emissions. [40 CFR 64.6(c)(2)]
445	[40 CFR 64.6(c)(4)]	Visible emissions recordkeeping by electronic or hard copy daily when in operation. [40 CFR 64.6(c)(4)]
446	[40 CFR 64.7(a)]	Conduct the monitoring required under 40 CFR 64 upon issuance of a part 70 or 71 permit that includes such monitoring, or by such later date specified in the permit pursuant to 40 CFR 64.6(d). [40 CFR 64.7(a)]
447	[40 CFR 64.7(b)]	Maintain the monitoring required under 40 CFR 64 at all times, including but not limited to maintaining necessary parts for routine repairs of the monitoring equipment. [40 CFR 64.7(b)]
448	[40 CFR 64.7(c)]	Conduct all monitoring required under 40 CFR 64 in continuous operation (or collect data at all required intervals) at all times that the dust collection unit is operating, except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments). Do not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities for purposes of 40 CFR 64, including data averages and calculations, or for fulfilling a minimum data availability requirement, if applicable. Use all the data collected during all other periods in assessing the operation of the control device and associated control system. [40 CFR 64.7(c)]
449	[40 CFR 64.7(d)(1)]	Restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable upon detecting an excursion or exceedance, in accordance with good air pollution control practices for minimizing emissions. Minimize the period of any startup, shutdown or malfunction, and take any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions). [40 CFR 64.7(d)(1)]
450	[40 CFR 64.7(e)]	Submit written notification: Due to the Office of Environmental Compliance within one hour upon identifying a failure to achieve compliance with the no visible emissions, after approval of monitoring under 40 CFR 64, the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions. If necessary, submit a proposed modification to the part 70 or 71 permit to address the necessary monitoring changes. [40 CFR 64.7(e)]
451	[40 CFR 64.9(a)]	Submit report: Due on and after the date specified in 40 CFR 64.7(a) by which the owner or operator must use monitoring that meets the requirements of 40 CFR 64. Submit monitoring reports to the DEQ in accordance with 40 CFR 70.6(a)(3)(iii). Include in a report for monitoring under 40 CFR 64, at a minimum, the information required under 40 CFR 70.6(a)(3)(iii) and the information specified in 40 CFR 64.9(a)(2)(i) through (a)(2)(iii), as applicable. [40 CFR 64.9(a)]

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452	[40 CFR 64.9(b)(1)]	Equipment/operational data recordkeeping by electronic or hard copy at the approved frequency. Maintain records of monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to 40 CFR 64.8 and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under 40 CFR 64 (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions). Maintain these records for a period of at least five years. [40 CFR 64.9(b)(1)]
453	[40 CFR 64.9(b)(1)]	Comply with the recordkeeping requirements specified in 40 CFR 70.6(a)(3)(ii). [40 CFR 64.9(b)(1)]
454	[LAC 33:III.1311.B]	Total suspended particulate: The rate of emission for total suspended particulate shall be the total of all emission points from the source and le than the emission rate shown in Table 3 for the process weight rate allocated to such source. The department has reviewed the process weight rates and determined that the actual emissions of particulate matter are less than the limits established in Table 3 of Chapter 13.
455	[LAC 33:III.501.C.6]	Aluminum Oxide >= 99.5 % removal efficiency. Which Months: Phases: Statistical Basis: None specified
456	[LAC 33:III.501.C.6]	Particulate matter (10 microns or less) >= 99.5 % removal efficiency. Which Months: All Year Statistical Basis: None specified
457	[LAC 33:III.507.H.1.a]	Filter elements (bags): Equipment/operational data recordkeeping by electronic or hard copy upon each occurrence of inspection. Keep records of maintenance inspections on site and available for inspection by the Office of Environmental Compliance, Surveillance Division.
458	[LAC 33:III.507.H.1.a]	Filter elements (bags): Equipment/operational data monitored by technically sound method once every six months or whenever visual checks indicate maintenance may be necessary. Change elements as necessary. Which Months: All Year Statistical Basis: None specified

UNF 0001 UOP - Shreveport Plant

459	[40 CFR 60.]	All affected facilities shall comply with all applicable provisions in 40 CFR 60 Subpart A.
460	[40 CFR 61.145(b)(1)]	Provide DEQ with written notice of intention to demolish or renovate prior to performing activities to which 40 CFR 61 Subpart M applies. Delivery of the notice by U.S. Postal Service, commercial delivery service, or hand delivery is acceptable. Subpart M. [40 CFR 61.145(b)(1)]
461	[40 CFR 61.148]	Do not install or reinstall on a facility component any insulating materials that contain commercial asbestos if the materials are either molded a friable or wet-applied and friable after drying. Subpart M.
462	[40 CFR 61.]	All affected facilities shall comply with all applicable provisions in 40 CFR 61 Subpart A.
463	[40 CFR 82 Subpart F]	Comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for Motor Vehicle Air Conditioners (MVACs) in Subpart B.
464	[LAC 33:III.1103]	Emissions of smoke which pass onto or across a public road and create a traffic hazard by impairment of visibility as defined in LAC 33:III.111 or intensify an existing traffic hazard condition are prohibited.
465	[LAC 33:III.1303.B]	Emissions of particulate matter which pass onto or across a public road and create a traffic hazard by impairment of visibility or intensify an existing traffic hazard condition are prohibited.
466	[LAC 33:III.2113 A]	Maintain best practical housekeeping and maintenance practices at the highest possible standards to reduce the quantity of organic compounds emissions. Good housekeeping shall include, but not be limited to, the practices listed in LAC 33.III.2113 A.1-5.

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467	[LAC 33:III.219]	Failure to pay the prescribed application fee or annual fee as provided herein, within 90 days after the due date, will constitute a violation of these regulations and shall subject the person to applicable enforcement actions under the Louisiana Environmental Quality Act including, but not limited to, revocation or suspension of the applicable permit, license, registration, or variance.
468	[LAC 33:III.2901.D]	Discharges of odorous substances at or beyond property lines which cause a perceived odor intensity of six or greater on the specified eight point butanol scale as determined by Method 41 of LAC 33:III.2901.G are prohibited.
469	[LAC 33:III.2901.F]	If requested to monitor for odor intensity, take and transport samples in a manner which minimizes alteration of the samples either by contamination or loss of material. Evaluate all samples as soon after collection as possible in accordance with the procedures set forth in LAC 33:III.2901.G.
470	[LAC 33:III.507.H.1.a]	Hydrofluoric acid recordkeeping by electronic or hard copy upon each occurrence of a catalyst campaign. Keep records of the catalyst production and HF emissions each campaign, as well as the total catalyst production and HF emissions for the last twelve months. Make records available for inspection by DEQ personnel.
471	[LAC 33:III.507.H.1.a]	Nickel (and compounds) monitored by calculations upon each occurrence of a catalyst production campaign. Nickel oxide emissions shall be calculated based on each unique catalyst production campaign (established by stack test or other method acceptable to the Office of Environmental Assessment, Environmental Technology Division). Catalyst production rate and hours of operation shall be monitored to limit nickel oxide emissions. Which Months: All Year Statistical Basis: Annual maximum
472	[LAC 33:III.507.H.1.a]	Nickel (and compounds) recordkeeping by electronic or hard copy upon each occurrence of a catalyst campaign. Keep records of the catalyst production and Nickel oxide emissions each campaign, as well as the total catalyst production and Nickel oxide emissions for the last twelve months. Make records available for inspection by DEQ personnel.
473	[LAC 33:III.507.H.1.a]	Hydrofluoric acid monitored by calculations upon each occurrence of a catalyst production campaign. HF shall be calculated to the catalyst production (established by stack test or other method acceptable to the Office of Environmental Assessment, Environmental Technology Division) and limit catalyst production rate and hours of operation to limit HF emissions. Which Months: All Year Statistical Basis: Annual maximum
474	[LAC 33:III.5105.A.1]	Do not construct or modify any stationary source subject to any standard set forth in LAC 33:III.Chapter 51.Subchapter A without first obtaining written authorization from DEQ in accordance with LAC 33:III.Chapter 51.Subchapter A, after the effective date of the standard.
475	[LAC 33:III.5105.A.2]	Do not cause a violation of any ambient air standard listed in LAC 33:III.Table 51.2, unless operating in accordance with LAC 33:III.5109.B.
476	[LAC 33:III.5105.A.3]	Do not build, erect, install, or use any article, machine, equipment, process, or method, the use of which conceals an emission that would otherwise constitute a violation of an applicable standard.
477	[LAC 33:III.5105.A.4]	Do not fail to keep records, notify, report or revise reports as required under LAC 33:III.Chapter 51.Subchapter A.
478	[LAC 33.III.5107.A.2]	Include a certification statement with the annual emission report and revisions to any emission report that attests that the information contained in the emission report is true, accurate, and complete, and that is signed by a responsible official, as defined in LAC 33:III.502. Include the full name of the responsible official, title, signature, date of signature and phone number of the responsible official.
479	[LAC 33:III.5107.A]	Submit Annual Emissions Report: Due annually, by the 31st of March unless otherwise directed by DEQ, to the Office of Environmental Assessment in a format specified by DEQ. Identify the quantity of emissions in the previous calendar year for any toxic air pollutant listed in Table 51.1 or Table 51.3.

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480	[LAC 33:III.5107.B.1]	Submit notification: Due to the Department of Public Safety 24-hour Louisiana Emergency Hazardous Materials Hotline at (225) 925-6595 immediately, but in no case later than 1 hour, after any discharge of a toxic air pollutant into the atmosphere that results or threatens to result in an emergency condition (a condition which could reasonably be expected to endanger the health and safety of the public, cause significant adverse impact to the land, water or air environment, or cause severe damage to property).
481	[LAC 33:III.5107.B.2]	Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, no later than 24 hours after the beginning of any unauthorized discharge into the atmosphere of a toxic air pollutant as a result of bypassing an emission control device, when the emission control bypass was not the result of an upset, and the quantity of the unauthorized bypass is greater than or equal to the lower of the Minimum Emission Rate (MER) in LAC 33:III.5112, Table 51.1, or a reportable quantity (RQ) in LAC 33:I.3931, or the quantity of the unauthorized bypass is greater than one pound and there is no MER or RQ for the substance in question. Submit notification in the manner provided in LAC 33:I.3923.
482	[LAC 33:III.5107.B.3]	Submit notification: Due to SPOC, except as provided in LAC 33:III.5107.B.6, immediately, but in no case later than 24 hours after any unauthorized discharge of a toxic air pollutant into the atmosphere that does not cause an emergency condition, the rate or quantity of which is in excess of that allowed by permit, compliance schedule, or variance, or for upset events that exceed the reportable quantity in LAC 33:I.3931. Submit notification in the manner provided in LAC 33:I.3923.
483	[LAC 33:III.5107.B.4]	Submit written report: Due by certified mail to SPOC within seven calendar days of learning of any such discharge or equipment bypass as referred to in LAC 33:III.5107.B.1 through B.3. Include the information specified in LAC 33:III.5107.B.4.a.i through B.4.a.viii
484	[LAC 33:III.5107.B.5]	Report all discharges to the atmosphere of a toxic air pollutant from a safety relief device, a line or vessel rupture, a sudden equipment failure, or a bypass of an emission control device, regardless of quantity, IF THEY CAN BE MEASURED AND CAN BE RELIABLY QUANTIFIED USING GOOD ENGINEERING PRACTICES, to DEQ along with the annual emissions report and where otherwise specified. Include the identity of the source, the date and time of the discharge, and the approximate total loss during the discharge.
485	[LAC 33:III.5109.C]	Develop a standard operating procedure (SOP) within 120 days after achieving or demonstrating compliance with the standards specified in LAC 33:III.Chapter 51. Detail in the SOP all operating procedures or parameters established to ensure that compliance with the applicable standards is maintained and address operating procedures for any monitoring system in place, specifying procedures to ensure compliance with LAC 33:III.5113.C.5. Make a written copy of the SOP available on site or at an alternate approved location for inspection by DEQ. Provide a copy of the SOP within 30 days upon request by DEQ.
486	[LAC 33:III.5113.A.1]	Submit notification in writing: Due to SPOC not more than 60 days nor less than 30 days prior to initial start-up. Submit the anticipated date of the initial start-up.
487	[LAC 33:III.5113.A.2]	Submit notification in writing: Due to SPOC within 10 working days after the actual date of initial start-up of the source. Submit the actual date of initial start-up of the source.
488	[LAC 33:III.5151.F.1.f]	An individual or company contracted to perform a demolition or renovation activity which disturbs RACM must be recognized by the Licensing Board for Contractors to perform asbestos abatement, and shall meet the requirements of LAC 33:III.5151 F.2 and F.3 for each demolition or renovation activity.
489	[LAC 33:III.535]	Comply with the Part 70 General Conditions as set forth in LAC 33:III.535 and the Louisiana General Conditions as set forth in LAC 33:III.537. [LAC 33:III.535, LAC 33:III.537]
490	[LAC 33:III.5611.A]	Submit standby plan for the reduction or elimination of emissions during an Air Pollution Alert, Air Pollution Warning, or Air Pollution Emergency: Due within 30 days after requested by the administrative authority.

SPECIFIC REQUIREMENTS

AI ID: 17846 - UOP LLC - Shreveport Plant
Activity Number: PER20080008
Permit Number: 0500-00020-V5
Air - Title V Regular Permit Renewal

UNF 0001 UOP - Shreveport Plant

491	[LAC 33:III.5611.B]	During an Air Pollution Alert, Air Pollution Warning or Air Pollution Emergency, make the standby plan available on the premises to any person authorized by the department to enforce these regulations.
492	[LAC 33:III.919.D]	Submit Emission Inventory (EI)/Annual Emissions Statement: Due annually, by the 31st of March for the period January 1 to December 31 of the previous year unless otherwise directed. Submit emission inventory data in the format specified by the Office of Environmental Assessment. Include all data applicable to the emissions source(s), as specified in LAC 33:III.919.A-D.
493	[LAC 33:III.927]	Report the unauthorized discharge of any air pollutant into the atmosphere in accordance with LAC 33:I.Chapter 39, Notification Regulations and Procedures for Unauthorized Discharges. Submit written reports to the department pursuant to LAC 33:I.3925. Submit timely and appropriate follow-up reports detailing methods and procedures to be used to prevent similar atmospheric releases.