

Bryan W. Shaw, Ph.D., *Chairman*
Carlos Rubinfeldstein, *Commissioner*
Toby Baker, *Commissioner*
Zak Covar, *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

February 26, 2013

MR WALTER R STAMM
PLANT MANAGER
HUNTSMAN PETROCHEMICAL LLC
5451 JEFFERSON CHEMICAL RD
CONROE TX 77301-6837

Permit by Rule Registration Number:	107107
Location/City/County:	5451 Jefferson Chemical Road, Conroe, Montgomery County
Project Description/Unit:	Bleeder Addition Project
Regulated Entity Number:	RN100219740
Customer Reference Number:	CN603603093
New or Existing Site:	Existing
Affected Permit (if applicable):	NSR Permit No. 4788
Renewal Date (if applicable):	None

Huntsman Petrochemical LLC has certified the emissions associated with the Bleeder Addition Project at the Huntsman Petrochemical Conroe Plant under Title 30 Texas Administrative Code §§ 106.261 and 106.262. This PBR shall be referenced or incorporated into the next amendment or renewal of NSR Permit No. 4788.

For rule information see www.tceq.texas.gov/permitting/air/nav/numerical_index.html.

No planned MSS emissions have been represented or reviewed for this registration and none will be authorized. The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements.

This certification is taken under the authority delegated by the Executive Director of the TCEQ. If you have questions, please contact Mr. Raymond D. Lay at (361) 825-3426.

Sincerely,

A handwritten signature in black ink, appearing to read "Anne M. Inman".

Anne M. Inman, P.E., Manager
Rule Registrations Section
Air Permits Division

RECEIVED

JUN 03 2013

**TCEQ
CENTRAL FILE ROOM**

cc: Mr. Ryan Mayces, Consultant, Waid Environmental, League City
Air Section Manager, Region 12 - Houston

Project Number: 185838

Emission Sources - Certified Emission Rates

Registration Number 107107

This table lists the certified emission rates and all sources of air contaminants on the applicant's property covered by this registration. The emission rates shown are those derived from information submitted as part of the registration for PBR.

ESTIMATED EMISSIONS												
EPN / Emission Source	VOC		NOx		CO		PM₁₀		PM_{2.5}		SO₂	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
PLNTFUG / Plant Fugitives	0.01	0.04										
TOTAL EMISSIONS (TPY):		0.04										
MAXIMUM OPERATING SCHEDULE:	Hours/Day	24	Days/Week	7	Weeks/Year	52	Hours/Year	8,760				

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	107107	Company Name:	Huntsman Petrochemical LLC	APD Reviewer:	Mr. Raymond D. Lay
Project No.:	185838	Unit Name:	Bleeder Addition Project	PBR No(s).:	106.261, 106.262

GENERAL INFORMATION					
Regulated Entity No.:	RN100219740	Project Type:	Permit by Rule Application		
Customer Reference No.:	CN603603093	Date Received by TCEQ:	November 29, 2012		
Account No.:	MQ-0012-Q	Date Received by Reviewer:	January 15, 2013		
City/County:	Conroe, Montgomery County	Physical Location:	5451 Jefferson Chemical Road		

CONTACT INFORMATION					
Responsible Official/ Primary Contact Name and Title:	Mr. Walter R. Stamm Plant Manager	Phone No.:	(936) 760-6226	Email:	WALTER_STAMM@HUNTSMAN.COM
Technical Contact/ Consultant Name and Title:	Mr. Scott A. Wagaman Team Lead Environmental Services	Phone No.:	(936) 760-6265	Email:	SCOTT_A_WAGAMAN@HUNTSMAN.COM
Fax No.:		Fax No.:	(936) 760-6280		

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	Non-confidential information was submitted.
Are there affected NSR or Title V permits for the project?	X		NSR Permit No. 4788 associated with the Huntsman Petrochemical LLC (Huntsman) Conroe Plant. PBR 107107 shall be referenced or incorporated into the next amendment or renewal of NSR Permit No. 4788.
Is each PBR > 25/250 tpy?		X	See the Estimated Emissions table below.
Are PBR sitewide emissions > 25/250 tpy?		N/A	Conroe Plant has had public notice and public comment.
Are there permit limits on using PBRs at the site?		X	There are no permits under the same commission account number that contain a condition or conditions precluding the use of a PBR under this chapter.
Is PSD or Nonattainment netting required?		X	The Conroe Plant is located in Montgomery County, which is classified as nonattainment county. The project has not triggered a nonattainment review.
Do NSPS, NESHAP, or MACT standards apply to this registration?		X	
Does NOx Cap and Trade apply to this registration?		X	The Conroe Plant is located in Houston/Galveston area.
Is the facility in compliance with all other applicable rules and regulations?	X		Huntsman has demonstrated that the Bleeder Addition Project is in compliance under Title 30 Texas Administrative Code (TAC) §§ 106.261 and 106.262.

DESCRIBE OVERALL PROCESS AT THE SITE
Huntsman operates the Conroe Plant located in Montgomery County.

DESCRIBE PROJECT AND INVOLVED PROCESS
Huntsman Petrochemical LLC has certified the emissions associated with the Bleeder Addition Project at the Huntsman Petrochemical Conroe Plant under Title 30 Texas Administrative Code §§ 106.261 and 106.262.
The submittal authorizes the addition of 77-valves associated with the bleeder addition project. Connectors will be welded at each valve. These bleeders are being added to enhance safety.
PBR 107107 shall be referenced or incorporated into the next amendment or renewal of NSR Permit No. 4788.
No planned MSS emissions have been represented or reviewed for this registration and none will be authorized.

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES

Fugitive emissions are calculated by multiplying a source count by an emission factor. The emission factors used for this facility are SOCM1 without ethylene from TCEQ guidance dated October 2000. Control efficiencies are based on a 28VHP Leak Detection & Repair Program combined with 500-ppm quarterly flange monitoring. Connectors are controlled at 100% because they are welded.

§106.261 Facilities (Emission Limitations)

- (a)(1) The facilities are located 850-feet from the nearest off-site receptor.
- (2) The emissions of each individual chemical listed in this registration under this paragraph will not exceed 6-lb/hr and 10-tpy.
- (3) Total emissions of each individual chemical listed in this registration claimed under this paragraph will not exceed 1-lb/hr (See the list of chemicals in the application).
- (4) Huntsman represents there are no changes to or additions of any existing air pollution abatement equipment.
- (5) Huntsman represents that visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source will not be in amounts greater than 5.0% opacity in any six-minute period.
- (6) NA, emissions are increasing by less than 5-tpy.
- (7) Emissions are increasing by less than 5-tpy. The Form PI-7-CERT was submitted.
- (b)(1) This section is not being used to authorize the construction of a facility authorized in another section or for which a standard permit is in effect.
- (b)(2) This section is not being used to authorize the any change to a facility authorized in another section or for which a standard permit is in effect.

§106.262 Facilities (Emission and Distance Limitations)

- (a)(1) The facilities are located 850-feet from the nearest off-site receptor.

TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	107107	Company Name:	Huntsman Petrochemical LLC	APD Reviewer:	Mr. Raymond D. Lay
Project No.:	185838	Unit Name:	Bleeder Addition Project	PBR No(s).:	106.261, 106.262

- (2) Total emissions of the worst case contaminants (Formcel, Formaldehyde 50% Solution, and Formalin) claimed under this paragraph will not exceed 5-tpy or the value of E as determined by the equation $E = L/K$ (See PBR Emission Limits below).
- (3) A Form PI-7-CERT was submitted.
- (4) NA, none of the listed compounds is handled as part of the project.
- (5) There are no changes to or additions of any existing air pollution abatement equipment.
- (6) Huntsman represents that visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source will not be in amounts greater than 5.0% opacity in any six-minute period.
- (b) This section is not being used to authorize the construction of or any change to a facility authorized in another section, but not meeting the requirements of that section, or for which a standard permit is in effect.
- (c) This section is not being used to qualify the use of other chemicals at a facility that has been authorized under another section of this chapter or under a standard permit.

VOC FUGITIVE EMISSIONS SUMMARY SHEET

Facility Information

FIN
EPN
Project
Hours of Operation

PLNTFUG
PLNTFUG
8760

Total Emissions Estimates

Total Emissions Estimates					
Equipment Type	Component Count	Emission Factor ¹	Control Efficiency ^{2,3}	Emissions Rate (lb/hr)	Emissions Rate (tons/yr)
Valves - Gas/Vapor	77	0.0089	0.97	0	0
Valves - Light Liquid		0.0035	0.97	0.00809	0.03541
Valves - Heavy Liquid		0.0007	0.30	0	0
				0	0
Pumps - Light Liquid		0.0386	0.85	0	0
Pumps - Light Liquid - sealed		0.0386	1.00	0	0
Pumps - Heavy Liquid		0.0151	0.85	0	0
				0	0
Connectors - Gas/Vapor	77	0.0029	1.00	0	0
Connectors - Light Liquid		0.0005	1.00	0	0
Connectors - Heavy		0.00007	1.00	0	0
Total Emissions				0.00809	0.03540

NOTES:

- (1) SOCM w/o ethylene emission factors
- (2) Control factors are based on a 28VHP Leak Detection and Repair Program with 500 ppm quarterly flange monitoring.
- (3) All connectors are welded and therefore sealed

PBR Emission Limits: D = 850; K = 42.5

Chemical	PBR Claimed	L, mg/m ³	Emission Limit (E = L/K), lb/hr	Emission Limit tpy	Actual Emissions lb/hr	Actual Emissions tpy
Representative ¹	106.261(a)(2)	---	6.00	10.00	0.00809	0.0354
Representative ²	106.261(a)(3)	---	1.00	4.38	0.00809	0.0354
Formcel ³	106.262(a)(2)	0.37	0.008706	5.00	0.00809	0.0354
Formaldehyde 50% Solution ³	106.262(a)(2)	0.37	0.008706	5.00	0.00809	0.0354
Formalin ³	106.262(a)(2)	0.37	0.008706	5.00	0.00809	0.0354

1. Represents worst-case chemical listed on the approved chemicals list authorized under 106.261(a)(2).
2. Represents worst-case chemical listed on the approved chemicals list authorized under 106.261(a)(3).
3. Represents worst-case chemical listed on the approved chemicals list authorized under 106.262(a)(2).

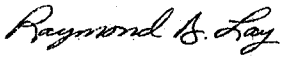
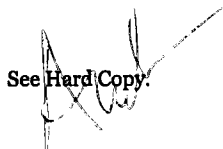
TECHNICAL REVIEW: AIR PERMIT BY RULE

Permit No.:	107107	Company Name:	Huntsman Petrochemical LLC	APD Reviewer:	Mr. Raymond D. Lay
Project No.:	185838	Unit Name:	Bleeder Addition Project	PBR No(s).:	106.261, 106.262

COMMUNICATION LOG			
Date	Time	Name/Company	Subject of Communication
02/26/13	1111	Mr. Walter R. Stamm, Plant Manager	Courtesy call stating that this reviewer has the PBR application and in the initial review of the application the required information to complete the final review is included.

ESTIMATED EMISSIONS												
EPN / Emission Source	VOC		NOx		CO		PM ₁₀		PM _{2.5}		SO ₂	
	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
PLNTFUG / Plant Fugitives	0.00809	0.0354										
TOTAL EMISSIONS (TPY):		0.0354										
MAXIMUM OPERATING SCHEDULE:		Hours/Day	24	Days/Week	7	Weeks/Year	52	Hours/Year	8,760			

SITE REVIEW / DISTANCE LIMIT	Yes	No	Description/Outcome	Date	Reviewed by
Site Review Required?		X			
PBR Distance Limits Met?	X		500-feet to the nearest property line and 850-feet to the nearest off-property structure.	February 26, 2013	Mr. Raymond D. Lay

	TECHNICAL REVIEWER	PEER REVIEWER	FINAL REVIEWER
SIGNATURE:			 See Hard Copy.
PRINTED NAME:	Mr. Raymond D. Lay		Ms. Anne M. Inman, P.E., Manager
DATE:	February 26, 2013		February 26, 2013

BASIS OF PROJECT POINTS	POINTS
Base Points: 106.261	1.50
Project Complexity Description and Points: 106.262	0.50
Technical Reviewer Project Points Assessment:	2.00
Final Reviewer Project Points Confirmation:	

02/26/2013 -----NSR IMS - PROJECT RECORD -----

PROJECT#: 185838 PERMIT#: 107107 STATUS: PENDING
RECEIVED: 11/29/2012 PROJTYPE: INITIAL AUTHTYPE: PBR
RENEWAL:

DISP CODE: C
ISSUED DT: 2/26/13

PROJECT ADMIN NAME: BLEEDER ADDITION PROJECT
PROJECT TECH NAME: HUNTSMAN PETROCHEMICAL CONROE PLANT

2.6 Add

Assigned Team:RULE REG SECTION**STAFF ASSIGNED TO PROJECT:**

GLASPIE-FELIX , SHELIA	- REVIEWR1_2 -	AP INITIAL REVIEW
LAY , RAYMOND	- REVIEW ENG -	RR TEAM

CUSTOMER INFORMATION (OWNER/OPERATOR DATA)

ISSUED TO: HUNTSMAN PETROCHEMICAL LLC
COMPANY NAME: Huntsman Petrochemical LLC
CUSTOMER REFERENCE NUMBER: **CN603603093**

REGULATED ENTITY/SITE INFORMATION

REGULATED ENTITY NUMBER: **RN100219740** ACCOUNT: MQ0012Q
PERMIT NAME: HUNTSMAN PETROCHEMICAL CONROE PLANT

REGULATED ENTITY LOCATION: 5451 JEFFERSON CHEMICAL RD
REGION 12 - HOUSTON NEAR CITY: CONROE COUNTY: MONTGOMERY

CONTACT DATA

CONTACT NAME: MR WALTER R STAMM CONTACT ROLE: RESPONSIBLE OFFICIAL
JOB TITLE: PLANT MANAGER ORGANIZATION: HUNTSMAN PETROCHEMICAL LLC
MAILING ADDRESS: 5451 JEFFERSON CHEMICAL RD , CONROE, TX, 77301-6837
PHONE: (936) 760-6226 Ext: 0
FAX: (936) 760-6280 Ext: 0
EMAIL:WALTER_STAMM@HUNTSMAN.COM

CONTACT NAME: MR SCOTT A WAGAMAN CONTACT ROLE: TECHNICAL CONTACT
JOB TITLE: TEAM LEAD ENVIRONMENTAL SERVICES ORGANIZATION: HUNTSMAN PETROCHEMICAL LLC
MAILING ADDRESS: 5451 JEFFERSON CHEMICAL RD , CONROE, TX, 77301-6837
PHONE: (930) 760-6265 Ext: 0
FAX: (936) 760-6280 Ext: 0
EMAIL:SCOTT_A_WAGAMAN@HINTSMAN.COM

PROJECT NOTES:

11/30/2012 CR/SOS/DFC DONE 11/30/12 - NOT ON APWL

PERMIT NOTES:

02/26/2013 PBR 107107 SHALL BE REFERENCED OR INCORPORATED INTO THE NEXT AMENDMENT OR RENEWAL OF NSR PERMIT NO. 4788.

FEE:

Reference	Fee Receipt Number	Amount	Fee Receipt Date	Fee Payment Type
2500505904		450.00		CHECK

TRACKING ELEMENTS:

TE Name	Start Date	Complete Date
APIRT RECEIVED PROJECT (DATE)	11/29/2012	
APIRT TRANSFERRED PROJECT TO TECHNICAL STAFF (DATE)	11/30/2012	
CENTRAL REGISTRY UPDATED	11/30/2012	11/30/2012
PROJECT RECEIVED BY ENGINEER (DATE)	01/15/2013	
ENGINEER INITIAL REVIEW COMPLETED (DATE)	02/25/2013	
PEER / MANAGER REVIEW PERIOD	02/26/2013	02/26/2013

UNIT TYPES:Project Unit Type:

Industry Group	Industry Type	Source Type	Control/BACT Type	Request	Authorization
CHEMICAL	CHEMICAL PLANT				

PROJECT RULES:

Unit Desc	Rule Desc	Request Type	On Application	Approve
FACILITIES (EMISSION LIMITATIONS)	106.261 -	ADD	Y	APPROVE
FACILITIES (EMISSION AND DISTANCE LIMITATIONS)	106.262 -	ADD	Y	APPROVE

PERMIT RULES:

Unit Desc	Rule Desc	Start Date	End Date
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PROJECT ATTRIBUTES:

Attributes	Value
PROJECT POINT	

Amanda Berry

From: airog
Sent: Monday, December 03, 2012 7:22 AM
To: 'WALTER_STAMM@HUNTSMAN.COM'; 'SCOTT_A_WAGAMAN@HINTSMAN.COM'
Subject: TCEQ APD Info. Request for Huntsman Petrochemical LLC, Huntsman Petrochemical Conroe Plant, 107107

The TCEQ Air Permits Division Rule Registrations Section has received a registration under PBR 106.261 and 106.262.

In an effort to process your registration request more efficiently, please respond to the following:

1. The company will receive the response letter electronically and no hard copy will be sent unless the company otherwise states they would like a hardcopy response letter. All completed projects can be viewed at: <https://webmail.tceq.state.tx.us/gw/webpub>.
2. PBR 106.261 and 106.262 registrations do not require a response from the TCEQ but let us know if you are waiting for a registration before the project is implemented.
3. If you have any updates to the project listed above, please send them in now.

The following items are required before the registration can be considered administratively complete and will affect whether the technical evaluation can be completed.

Please respond to this AIROG email address. Also, if you need clarification regarding the questions above, please call (512) 239-1250 and request to speak to a reviewer in the Rule & Registration Section.

The TCEQ continually strives to provide quality customer service and we value your opinion. We encourage you to tell us about your experience and how you believe we can improve. We ask that you take a moment to complete our [customer survey](#) to assist us in serving you better in the future.

Thank you for helping to protect the environment in Texas,

The Rule Registrations Section

106.261 and 106.262 Initial Screening Sheet

Company: <u>Huntzman</u>	Permit No. <u>107107</u>	Project No. <u>185838</u>
☒ Initial ☐ Revision ☐ Renewal ☐ Response to Deficiency Previous reviewer: _____		Date Screened: <u>12/3</u> Initials: <u>OB</u>

Certified? ☒ Yes ☐ No☒ Signature matches RO or TC/DAR☒ Process/Project Description☒ Rule description (checklists or equivalent)☒ Emission Summary (Table 1a)VOC tpy: 0.04

NOx tpy: _____

CO tpy: _____

SO₂ tpy: _____H₂S tpy: _____☐ 106.261/106.262 speciation of all project emissions

Comments: _____

☒ Fugitives☐ Gas☐ Liquids☐ used TCEQ emission factors

Comments: _____

☐ Control Devices☐ Flare☐ Combustor☐ Thermal Oxidizer☐ VRU☐ Scrubber☐ Other☐ NSPS 60.18Alternate operating scenario included? ☐ Yes ☐ NoControl efficiency _____ % If over baseline efficiency, description/justification provided? ☐ Yes ☐ No

Comments: _____

☐ MSS☐ Industry Deadline Past☐ Industry deadline 2012☐ Industry deadline 2013☐ Description of activity, duration, and frequency☐ Emissions character/quantification

Comments: _____

☒ Permit affected? #: 4788☐ Upstream/Downstream effects addressed☐ Yes ☐ No

Project recommended to be transferred to technical reviewer?

☐ YES ☐ NO

E-mail sent: _____

Recommended reviewer: _____

Transfer date: _____

11/30/2012 -----NSR IMS - PROJECT RECORD-----

PROJECT#: 185838 PERMIT#: 107107 STATUS: PENDING DISP CODE: _____
RECEIVED: 11/29/2012 PROJTYPE: INITIAL AUTHTYPE: PBR ISSUED DT: _____
RENEWAL:
PROJECT ADMIN NAME: BLEEDER ADDITION PROJECT
PROJECT TECH NAME: HUNTSMAN PETROCHEMICAL CONROE PLANT

Assigned Team: RULE REG SECTION

STAFF ASSIGNED TO PROJECT:

GLASPIE-FELIX, SHELIA - REVIEWR1_2 - AP INITIAL REVIEW
TEAM LEADER, RR - REVIEW ENG - RULE REG SECTION

CUSTOMER INFORMATION (OWNER/OPERATOR DATA)

ISSUED TO: HUNTSMAN PETROCHEMICAL LLC
COMPANY NAME: Huntsman Petrochemical LLC
CUSTOMER REFERENCE NUMBER: CN603603093

REGULATED ENTITY/SITE INFORMATION

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PHONE: (936) 760-6226 Ext: 0
FAX: (936) 760-6280 Ext: 0
EMAIL: WALTER_STAMM@HUNTSMAN.COM

CONTACT NAME: MR SCOTT A WAGAMAN CONTACT ROLE: TECHNICAL CONTACT
JOB TITLE: TEAM LEAD ENVIRONMENTAL SERVICES ORGANIZATION: HUNTSMAN PETROCHEMICAL LLC
MAILING ADDRESS: 5451 JEFFERSON CHEMICAL RD, CONROE, TX, 77301-6837
PHONE: (936) 760-6265 Ext: 0
FAX: (936) 760-6280 Ext: 0
EMAIL: SCOTT_A_WAGAMAN@HUNTSMAN.COM

PROJECT NOTES:

11/30/2012 CR/SOS/DFC DONE 11/30/12 - NOT ON APWL

PERMIT NOTES:

FEE:

Reference	Fee Receipt Number	Amount	Fee Receipt Date	Fee Payment Type
2500505904		450.00		CHECK

TRACKING ELEMENTS:

TE Name	Start Date	Complete Date
APIRT RECEIVED PROJECT (DATE)	11/29/2012	
APIRT TRANSFERRED PROJECT TO TECHNICAL STAFF (DATE)	11/30/2012	
CENTRAL REGISTRY UPDATED	11/30/2012	11/30/2012
DEFICIENCY CYCLE		
ENGINEER INITIAL REVIEW COMPLETED (DATE)		

PEER / MANAGER REVIEW PERIOD
PROJECT RECEIVED BY ENGINEER (DATE)

PROJECT RULES:

Unit Desc	Rule Desc	Request Type	On Application	Approve
FACILITIES (EMISSION LIMITATIONS)	106.261 -	ADD	Y	APPROVE
FACILITIES (EMISSION AND DISTANCE LIMITATIONS)	106.262 -	ADD	Y	APPROVE

PERMIT RULES:

Unit Desc	Rule Desc	Start Date	End Date
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PROJECT ATTRIBUTES:

Attributes	Value
PROJECT POINT	



Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

I. REGISTRANT INFORMATION		
A. Company or Other Legal Customer Name: Huntsman Petrochemical LLC		
Company Official Contact Name: Walter R. Stamm		
Title: Plant Manager		
Mailing Address: 5451 Jefferson Chemical Road		
City: Conroe	State: Texas	ZIP Code: 77301
Phone: 936-760-6226	Fax: 936-760-6280	E-mail: walter_stamm@huntsman.com
B. Technical Contact Name: Scott A Wagaman		
Title: Team Leader- Environmental Services		
Company: Huntsman Petrochemical LLC		
Mailing Address: 5451 Jefferson Chemical Rd.		
City: Conroe	State: Texas	ZIP Code: 77301
Phone: 930-760-6265	Fax: 936-760-6280	E-mail: scott_a_wagaman@huntsman.com
C. Facility Location Information - Street Address: 5451 Jefferson Chemical Road		
If "NO," street address, provide written driving directions to the site: (attach description if additional space is needed)		
City: Conroe	County: Montgomery	ZIP Code: 77301
D. Is the Core Data Form (TCEQ Form 10400) attached?		☐ YES ☒ NO
If "No," provide customer reference number and regulated entity number below:		
Customer Reference Number (CN): 603603093		
Regulated Entity Number (RN): 100219740		
II. FACILITY AND SITE INFORMATION		
A. Name and Type of Facility: Bleeder Additions		☒ Permanent ☐ Portable
B. PBR claimed under 30 TAC 106 (List all):		
106. 261 Facilities	106.	
106. 262 Facilities (Emission and Distance Limitations)	106.	
106.	106.	
Are you claiming a historical standard exemption or PBR?		☐ YES ☒ NO
If "YES," enter effective date(s) and rule number(s) in the spaces provided below.		

185838

107107



Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

II. FACILITY AND SITE INFORMATION (continued)			
C. Is there a previous Standard Exemption or PBR for the facility in this registration?			☐ YES ☒ NO
<i>If "YES," enter registration number(s), rule number(s) and effective dates in the spaces provided below.</i>			
D. Are there any other facilities at this site which are authorized by an Air Standard Exemption or PBR?			☒ YES ☐ NO
<i>If "YES," enter registration number(s), rule number(s) and effective dates in the spaces provided below.</i>			
see Title V			
E. Are there any other air preconstruction permits at this site?			☒ YES ☐ NO
<i>If "YES," enter permit number(s) in the spaces provided below.</i>			
see Title V			
Are there any other air preconstruction permits at this site that would be directly associated with this project?			☒ YES ☐ NO
<i>If "YES," enter permit number(s) in the spaces provided below.</i>			
4788			
F. Is this facility located at a site which is required to obtain a Federal Operating Permit (FOP) pursuant to 30 TAC Chapter 122?			☒ YES ☐ NO ☐ To be determined
If the site currently has an existing federal operating permit, enter the permit number.			O-01384
Check the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted.			
☐ Initial Application for an FOP ☐ Significant Revision for an SOP ☐ Minor Revision for an SOP			
☐ Operational Flexibility/off Permit Notification for an SOP ☐ Revision for GOP			
☐ To be Determined ☒ None			
Identify the type(s) issued and/or FOP application(s) submitted/pending for the site. (Check all that apply)			
☐ SOP	☐ GOP	☐ GOP application/revision application: Submitted or under APD review.	
☐ N/A	☒ SOP application/revision application: submitted or under APD review.		
G. TCEQ Account Identification Number (if known):			MQ0012Q





Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

III. FEE INFORMATION	
<i>See Section VI. for address to send fee or go to www6.tceq.texas.gov/epayto pay online.</i>	
A. Is this certification to solely establish a federally enforceable emission limit and not authorize any new facilities?	☐ YES ☒ NO
If "YES," then no fee is required.	
If "NO," then go to Section III.B.	
B. If "YES," to any of the following three questions, a \$100 fee is required. Otherwise, a \$450 fee is required.	
Does this business have less than 100 employees?	☐ YES ☒ NO
Does this business have less than 6 million dollars in annual gross receipts?	☐ YES ☒ NO
Is this registration submitted by a governmental entity with a population of less than 10,000?	☐ YES ☒ NO
C. Enter the check, money order, or transaction number.	2500505904
Enter the individual or company name printed on the check.	Huntsman Petrochemical, LLC
Fee amount (<i>spell out</i>):	\$ 450.00
Was fee Paid online?	☐ YES ☒ NO
IV. SELECTED FACILITY REVIEWS ONLY—TECHNICAL INFORMATION	
<i>Note: If claiming one of the following PBRs, complete this section, then skip to Section VI., "Submitting your registration" below:</i>	
<i>Animal Feeding Operations 30 TAC 106.161, Livestock Auction Facilities 30 TAC 106.162, Saw Mills 30 TAC 106.223, Grain Handling, Storage and Drying 30 TAC 106.283, Auto Body Refinishing Facilities 30 TAC 106.436, and Air Curtain Incinerator 30 TAC 106.496</i>	
A. Is the applicable PBR checklist attached which shows the facility meets all general and specific requirements of the PBR(s) being claimed?	☐ YES ☐ NO
B. Distance from this facility's emission release point to the nearest property line:	feet
Distance from this facility's emission release point to the nearest off-property structure:	feet
V. TECHNICAL INFORMATION - The following information must be submitted with this Form PI-7CERT. Place a check next to the appropriate box to verify you have included it in the submittal.	
☒ Process Flow Diagram	☒ Site Process and Project description
☒ Emissions data and calculations	☒ Table 1(a) (Form 10153) Emission Point Summary





Texas Commission on Environmental Quality
Form PI-7-CERT
Certification and Registration for Permits by Rule

V. TECHNICAL INFORMATION - The following information must be submitted with this Form PI-7-CERT. Place a check next to the appropriate box to verify you have included it in the submittal. (continued)

- | | |
|---|--|
| ☒ Information on meeting the specific PBR requirements
(PBR checklists maybe used and are optional.) | ☒ Information on meeting the general PBR requirements
30 TAC 106.4. (PBR checklists maybe used and are optional.) |
|---|--|

Note: Please be reminded that if the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under 30 TAC Chapter 101, Subchapter H, Division 3, the owner/operator of these facilities must possess NO_x allowances equivalent to the actual NO_x emissions from these facilities.

Distance from this facility's emission release point to the nearest property line:	500	feet
Distance from this facility's emission release point to the nearest off-property structure:	850	feet

Note: In limited cases, a map or drawing of the site and surrounding land use may be requested during the technical review or at the request of the TCEQ Regional Office or local air pollution control program during an investigation.

VI. SIGNATURE FOR CERTIFICATION AND REGISTRATION

The signature below indicates that the Responsible Official has knowledge of the facts herein set forth and that the same are true, accurate, and complete to the best of my knowledge and belief. By this signature, the maximum emission rates listed on this certification reflect the maximum anticipated emissions due to the operation of this facility and all representations in this certification of emissions are conditions upon which the facilities and sources will operate. It is understood that it is unlawful to vary from these representations unless the certification is first revised. The signature certifies that to the best of the Responsible Official's knowledge and belief, the project will satisfy the conditions and limitations of the indicated exemption or permit by rule and the facility will operated in compliance with all regulations of the Texas Commission on Environmental Quality and with Federal U.S. Environmental Protection Agency regulations governing air pollution. The signature below certifies that, based on information and belief formed after reasonable inquiry, the statements and information above and contained in the attached document(s) are true, accurate, and complete. **If you questions on how to fill out this form or about air quality permits. Please call (512) 239-1250. Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call (512) 239-3282.**

SIGNATURE: W. R. D.
(ORIGINAL SIGNATURE REQUIRED)

11/27/12



HUNTSMAN

Enriching lives through innovation

AIR PERMITS DIVISION

NOV 29 2012

RECEIVED

NOV 29 2012
APIRT

Via Federal Express

November 27, 2012

Air Permits Initial Review Team (APIRT) – MC 161
Texas Commission on Environmental Quality
Building C, Third Floor
12100 Park 35 Circle
Austin, TX 78753

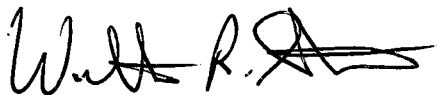
RE: Huntsman Petrochemical LLC – Conroe Plant
Permits by Rule 30 TAC §§106.261 & 262 Registration and Certification
Bleeder Addition Project
Customer Number: CN-603603093
Regulated Entity Number: RN-100219740

Attn: APIRT

The Huntsman Petrochemical Corporation–Conroe Plant has prepared the attached documents to notify the Texas Commission on Environmental Quality (TCEQ) of the intent to use Permits by Rule 30 TAC §§106.261 & 262 to authorize fugitive emissions associated with the above referenced project. The completed registration form PI-7-CERT and supporting documentation will demonstrate that the general requirements of 30 TAC §106.4 and the specific requirements of 30 TAC §§106.261 & 262 are met. The required fee has been mailed separately to the TCEQ Revenue Section. A copy of the check is enclosed.

If you have any questions, please contact Mark Strohbeck at 936-760-6224.

Sincerely,



Walter R. Stamm
Plant Manager

Enclosures

cc: Air Permits Division, TCEQ Region 12, 5425 Polk Ave., Houston, Texas 77023-1486
Mr. Ryan Mayces, Waid Environmental, Houston, TX

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Huntsman Petrochemical LLC Conroe Plant

Permits by Rule 106.261 and 106.262 Registration

Conroe, Montgomery County
Air Quality Account ID No. MQ0012Q
Regulated Entity No. RN100219740
Customer No. CN603603093

September 2012

Prepared by:

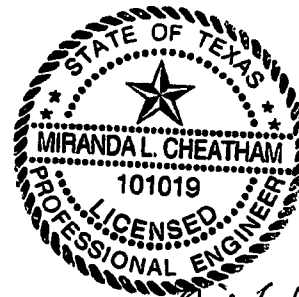


Richard B. Campbell, EIT
Graduate Engineer

Approved by:



Miranda Cheatham, P.E.
Senior Engineer



Miranda L. Cheatham
09/26/2012

Waid Corporation dba Waid Environmental
Certificate of Registration No. F-58



www.waid.com

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<u>ATTACHMENTS TO THE FORM PI-7-CERT</u>	<u>PAGE NO.</u>
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V.2 PROCESS FLOW DIAGRAM	2
V.3 TABLE 1(A) (FORM 10153) EMISSION POINT SUMMARY	3
V.4 EMISSIONS DATA AND CALCULATIONS	5
V.5 GENERAL REQUIREMENTS	16
V.6 SPECIFIC REQUIREMENTS.....	25

ATTACHMENT V.1

SITE PROCESS AND PROJECT DESCRIPTION

General Description

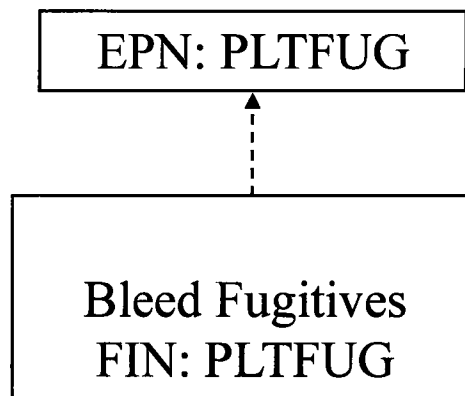
Huntsman Petrochemical LLC (Huntsman) proposes to add several fugitive components associated with bleeder valves. The purpose is to safely verify lack of pressure on a line before removing the end cap.

Bleeder Additions

This submittal authorizes the addition of 77 valves associated with the bleeder modification project. Connectors will be welded at each valve. These bleeders are being added to enhance safety. Huntsman proposes to authorize the fugitive emissions under Permit by Rules No. 106.261 and 106.262. The attached chemicals list shows the various chemicals that the fugitive components may come in contact with.

ATTACHMENT V.2

Process Flow Diagram



HUNTSMAN PETROCHEMICAL LLC
CONROE PLANT
BLEEDER FUGITIVES
PERMITS BY RULE NOS. 106.261 AND 106.262 REGISTRATION

SEPTEMBER 2012

ATTACHMENT V.3

TABLE 1(a) (FORM 10153) EMISSION POINT SUMMARY



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

Date:	September 2012	Permit No.:	Regulated Entity No.:	RN100219740
Area Name:	Huntsman Petrochemical LLC		Customer Reference No.:	CN603603093

Review of applications and issuance of permits will be expedited by supplying all necessary information requested on this Table.

[illegible]

EPN = Emission Point Number

FTN = Facility Identification Number

TCEQ-10153 (Revised 0408)

This form is for use by sources subject to air quality

permit requirements and may be revised periodically. [APDG 5178v4]

Printed 09/11/2012 12:11

ATTACHMENT V.4

EMISSIONS DATA AND CALCULATIONS

Fugitive emissions are calculated by multiplying a source count by an emission factor. The emission factors used for this facility are SOCMI without ethylene from TCEQ guidance dated October 2000. Control efficiencies are based on a 28VHP Leak Detection & Repair Program with 500 ppm quarterly flange monitoring. Connectors are controlled at 100% because they are welded. Calculations are attached.

HUNTSMAN PETROCHEMICAL LLC
CONROE PLANT
BLEEDER FUGITIVES
PERMITS BY RULE NOS. 106.262 AND 106.262 REGISTRATION

SEPTEMBER 2012

EMISSIONS SUMMARY

EPN	DESCRIPTION	TOTAL VOC	
		(lb/hr)	(tons/yr)
PLNTFUG	Plant Fugitives	0.00809	0.0354
TOTAL		0.00809	0.0354

§106.261 & §106.262 – Requirement Verification

Chemical (–)	L (mg/m3)	K (850 ft)	Hourly Rate Limit (lb/hr)	Hourly Emission Rate (lb/hr)	Authorization	Meets Authorization
Representative ¹	--	--	6.0	0.0081	106.261(a)(2)	YES
Representative ²	--	--	1.0	0.0081	106.261(a)(3)	YES
Representative ³	0.37	42.5	0.0087	0.0081	106.262	YES

1. Represents worst-case chemical listed on the approved chemicals list authorized under 106.261(a)(2).
2. Represents worst-case chemical listed on the approved chemicals list authorized under 106.261(a)(3).
3. Represents worst-case chemical listed on the approved chemicals list authorized under 106.262.

VOC FUGITIVE EMISSIONS SUMMARY SHEET

Facility Information

FIN	PLNTFUG
EPN	PLNTFUG
Project	
Hours of Operation	8760

Total Emissions Estimates

Equipment Type	Component Count	Emission Factor ¹	Control Efficiency ^{2,3}	Emissions Rate (lb/hr)	Emissions Rate (tons/yr)
Valves - Gas/Vapor	77	0.0089	0.97	0	0
Valves - Light Liquid		0.0035	0.97	0.00809	0.03541
Valves - Heavy Liquid		0.0007	0.30	0	0
				0	0
Pumps - Light Liquid	77	0.0386	0.85	0	0
Pumps - Light Liquid - sealed		0.0386	1.00	0	0
Pumps - Heavy Liquid		0.0161	0.85	0	0
				0	0
Connectors - Gas/Vapor	77	0.0029	1.00	0	0
Connectors - Light Liquid		0.0005	1.00	0	0
Connectors - Heavy		0.00007	1.00	0	0
Total Emissions				0.00809	0.03540

NOTES:

(1) SOCM I w/o ethylene emission factors

(2) Control factors are based on a 28VHP Leak Detection and Repair Program with 500 ppm quarterly flange monitoring.

(3) All connectors are welded and therefore sealed

Example calculation for valves servicing Light Liquid:

Maximum Hourly Emission Rate:

77 Valves	0.0035 lb VOC	(1 - 0.97) lb VOC	0.00809 lb/hr VOC
	valve hour	1 lb VOC	

Annual Average Emission Rate

0.00809 lb VOC	1 ton VOC	8760 hours	= 0.0354123 ton/yr VOC
hr	2000 lb VOC	year	

Huntsman Petrochemical LLC - Conroe
Approved Chemical List

Constituent	L value mg/m ³	Source of TLV	Exemption No.
2,5-Dimethylmorpholine	NA		106.261(a)(3)
JEFFCAT® 271	NA		106.261(a)(3)
2-Methoxyethanol	16	1997 TLVs and BEI	106.262
4-Methyl-2-Morpholinone	NA		106.261(a)(3)
Diethanolamine 95-99%/Ethanolamine (1-3%)	2	1997 TLVs and BEI	106.262
ACCELERATOR 399	NA		106.261(a)(3)
Acetic acid	25	1997 TLVs and BEI	106.262
Acetone	1188	1997 TLVs and BEI	106.262
Acrylonitrile	4.3	1997 TLVs and BEI	106.262
Proprietary Amine	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
Alcohol Alkoxylates	NA		106.261(a)(3)
Alcohol Polyalkoxyamine	NA		106.261(a)(3)
Alfol® 1216 Alcohol	NA		106.261(a)(3)
Alkyletheramine	NA		106.261(a)(3)
Alkylphenoxypolyalkoxyamine	NA		106.261(a)(3)
Alkylphenylpolyetheramine	NA		106.261(a)(3)
Aminated C8-C20 Alcohol Alkoxylates	NA		106.261(a)(3)
Amine C-12	NA		106.261(a)(3)
Amine C-4	NA		106.261(a)(3)
Ethanol, 2,2'-oxybis-, reaction products with ammonia, morpholine derivs. Residues	NA		106.261(a)(3)
Amine C-7 (MDEA Residue)	NA		106.261(a)(3)
Ethoxylated methyldiethanolamine adducts	NA		106.261(a)(3)
Ethoxylated methyldiethanolamine adducts	NA		106.261(a)(3)
Amines	NA		106.261(a)(3)
2-aminoethoxyethanol	NA		106.261(a)(3)
Aminoethylethanolamine	NA		106.261(a)(3)
Aminoethylpiperazine	NA		106.261(a)(3)
Aminopropyldiethanolamine	NA		106.261(a)(3)
Aminopropylmorpholine	NA		106.261(a)(3)
Ammonia	17	1997 TLVs and BEI	106.262
AMU Residue	NA		106.261(a)(3)
NEM Residue	NA		106.261(a)(3)
Antifoam	NA		106.261(a)(3)
Aminopropylmonomethylethanolamine	NA		106.261(a)(3)
Bisaminoethylether	NA		106.261(a)(3)
Ethyl Bromide	22	1997 TLVs and BEI	106.262
n-butyl alcohol	152	1997 TLVs and BEI	106.262
Butylene Carbonate	NA		106.261(a)(3)
Butylene Carbonate Catalyst	NA		106.261(a)(3)
Butylene Oxide	NA		106.261(a)(3)
Alkylpoly(oxyalkylene)amine	NA		106.261(a)(3)
C40-C80 Olefins	NA		106.261(a)(3)
CARPOL GP-6515	NA		106.261(a)(3)
Cyclohexane	1030	1997 TLVs and BEI	106.262
Ethylene oxide/propylene oxide copolymer	NA		106.261(a)(3)
Ethanol (denatured)	1880	1997 TLVs and BEI	106.262
Diethanolamine	2	1997 TLVs and BEI	106.262
Diethylamine	15	1997 TLVs and BEI	106.262
Diethylene Glycol	NA		106.261(a)(3)
Diethylenetriamine	4.2	1997 TLVs and BEI	106.262
Diethylethanolamine	9.6	1997 TLVs and BEI	106.262
Diethyltoluenediamine	NA		106.261(a)(3)
Diglycolamine	NA		106.261(a)(3)
Dimethylamine	9.2	1997 TLVs and BEI	106.262
Dimethylaminoethoxyethanol	NA		106.261(a)(3)
Dimethyldiglycolamine	NA		106.261(a)(3)
Dimethylaminoethoxyethanol	NA		106.261(a)(3)
Dimethylaminoethoxyethanol	NA		106.261(a)(3)
Dimethylaminopropylamine	NA		106.261(a)(3)
Dimethylcyclohexanolamine	NA		106.261(a)(3)
Dimethylethanolamine	NA		106.261(a)(3)
Dimethylpiperazine	NA		106.261(a)(3)
Dimorpholinediethylether	NA		106.261(a)(3)

Dimorpholinoethane	NA		106.261(a)(3)
Diisopropanolamine	NA		106.261(a)(3)
Dipropylene glycol	NA		106.261(a)(3)
Dipropylene glycol	NA		106.261(a)(3)
JEFFCAT® DM-70	NA		106.261(a)(3)
Dimorpholinediethylether	NA		106.261(a)(3)
Polyol	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
Poly[oxy(methyl-1,2-ethanediyl)], alpha, alpha'-(oxydi-2,1-ethanediyl)bis[omega-(aminomethylethoxy)-]	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
EDA Alkoxyates	NA		106.261(a)(3)
2,2',2''-(1,2-Ethanediyl)dinitrilo tetrakisethanol	NA		106.261(a)(3)
2-Methoxyethanol	16	1997 TLVs and BEI	106.262
EMI-936	NA		106.261(a)(3)
ULTRAHIB	NA		106.261(a)(3)
EMI-939	NA		106.261(a)(3)
Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	NA		106.261(a)(3)
C12-C14 Alkyl Alcohol	NA		106.261(a)(3)
Bisphenol A diglycidyl ether	NA		106.261(a)(3)
Ethanol	1880	1997 TLVs and BEI	106.262
Ethyl Bromide	22	1997 TLVs and BEI	106.262
Ethylene Carbonate	NA		106.261(a)(3)
Ethylene Carbonate	NA		106.261(a)(3)
Ethylene Carbonate Catalyst	NA		106.261(a)(3)
Ethylene Glycol	100	1997 TLVs and BEI	106.262
Ethylene Oxide	1.8	1997 TLVs and BEI	106.262
Ethylenediamine	25	1997 TLVs and BEI	106.262
2-ethylhexanoic acid	NA		106.261(a)(3)
Formcel	0.37	1997 TLVs and BEI	106.262
Formaldehyde 50% Solution	0.37	1997 TLVs and BEI	106.262
Formalin	0.37	1997 TLVs and BEI	106.262
Formic acid	9.4	1997 TLVs and BEI	106.262
Trihydroxypropane	10	1997 TLVs and BEI	106.262
Glyceryl Polyoxyalkylene Triamine	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/1,2,3 propanetriol	NA		106.261(a)(3)
Proprietary Components	NA		106.261(a)(3)
Hydrogen peroxide	NA		106.261(a)(3)
Hydroxyethoxyethylmorpholine	NA		106.261(a)(3)
Hydroxyethylmorpholine	NA		106.261(a)(3)
Isophorone diamine	NA		106.261(a)(3)
Iminobispropylamine	NA		106.261(a)(3)
Isophorone diamine	NA		106.261(a)(3)
2-propanol	983	1997 TLVs and BEI	106.262
Isopropylamine	12	1997 TLVs and BEI	106.262
Methoxy poly (oxyethylene/oxypropylene) -2-propylamine	NA		106.261(a)(3)
Methoxy poly (oxyethylene/oxypropylene) -2-propylamine	NA		106.261(a)(3)
Methoxy poly (oxyethylene/oxypropylene) -2-propylamine	NA		106.261(a)(3)
N,N,N' dimethylaminopropyl hexa hydro triazine	NA		106.261(a)(3)
JEFFCAT® Z-47	NA		106.261(a)(3)
bis(urea) of JEFFAMINE® D-2000	NA		106.261(a)(3)
Polyoxypropylenediamine	NA		106.261(a)(3)
Polyoxypropylenediamine	NA		106.261(a)(3)
Polyoxypropylenediamine	NA		106.261(a)(3)
Polyoxypropylenediamine	NA		106.261(a)(3)
amine terminated urea condensate with JEFFAMINE® D-400	NA		106.261(a)(3)
Poly(oxy(ethyl-1,2-ethanediyl)), alhpa-(2-aminoethyl(ethyl)-omega-(2-aminoethylethoxy)-, polymer with oxirane & oxirane, methyl	NA		106.261(a)(3)
Triethyleneglycol diamine	NA		106.261(a)(3)
JEFFAMINE® polyetheramines	NA		106.261(a)(3)
Glyceryl poly(oxypropylene)triamine	NA		106.261(a)(3)
Polyoxypropylene triamine	NA		106.261(a)(3)
Glyceryl poly(oxypropylene)triamine	NA		106.261(a)(3)
JEFFCAT® 283	NA		106.261(a)(3)
2-propanol, 1,1'-(3-(dimethylamino)propyl)imino)bis-	NA		106.261(a)(3)
JEFFCAT® DPO catalyst	NA		106.261(a)(3)
2,2'-(1,2ethanediylbis(oxy)bix(N,N-dimethyl)ethaneamine	NA		106.261(a)(3)
JEFFCAT® ERC-219	NA		106.261(a)(3)
JEFFCAT® HS	NA		106.261(a)(3)
JEFFCAT® LE-15	NA		106.261(a)(3)
JEFFCAT® LPO catalyst	NA		106.261(a)(3)

JEFFCAT® Z-65P	NA		106.261(a)(3)
Diethyleneglycol monobutylether	NA		106.261(a)(3)
Alcyclic amine	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Polyether polyol blend	NA		106.261(a)(3)
Alkoxylated ethylene diamine	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
JEFFOX® G-400	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Polyol	NA		106.261(a)(3)
Glycerol polyether	NA		106.261(a)(3)
Glycerol polyether	NA		106.261(a)(3)
1-Butanol/EO/PO copolymer	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
1-Butanol/EO/PO copolymer	NA		106.261(a)(3)
JEFFTREAT® M-500 ADDITIVE	NA		106.261(a)(3)
JEFFTREAT® M-510	NA		106.261(a)(3)
JEFFTREAT® MS-205	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
JEFFOL® R-290	NA		106.261(a)(3)
JEFFOL® R-425X	NA		106.261(a)(3)
JEFFOL® SF-265	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-hydro-omega-hydroxy	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Ethylene Carbonate	NA		106.261(a)(3)
JEFFSOL® EC-25	NA		106.261(a)(3)
JEFFSOL® EC-50	NA		106.261(a)(3)
Propylene Carbonate	NA		106.261(a)(3)
Propylene Carbonate	NA		106.261(a)(3)
JEFFTREAT® MP	NA		106.261(a)(3)
JEFFTREAT® MS-100	NA		106.261(a)(3)
JEFFTREAT® MS-300	NA		106.261(a)(3)
Alkyl ether amine	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
Alkyl ether amine	NA		106.261(a)(3)
JEFFCAT® M-75	NA		106.261(a)(3)
Methyldiethanolamine-EO adduct	NA		106.261(a)(3)
Methanol	262	1997 TLVs and BEI	106.262
Methanol 6EO Adduct	NA		106.261(a)(3)
Methoxyethylmorpholine	NA		106.261(a)(3)
Methoxyethylmorpholine	NA		106.261(a)(3)
Methoxypolyoxyalkylene-2-propylamine	NA		106.261(a)(3)
Methoxypropylamine	NA		106.261(a)(3)
Methoxypropylamine	NA		106.261(a)(3)
2-Methoxyethanol	16	1997 TLVs and BEI	106.262
Methyldiethanolamine	NA		106.261(a)(3)
Methyldiethanolamine	NA		106.261(a)(3)
2,2'-(methylimino)bis-ethanol	NA		106.261(a)(3)
Methylmonoethanolamine	NA		106.261(a)(3)
Methylmonoethanolamine	NA		106.261(a)(3)
MMEA Crude	NA		106.261(a)(3)
JEFFCAT® MM-70	NA		106.261(a)(3)
Monoethanolamine	7.5	1997 TLVs and BEI	106.262
Monomethylamine	6.4	1997 TLVs and BEI	106.262
Methylamine	6.4	1997 TLVs and BEI	106.262
Monononylphenol	NA		106.261(a)(3)
Monononylphenol	NA		106.261(a)(3)
Morpholine	71	1997 TLVs and BEI	106.262
Methoxypropionitrile	NA		106.261(a)(3)
Nonylphenol, ethoxylated	NA		106.261(a)(3)
Nonylphenol, ethoxylated	NA		106.261(a)(3)
N-butylmorpholine	NA		106.261(a)(3)
N-ethylmorpholine	24	1997 TLVs and BEI	106.262

JEFFCAT® NEM	24	1997 TLVs and BEI	106.262
N-formyl morpholine	NA		106.261(a)(3)
N-Methylmorpholine	NA		106.261(a)(3)
JEFFCAT® NMM	NA		106.261(a)(3)
NMM Residue	NA		106.261(a)(3)
Alkaryl polyoxybutylene alcohol	NA		106.261(a)(3)
Paraffins (C7-C20)	NA		106.261(a)(3)
Proprietary Components	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Polypropylene glycol	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
PED-3600	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Poly(oxy-1,2-ethanediyl), alpha-hydro-omega- hydroxy	NA		106.261(a)(3)
Pentaethylenhexamine	NA		106.261(a)(3)
Pentamethyldiethylenetriamine	NA		106.261(a)(3)
Phenol	19	1997 TLVs and BEI	106.262
Piperazine	NA		106.261(a)(3)
Piperazine Eutectic	NA		106.261(a)(3)
JEFFCAT® PM	NA		106.261(a)(3)
Methoxypoly(oxythylene/oxypropylene)-2-propanol	NA		106.261(a)(3)
Methoxypoly(oxythylene/oxypropylene)-2-propanol	NA		106.261(a)(3)
Methoxypoly(oxythylene/oxypropylene)-2-propanol	NA		106.261(a)(3)
Methoxypoly(oxythylene/oxypropylene)-2-propanol	NA		106.261(a)(3)
Alkylphenol alkoxylate	NA		106.261(a)(3)
PNP-1047	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
SURFONIC® POA-L62LF	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Polyacrylic acid	NA		106.261(a)(3)
Polyetheramines	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Methoxypoly(oxythylene/oxypropylene)-2-propanol	NA		106.261(a)(3)
Polyoxyalkylene Amine	NA		106.261(a)(3)
Potassium Hydroxide	2	1997 TLVs and BEI	106.262
Polypropylene glycol	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-hydro-omega-hydroxy	NA		106.261(a)(3)
Propanediamine	NA		106.261(a)(3)
Propylene Carbonate	NA		106.261(a)(3)
Propylene Glycol	NA		106.261(a)(3)
Propylene Oxide	48	1997 TLVs and BEI	106.262
Oxirane, methyl-, polymer w/1,2,3 propanetriol	NA		106.261(a)(3)
Glycerol polyether	NA		106.261(a)(3)
Glyceryl poly(oxypropylene) triamine	NA		106.261(a)(3)
Trimethylolpropane - 4 mole butylene oxide adduct	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-hydro-omega-hydroxy-, ether w/ 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-hydro-omega-hydroxy-, ether w/ 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-hydro-omega-hydroxy-, ether w/ 2-ethyl-2-(hydroxymethyl)-1,3-propanediol (3:1)	NA		106.261(a)(3)
PT-403 w/DMCHA	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
polytetramethylene ether glycol	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/ alpha-hydro-omega-hydroxypoly (oxy-1,4-butanediyl)	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/ alpha-hydro-omega-hydroxypoly (oxy-1,4-butanediyl)	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
Alcohols, C10-16	NA		106.261(a)(3)
Secondary Polyether Amines	NA		106.261(a)(3)
SF1505A	NA		106.261(a)(3)
Sodium borohydride	NA		106.261(a)(3)
Sodium methylate	NA		106.261(a)(3)
Sodium methylate 25%	NA		106.261(a)(3)
Sucrose	10	1997 TLVs and BEI	106.262
Alkylphenoxypolyalkoxyamine	NA		106.261(a)(3)
Alkylphenoxypolyalkoxyamine	NA		106.261(a)(3)
Alkylphenoxypolyalkoxyamine	NA		106.261(a)(3)

Proprietary components	NA		106.261(a)(3)
1-Propanamine, 3-butoxy	NA		106.261(a)(3)
SURFONIC® EDA4/80	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/oxirane	NA		106.261(a)(3)
Talloil fatty acids	NA		106.261(a)(3)
JEFFCAT® TD-33A	NA		106.261(a)(3)
Triethanolamine 85%	5	1997 TLVs and BEI	106.262
Triethanolamine	5	1997 TLVs and BEI	106.262
Tetraethylenepentamine	NA		106.261(a)(3)
Tetramethylolbisaminoethylether	NA		106.261(a)(3)
TEXLIN 300	NA		106.261(a)(3)
TEXLIN 400	NA		106.261(a)(3)
TFA-4711	NA		106.261(a)(3)
TFA-4713	NA		106.261(a)(3)
Proprietary components	NA		106.261(a)(3)
THANOL® F-3550	NA		106.261(a)(3)
Triethanolamine	5	1997 TLVs and BEI	106.262
Triethylamine	4.1	1997 TLVs and BEI	106.262
Triethylene glycol	NA		106.261(a)(3)
Triethylenediamine	NA		106.261(a)(3)
Triethylenetetramine	NA		106.261(a)(3)
Trimethylaminoethylethanolamine	NA		106.261(a)(3)
Trimethylolpropane	NA		106.261(a)(3)
Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	NA		106.261(a)(3)
Tris (2-hydroxyethyl) methylammonium hydroxide	NA		106.261(a)(3)
Urea	NA		106.261(a)(3)
Versamine 900	NA		106.261(a)(3)
XAS 10773.00L Experimental Amine	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
Glyceryl (polyoxyethylene) ether	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/ oxirane, mono-butyl ether	NA		106.261(a)(3)
JEFFCAT® WTB-70	NA		106.261(a)(3)
Triethylene glycol, reaction products with ammonia	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/ oxirane, bis(2-aminopropyl)ether	NA		106.261(a)(3)
Polyetheramine	NA		106.261(a)(3)
Polyetheramine	NA		106.261(a)(3)
Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer w/ ammonia	NA		106.261(a)(3)
Poly(oxy-1,4-butanediyl), alpha-hydro-omega-hydroxy-, polymer w/ ammonia	NA		106.261(a)(3)
1-Propanamine, 3,3'-(1,2-ethanediylbix(oxy))bis-	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/ alpha-hydro-omega-hydroxypoly(oxy-1,4-butanediyl), bis(2-aminomethylethyl)ether	NA		106.261(a)(3)
Oxirane, methyl-, polymer w/ alpha-hydro-omega-hydroxypoly(oxy-1,4-butanediyl), bis(2-aminomethylethyl)ether	NA		106.261(a)(3)
Aliphatic polyether triamine	NA		106.261(a)(3)
Aliphatic polyetheramine	NA		106.261(a)(3)
1-Propanamine, 3,3'-(1,2-ethanediylbix(oxy))bis-	NA		106.261(a)(3)
JEFFCAT® Z 65	NA		106.261(a)(3)
JEFFCAT® Z-65D	NA		106.261(a)(3)
JEFFCAT® Z-177	NA		106.261(a)(3)
JEFFCAT® Z-77	NA		106.261(a)(3)
2-[[2-(2-Dimethylamino) ethoxy] ethyl] methylamino] ethanol	NA		106.261(a)(3)
JEFFCAT® ZF-123	NA		106.261(a)(3)
Bis (dimethylaminoethyl) ether	NA		106.261(a)(3)
Bis (dimethylaminoethyl) ether	NA		106.261(a)(3)
JEFFCAT® ZF 22	NA		106.261(a)(3)
JEFFCAT® ZF 24	NA		106.261(a)(3)
JEFFCAT® ZF 26	NA		106.261(a)(3)
JEFFCAT® ZF-43	NA		106.261(a)(3)
JEFFCAT® ZF-52	NA		106.261(a)(3)
JEFFCAT® ZF-53	NA		106.261(a)(3)
JEFFCAT® ZF-54	NA		106.261(a)(3)
JEFFCAT® ZF-72	NA		106.261(a)(3)
2-propanol, 1-(bis(3-(dimethylamino)propyl)amino)-	NA		106.261(a)(3)
JEFFCAT® ZR-81	NA		106.261(a)(3)
Alcohol Ethoxylate Polyalkoxyamine	NA		106.261(a)(3)
Polyetheramine derivative	NA		106.261(a)(3)
XTJ-817	NA		106.261(a)(3)
Aminopropyl methoxy diethylene glycol	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
Propylene Carbonate Catalyst	NA		106.261(a)(3)
EG/ BO/ Cyclohexyldimethylamine polymer	NA		106.261(a)(3)

Methoxypoly(oxyethylene/oxypropylene)-2-propanol	NA		106.261(a)(3)
JFFE4842	NA		106.261(a)(3)
Ethylene oxide/propylene oxide copolymer	NA		106.261(a)(3)
Isopropylmorpholine	NA		106.261(a)(3)
N,N'-bis(2-propyl)polyoxypropylenediamine	NA		106.261(a)(3)
N,N'-bis(2-propyl)polyoxypropylenediamine	NA		106.261(a)(3)
N,N'-bis(2-propyl)polyoxypropylenediamine	NA		106.261(a)(3)
N,N'-bis(2-propyl)polyoxypropylenediamine	NA		106.261(a)(3)
N,N'-bis(2-propyl)polyoxypropylenediamine	NA		106.261(a)(3)
N,N'-bis(2-propyl)polyoxypropylenediamine	NA		106.261(a)(3)
Proprietary Components	NA		106.261(a)(3)
Triethylene glycol, reaction products with Ammonia	NA		106.261(a)(3)
Polyoxypropylenediamine	NA		106.261(a)(3)
Polyoxypropylenediamine	NA		106.261(a)(3)
Poly(oxyalkylene)polymer	NA		106.261(a)(3)
Polyether polyol	NA		106.261(a)(3)
PRECURSOR PT-360	NA		106.261(a)(3)
Alkyl ether amine	NA		106.261(a)(3)
JEFFCAT® ZFP-153	NA		106.261(a)(3)
JEFFCAT® TR-63 Catalyst	NA		106.261(a)(3)
JEFFCAT® ZF-230A	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)	NA		106.261(a)(3)
Phosphoric acid	1	1997 TLVs and BEI	106.262
Proprietary Components	NA		106.261(a)(3)
JEFFCAT® ZF-167	NA		106.261(a)(3)
ACCELERATOR 60	NA		106.261(a)(3)
ACCELERATOR 81	NA		106.261(a)(3)
Poly(oxy(methyl-1,2-ethanediyl)),alpha-(2-aminomethylethyl)omega-(2-aminomethylethoxy)	NA		106.261(a)(3)
1,3-cyclohexane-dicarboxaldehyde	NA		106.261(a)(3)
1,4-cyclohexane-dicarboxaldehyde	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
Triethylene glycol diamine	NA		106.261(a)(3)
BASF AMIX DA5	NA		106.261(a)(3)
JEFFAMINE® D-630	NA		106.261(a)(3)
XTA-770	NA		106.261(a)(3)
Proprietary component	NA		106.261(a)(3)
JEFFCAT® LE-210	NA		106.261(a)(3)
Polyetheramine	NA		106.261(a)(3)
JEFFCAT® LE-11210	NA		106.261(a)(3)
Polyacrylic acid	NA		106.261(a)(3)
JEFFCAT® LE-310	NA		106.261(a)(3)
XTJ-502 LFG	NA		106.261(a)(3)
JEFFCAT® LE 425	NA		106.261(a)(3)
JEFFCAT® LED 204	NA		106.261(a)(3)
Dimethylaminoethoxypropylamine	NA		106.261(a)(3)
4-Methoxyphenol	5	1997 TLVs and BEI	106.262
Phenothiazine	5	1997 TLVs and BEI	106.262
Dimethyl Sulfoxide (DMSO)	NA		106.261(a)(3)
XTA-795	NA		106.261(a)(3)
n-Heptane	NA		106.261(a)(3)
tert-Butyl alcohol	303	1997 TLVs and BEI	106.262
JEFFCAT® LE-295	NA		106.261(a)(3)
Oxirane, methyl-, polymer with alpha-hydro-omega-hydroxypoly (oxy-1,4-butanediyl)	NA		106.261(a)(3)
Terrathane2000 (Ptmeq2000)	NA		106.261(a)(3)
Sulfuric Acid	1	1997 TLVs and BEI	106.262
Lactic Acid	NA		106.261(a)(3)
Benzylidimethylamine	NA		106.261(a)(3)
Dimethylaminopropionitrile	NA		106.261(a)(3)
Cyanoethylmorpholine	NA		106.261(a)(3)
3-[2-(dimethylamino)ethoxy]propanenitrile	NA		106.261(a)(3)
Dimethylethanolamine 50%	NA		106.261(a)(3)
JEFFCAT® LED-101	NA		106.261(a)(3)
JEFFCAT® Z-83	NA		106.261(a)(3)
JEFFCAT® ZF-456	NA		106.261(a)(3)
JEFFTREAT® MP-442	NA		106.261(a)(3)
JEFFTREAT® MS-150	NA		106.261(a)(3)
JEFFTREAT® MS-203	NA		106.261(a)(3)
JEFFTREAT® MS-205LFG	NA		106.261(a)(3)
JEFFTREAT® M-505	NA		106.261(a)(3)
JEFFTREAT® M-507	NA		106.261(a)(3)
N-[3-(Dimethylamino)propyl]-N,N',N'-trimethylpropane-1,3-diamine	NA		106.261(a)(3)

JEFFCAT® LED-103	NA		106.261(a)(3)
N-hydroxyethyl DETA	NA		106.261(a)(3)
Tetramethyliminobispropylamine	NA		106.261(a)(3)
JEFFCAT® Z-131	NA		106.261(a)(3)
Hydroxyethylpiperazine	NA		106.261(a)(3)
Polyoxyalkyleneamine	NA		106.261(a)(3)
Alkyl ether amine	NA		106.261(a)(3)
Methoxy poly (oxyethylene/oxypropylene) -2-propylamine	NA		106.261(a)(3)
Alkyl ether amine	NA		106.261(a)(3)
Alkyl ether amine	NA		106.261(a)(3)
XTA-796	NA		106.261(a)(3)
XTA 800	NA		106.261(a)(3)
4-methyl-2-pentanol	104	1997 TLVs and BEI	106.262
JEFFTREAT® AO-832	NA		106.261(a)(3)
AEEA Crude Feed	NA		106.261(a)(3)
AEEA Crude Byproduct	NA		106.261(a)(3)
Polyoxyalkylene alkyl ether	NA		106.261(a)(3)
Tetrahydrofuran	590	1997 TLVs and BEI	106.262
Alkyl ether amine	NA		106.261(a)(3)
2-vinyloxyethanol	NA		106.261(a)(3)
1,4-dioxane	90	1997 TLVs and BEI	106.262
DMEA Residue	NA		106.261(a)(3)
DMEA WIP	NA		106.261(a)(3)
DMDEE Crude	NA		106.261(a)(3)
XTA795LTS	262	1997 TLVs and BEI	106.262
DMDEE Residue	NA		106.261(a)(3)
Cyanocyclohexanecarboxyaldehyde	NA		106.261(a)(3)
Benzene, C14-30 alkyl derivatives	NA		106.261(a)(3)
LE 60 Bottoms	NA		106.261(a)(3)
JEFFCAT® ZF-125	NA		106.261(a)(3)
Triethylene glycol monoamine	NA		106.261(a)(3)
Tris (3 dimethylaminopropyl)amine	NA		106.261(a)(3)
APDEA Feed	2	1997 TLVs and BEI	106.262
Methanol	262	1997 TLVs and BEI	106.262
Int./waste from DMAPA production	NA		106.261(a)(3)
Methanol	262	1997 TLVs and BEI	106.262
PolyFroth® W22C Crude	NA		106.261(a)(3)
dodecylphenoxypropoxypropionitrile	NA		106.261(a)(3)

ATTACHMENT V.5

GENERAL REQUIREMENTS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
PERMIT BY RULE CONSIDERATIONS
REGULATION 106
SUBCHAPTER A - GENERAL REQUIREMENTS

§106.1. Purpose. (Effective September 4, 2000)

This chapter identifies certain types of facilities or changes within facilities which the commission has determined will not make a significant contribution of air contaminants to the atmosphere pursuant to the Texas Health and Safety Code, the Texas Clean Air Act (TCAA), §382.057 and §382.05196.

Huntsman Petrochemical LLC

This registration is for facilities that do not make a significant contribution of air contaminants to the atmosphere pursuant to state regulatory requirements.

§106.2 Applicability. (Effective September 4, 2000)

This chapter applies to certain types of facilities or changes within facilities listed in this chapter where construction is commenced on or after the effective date of the relevant permit by rule.

Huntsman Petrochemical LLC

The proposed project qualifies for permit by rule under the most recent version of §106.261 and §106.262.

§106.4 Requirements for Permitting by Rule (Effective May 15, 2011)

(a) To qualify for a permit by rule, the following general requirements must be met.

- (1) Total actual emissions authorized under permit by rule from the facility shall not exceed 250 tons per year (tpy) of carbon monoxide (CO) or nitrogen oxides (NOx); or 25 tpy of volatile organic compounds (VOC) or sulfur dioxide (SO₂) or inhalable particulate matter (PM); or 15 tpy of particulate matter with diameters of 10 microns or less (PM₁₀); or 10 tpy of particulate matter with diameters of 2.5 microns or less (PM_{2.5}); or 25 tpy of any other air contaminant except carbon dioxide, water, nitrogen, methane, ethane, hydrogen, and oxygen.**

Huntsman Petrochemical LLC

Total actual emissions authorized by permit by rule from the project are below the emission limits.

- (2) **Any facility or group of facilities, which constitutes a new major stationary source, as defined in §116.12 of this title (relating to Nonattainment and Prevention of Significant Deterioration Review Definitions), or any modification which constitutes a major modification, as defined in §116.12 of this title, under the new source review requirements of the Federal Clean Air Act (FCAA), Part D (Nonattainment) as amended by the FCAA Amendments of 1990, and regulations promulgated thereunder, must meet the permitting requirements of Chapter 116, Subchapter B of this title (relating to New Source Review Permits) and cannot qualify for a permit by rule under this chapter. Persons claiming a permit by rule under this chapter should see the requirements of §116.150 of this title (relating to New Major Source or Major Modification in Ozone Nonattainment Areas) to ensure that any applicable netting requirements have been satisfied.**

Huntsman Petrochemical LLC

Does not apply. The facility in this registration does not constitute a new major source or a major modification.

- (3) **Any facility or group of facilities, which constitutes a new major stationary source, as defined in 40 Code of Federal Regulations (CFR) §52.21, or any change which constitutes a major modification, as defined in 40 CFR §52.21, under the new source review requirements of the FCAA, Part C (Prevention of Significant Deterioration) as amended by the FCAA Amendments of 1990, and regulations promulgated thereunder, must meet the permitting requirements of Chapter 116, Subchapter B of this title and cannot qualify for a permit by rule under this chapter.**

Huntsman Petrochemical LLC

Does not apply. The facility in this registration does not constitute a new major source or a major modification.

- (4) **Unless at least one facility at an account has been subject to public notification and comment as required in Chapter 116, Subchapter B or Subchapter D of this title (relating to New Source Review Permits or Permit Renewals), total actual emissions from all facilities permitted by rule at an account shall not exceed 250 tpy of CO or NOx; or 25 tpy of VOC or SO2 or PM; or 15 tpy of PM10; or 10 tpy of PM2.5; or 25 tpy of any other air**

contaminant except carbon dioxide, water, nitrogen, methane, ethane, hydrogen, and oxygen.

Huntsman Petrochemical LLC

Huntsman Petrochemical, LLC was subject to public notification and comment during the permitting process for Permit No. 4788.

- (5) **Construction or modification of a facility commenced on or after the effective date of a revision of this section or the effective date of a revision to a specific permit by rule in this chapter must meet the revised requirements to qualify for a permit by rule.**

Huntsman Petrochemical LLC

The proposed project occurs on or after the effective date of the relevant permits by rule.

- (6) **A facility shall comply with all applicable provisions of the FCAA, §111 (Federal New Source Performance Standards) and §112 (Hazardous Air Pollutants), and the new source review requirements of the FCAA, Part C and Part D and regulations promulgated thereunder.**

Huntsman Petrochemical LLC

The facility will comply with all applicable provisions of the FCAA.

- (7) **There are no permits under the same commission account number that contain a condition or conditions precluding the use of a permit by rule under this chapter.**

Huntsman Petrochemical LLC

There are no permit conditions for this site that preclude the use of a permit by rule under this chapter.

- (8) **The proposed facility or group of facilities shall obtain allowances for NOx if they are subject to Chapter 101, Subchapter H, Division 3 of this title (relating to Mass Emissions Cap and Trade Program).**

Huntsman Petrochemical LLC

There are no facilities in this registration subject to Chapter 101, Subchapter H, Division 3.

- (b) **No person shall circumvent by artificial limitations the requirements of §116.110 of this title (relating to Applicability).**

Huntsman Petrochemical LLC

No artificial limitations are employed to circumvent permit requirements.

- (c) **The emissions from the facility shall comply with all rules and regulations of the commission and with the intent of the Texas Clean Air Act (TCAA), including protection of health and property of the public, and all emissions control equipment shall be maintained in good condition and operated properly during operation of the facility.**

Huntsman Petrochemical LLC

The facilities will comply with all rules and regulations of the TCEQ and with the intent of the TCAA.

- (d) **Facilities permitted by rule under this chapter are not exempted from any permits or registrations required by local air pollution control agencies. Any such requirements must be in accordance with TCAA, §382.113 and any other applicable law.**

Huntsman Petrochemical LLC

Huntsman Petrochemical LLC will adhere to any applicable requirements and laws.

§106.6. Registration of Emissions. (Effective December 11, 2002)

- (a) **An owner or operator may certify and register the maximum emission rates from facilities permitted by rule under this chapter in order to establish enforceable allowable emission rates which are below the emission limitations in §106.4 of this title (relating to Requirements for Permitting by Rule).**

Huntsman Petrochemical LLC

Huntsman Petrochemical LLC is certifying and registering the maximum emission rates from the facilities under this permit by rule registration.

- (b) **All representations with regard to construction plans, operating procedures, and maximum emission rates in any certified registration under this section become conditions upon which the facility permitted by rule shall be constructed and operated.**

Huntsman Petrochemical LLC

Huntsman Petrochemical LLC understands that all representations are conditions upon which the exempt facilities shall be constructed and operated.

- (c) **It shall be unlawful for any person to vary from such representation if the change will cause a change in the method of control of emissions, the character of the emissions, or will result in an increase in the discharge of the various emissions, unless the certified registration is first revised.**

Huntsman Petrochemical LLC

Huntsman Petrochemical LLC will not vary from such representations if the change will cause a change in the method of control of emissions, the character of the emissions, or will result in an increase in the discharge of the various emissions, unless the certified registration is first revised.

- (d) **The certified registration must include documentation of the basis of emission estimates and a written statement by the registrant certifying that the maximum emission rates listed on the registration reflect the reasonably anticipated maximums for operation of the facility.**

Huntsman Petrochemical LLC

This certified registration includes documentation of the basis of emission estimates. Huntsman Petrochemical LLC certifies that the maximum emission rates listed on the registration reflect the reasonably anticipated maximums for operation of the facilities.

- (e) **Certified registrations used to demonstrate that Chapter 122 of this title (relating to Federal Operating Permits) does not apply to a source shall be submitted on the required form to the executive director; to the appropriate commission regional office; and to all local air pollution control agencies having jurisdiction over the site.**
- (1) **Certified registrations established prior to the effective date of this rule shall be submitted on or before February 3, 2003.**
- (2) **Certified registrations established on or after the effective date of this rule shall be submitted no later than the date of operation.**

Huntsman Petrochemical LLC

This certified registration is not being used to demonstrate that Chapter 122 of this title does not apply.

- (f) All certified registrations shall be maintained on-site and be provided immediately upon request by representatives of the commission or any local air pollution control agency having jurisdiction over the site. If however, the site normally operates unattended, certified registrations and records demonstrating compliance with the certified registration must be maintained at an office within Texas having day-to-day operational control of the site. Upon request, the commission shall make any such records of compliance available to the public in a timely manner.

Huntsman Petrochemical LLC

A copy of this certified registration will be kept on site and will be provided immediately upon request by representatives of the commission or any local air pollution control agency having jurisdiction over the site.

- (g) Copies of certified registrations shall be included in permit applications subject to review under Chapter 116, Subchapter B of this title (relating to New Source Review Permits).

Huntsman Petrochemical LLC

A copy of this certified registration will be included in permit applications subject to review under Chapter 116, Subchapter B.

§106.8. Recordkeeping. (Effective November 1, 2001)

- (a) Owners or operators of facilities and sources that are de minimis as designated in §116.119 of this title (relating to De Minimis Facilities or Sources) are not subject to this section.

Huntsman Petrochemical LLC

Does not apply. The facility included in this permit by rule is not de minimis, as designated in §116.119 of this title.

- (b) Owners or operators of facilities operating under a permit by rule (PBR) in Subchapter C of this chapter (relating to Domestic and Comfort Heating and Cooling) or under those PBRs that only name the type of facility and impose no other conditions in the PBR itself do not need to comply with specific recordkeeping requirements of subsection (c) of this section. A list of these PBRs will be available through the commission's Austin central office, regional offices, and the commission's website. Upon request from the commission or any air pollution control program having jurisdiction, claimants must provide information that would demonstrate compliance with §106.4 of this title (relating

to Requirements for Permitting by Rule), or the general requirements, if any, in effect at the time of the claim, and the PBR under which the facility is authorized.

Huntsman Petrochemical LLC

Does not apply. This registration does not involve a permit by rule in 30 TAC Chapter 106, Subchapter C, or one that only names the type of facility and imposes no other conditions in the permit by rule. Huntsman Petrochemical LLC will comply with the recordkeeping requirements in §106.8(c) below.

- (c) Owners or operators of all other facilities authorized to be constructed and operate under a PBR must retain records as follows:**
- (1) maintain a copy of each PBR and the applicable general conditions of §106.4 of this title or the general requirements, if any, in effect at the time of the claim under which the facility is operating. The PBR and general requirements claimed should be the version in effect at the time of construction or installation or changes to an existing facility, whichever is most recent. The PBR holder may elect to comply with a more recent version of the applicable PBR and general requirements;**

Huntsman Petrochemical LLC

A copy of this PBR and the current general conditions of §106.4 will be maintained.

- (2) maintain records containing sufficient information to demonstrate compliance with the following:**
- (A) all applicable general requirements of §106.4 of this title or the general requirements, if any, in effect at the time of the claim; and**
- (B) all applicable PBR conditions;**

Huntsman Petrochemical LLC

Records containing sufficient information to demonstrate compliance with the items referenced above will be maintained.

- (3) keep all required records at the facility site. If however, the facility normally operates unattended, records must be maintained at an office within Texas having day-to-day operational control of the plant site;**

Huntsman Petrochemical LLC

Records will be kept on site at the Conroe Plant.

- (4) make the records available in a reviewable format at the request of personnel from the commission or any air pollution control program having jurisdiction;**

Huntsman Petrochemical LLC

The records will be made available in a reviewable format at the request of personnel from the commission or any air pollution control program having jurisdiction.

- (5) beginning April 1, 2002, keep records to support a compliance demonstration for any consecutive 12-month period. Unless specifically required by a PBR, records regarding the quantity of air contaminants emitted by a facility to demonstrate compliance with §106.4 of this title prior to April 1, 2002 are not required under this section; and**

Huntsman Petrochemical LLC

Records to support a compliance demonstration for any consecutive 12-month period will be kept.

- (6) for facilities located at sites designated as major in accordance with §122.10(13) of this title (relating to General Definitions) or subject to or potentially subject to any applicable federal requirement, retain all records demonstrating compliance for at least five years. For facilities located at all other sites, all records demonstrating compliance must be retained for at least two years. These record retention requirements supercede any retention conditions of an individual PBR.**

Huntsman Petrochemical LLC

Records demonstrating compliance will be retained for at least five years.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
PERMIT BY RULE CONSIDERATIONS
REGULATION 106.50
SUBCHAPTER B - REGISTRATION FEES FOR NEW PERMITS BY RULE

§106.50. Registration Fees for Permits by Rule. (Effective June 30, 2004)

- (a) A registrant who submits a permit by rule (PBR) registration for review by the commission shall remit one of the following fees with the PI-7 registration form:
 - (1) \$100 for:
 - (A) small businesses, as defined in Texas Government Code, §2006.001; and
 - (B) non-profit organizations and
 - (C) municipalities, counties, and independent school districts with populations or districts of 10,000 or fewer residents, according to the most recently published census; or
 - (2) \$450 for all other entities.
- (b) This fee does not apply to:
 - (1) a certification submitted solely for the purpose of establishing a federally enforceable emissions limit under §106.6 of this title (relating to Registration of Emissions);
 - (2) a remediation project conducted under §106.533 of this title (relating to Water and Soil Remediation); or
 - (3) resubmittal of previously reviewed registrations, if received within 6 months of a written response on the original action.
- (c) This fee is for PBR registrations that are received on or after November 1, 2002.
- (d) All PBR fees will be remitted in the form of a check, certified check, electronic funds transfer, or money order made payable to the Texas Commission on Environmental Quality (TCEQ) and submitted concurrently with the registration to the TCEQ, P.O. Box 13088, MC 214, Austin, Texas 78711-3087. No fees will be refunded.

Huntsman Petrochemical LLC

The required fee of \$450 is being submitted concurrently with the certified registration.

ATTACHMENT V.6

SPECIFIC REQUIREMENTS

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
PERMIT BY RULE CONSIDERATIONS
REGULATION 106.261

§106.261. Facilities (Emission Limitations). (Effective November 1, 2003)

- (a) Except as specified under subsection (b) of this section, facilities, or physical or operational changes to a facility, are permitted by rule provided that all of the following conditions of this section are satisfied.
- (1) The facilities or changes shall be located at least 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located.

Huntsman Petrochemical LLC

The fugitive components in this project are located more than 100 feet from any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located.

- (2) Total new or increased emissions, including fugitives, shall not exceed 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials: acetylene, argon, butane, crude oil, refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene, carbon monoxide, cyclohexane, cyclohexene, cyclopentane, ethyl acetate, ethanol, ethyl ether, ethylene, fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116, helium, isohexane, isopropyl alcohol, methyl acetylene, methyl chloroform, methyl cyclohexane, neon, nonane, oxides of nitrogen, propane, propyl alcohol, propylene, propyl ether, sulfur dioxide, alumina, calcium carbonate, calcium silicate, cellulose fiber, cement dust, emery dust, glycerin mist, gypsum, iron oxide dust, kaolin, limestone, magnesite, marble, pentaerythritol, plaster of paris, silicon, silicon carbide, starch, sucrose, zinc stearate, or zinc oxide.

Huntsman Petrochemical LLC

The proposed emissions from this project are less than the applicable limits. Emissions from chemicals in the approved chemicals list that are listed above will not exceed 6 lb/hr.

- (3) **Total new or increased emissions, including fugitives, shall not exceed 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m³) as listed and referenced in Table 262 of §106.262 of this title (relating to Facilities (Emission and Distance Limitations)) or of any other chemical not listed or referenced in Table 262. Emissions of a chemical with a limit value of less than 200 mg/m³ are not allowed under this section.**

Huntsman Petrochemical LLC

The proposed emissions from this project are less than the applicable limits. Emissions from chemicals in the approved chemicals list having a limit value greater than 200 mg/m³ or not listed or referenced in Table 262 will not exceed 1.0 lb/hr. Chemicals in the approved chemicals list with a limit value of less than 200 mg/m³ will be authorized under §106.262.

- (4) **For physical changes or modifications to existing facilities, there shall be no changes to or additions of any air pollution abatement equipment.**

Huntsman Petrochemical LLC

There will be no changes to or addition of any air pollution abatement equipment associated with this application.

- (5) **Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.**

Huntsman Petrochemical LLC

Any visible emissions to the atmosphere associated with this project will not exceed 5.0% opacity in any six-minute period.

- (6) **For emission increases of five tons per year or greater, notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any.**

Huntsman Petrochemical LLC

Emissions associated with this permit by rule registration are less than 5 tons/yr.

- (7) **For emission increases of less than five tons per year, notification must be provided using either:**

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- (A) Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any; or**
- (B) Form PI-7 by March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year. This annual notification shall include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any.**

Huntsman Petrochemical LLC

The proposed emissions increase is less than 5 tons/yr. A Form PI-7-CERT and the additional required information are provided along with this registration.

(b) The following are not authorized under this section:

- (1) Construction of a facility authorized in another section of this chapter or for which a standard permit is in effect; and**
- (2) Any change to any facility authorized under another section of this chapter or authorized under a standard permit.**

Huntsman Petrochemical LLC

Construction of a facility or changes to a facility authorized under another section of this chapter or authorized under a standard permit is not requested in this permit by rule registration.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
PERMIT BY RULE CONSIDERATIONS
REGULATION 106.262

§106.262. Facilities (Emission and Distance Limitations). (Effective November 1, 2003)

- (a) Facilities, or physical or operational changes to a facility, are permitted by rule provided that all of the following conditions of this section are satisfied.
- (1) Emission points associated with the facilities or changes shall be located at least 100 feet from any off-plant receptor. Off-plant receptor means any recreational area or residence or other structure not occupied or used solely by the owner or operator of the facilities or the owner of the property upon which the facilities are located.

Huntsman Petrochemical LLC

The fugitive components in this project are located more than 100 feet from the nearest off-plant receptor.

- (2) New or increased emissions, including fugitives, of chemicals shall not be emitted in a quantity greater than five tons per year nor in a quantity greater than E as determined using the equation $E = L/K$ and the following table.

<u>D, Feet</u>	<u>K</u>	
100	326	E = maximum allowable hourly emission, and never to exceed 6 pounds per hour.
200	200	
300	139	
400	104	
500	81	L = value as listed or referenced in Table 262
600	65	
700	54	
800	46	K = value from the table on this page. (interpolate intermediate values)
900	39	
1,000	34	
2,000	14	D = distance to the nearest off-plant receptor.
3,000 or more	8	

TABLE 262
LIMIT VALUES (L) FOR USE WITH EXEMPTIONS FROM PERMITTING §106.262

The values are not to be interpreted as acceptable health effects values relative to the issuance of any permits under Chapter 116 of this title (relating to Control of Air Pollution by Permits for New Construction or Modification).

<u>Compound</u>	<u>Limit (L)</u> <u>Milligrams Per Cubic Meter</u>
Acetone	590.
Acetaldehyde	9.
Acetone Cyanohydrin	4.
Acetonitrile	34.
Acetylene	2662.
N-Amyl Acetate	2.7
Sec-Amyl Acetate	1.1
Benzene	3.
Beryllium and Compounds	0.0005
Boron Trifluoride, as HF	0.5
Butyl Alcohol, -	76.
Butyl Acrylate	19.
Butyl Chromate	0.01
Butyl Glycidyl Ether	30.
Butyl Mercaptan	0.3
Butyraldehyde	1.4
Butyric Acid	1.8
Butyronitrile	22.
Carbon Tetrachloride	12.
Chloroform	10.
Chlorophenol	0.2
Chloroprene	3.6
Chromic Acid	0.01
Chromium Metal, Chromium II and III Compounds	0.1
Chromium VI Compounds	0.01
Coal Tar Pitch Volatiles	0.1
Creosote	0.1
Cresol	0.5
Cumene	50.
Dicyclopentadiene	3.1
Diethylaminoethanol	5.5

<u>Compound</u>	<u>Limit (L)</u> <u>Milligrams Per Cubic Meter</u>
Diisobutyl Ketone	63.9
Dimethyl Aniline	6.4
Dioxane	3.6
Dipropylamine	8.4
Ethyl Acrylate	0.5
Ethylene Dibromide	0.38
Ethylene Glycol	26.
Ethylene Glycol Dinitrate	0.1
Ethylidene-2-norbornene, 5-	7.
Ethyl Mercaptan	0.08
Ethyl Sulfide	1.6
Glycolonitrile	5.
Halothane	16
Heptane	350.
Hexanediamine, 1,6-	0.32
Hydrogen Chloride	1.
Hydrogen Fluoride	0.5
Hydrogen Sulfide	1.1
Isoamyl Acetate	133.
Isoamyl Alcohol	15.
Isobutyronitrile	22.
Kepone	0.001
Kerosene	100.
Malononitrile	8.
Mesityl Oxide	40.
Methyl Acrylate	5.8
Methyl Amyl Ketone	9.4
Methyl-t-butyl ether	45.
Methyl Butyl Ketone	4.
Methyl Disulfide	2.2
Methylenebis (2-chloroaniline) (MOCA)	0.003
Methylene Chloride	26.
Methyl Isoamyl Ketone	5.6
Methyl Mercaptan	0.2
Methyl Methacrylate	34.
Methyl Propyl Ketone	530.
Methyl Sulfide	0.3
Mineral Spirits	350.

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<u>Compound</u>	<u>Limit (L)</u> <u>Milligrams Per Cubic Meter</u>
Naphtha	350.
Nickel, Inorganic Compounds	0.015
Nitroglycerine	0.1
Nitropropane	5.
Octane	350.
Parathion	0.05
Pentane	350.
Perchloroethylene	33.5
Petroleum Ether	350
Phenyl Mercaptan	0.4
Propionitrile	14.
Propyl Acetate	62.6
Propylene Oxide	20.
Propyl Mercaptan	0.23
Silica-amorphous- precipitated, silica gel	4.
Silicon Carbide	4.
Stoddard Solvent	350.
Styrene	21.
Succinonitrile	20.
Tolidine	0.02
Trichloroethylene	135.
Trimethylamine	0.1
Valeric Acid	0.34
Vinyl Acetate	15.
Vinyl Chloride	2.

NOTE: The time weighted average (TWA) Threshold Limit Value (TLV) published by the American Conference of Governmental Industrial Hygienists (ACGIH), in its TLVs and BEIs guide (1997 Edition) shall be used for compounds not included in the table. The Short Term Exposure Level (STEL) or Ceiling Limit (annotated with a "C") published by the ACGIH shall be used for compounds that do not have a published TWA TLV. This section cannot be used if the compound is not listed in the table or does not have a published TWA TLV, STEL, or Ceiling Limit in the ACGIH TLVs and BEIs guide.

Huntsman Petrochemical LLC

New or increased emissions from this project do not exceed 5 tons/yr of VOC. New and increased hourly emissions of chemicals authorized under 106.262 are below the maximum allowable hourly emissions (E). K is equal to 42.5 based on 850 ft. to the nearest receptor.

Calculations and analysis can be found in the Emission Data Section and includes estimated emission rates.

- (3) Notification must be provided using Form PI-7 within ten days following the installation or modification of the facilities. The notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, D values, and a description of pollution control equipment, if any.**

Huntsman Petrochemical LLC

A Form PI-7-CERT is being provided in this permit by rule registration within ten days following the installation of the new facility. Project description information, calculations, data identifying specific chemical names, L values, and D values are included in this registration document.

- (4) The facilities in which the following chemicals will be handled shall be located at least 300 feet from the nearest property line and 600 feet from any off-plant receptor and the cumulative amount of any of the following chemicals resulting from one or more authorizations under this section (but not including permit authorizations) shall not exceed 500 pounds on the plant property and all listed chemicals shall be handled only in unheated containers operated in compliance with the United States Department of Transportation regulations (49 Code of Federal Regulations, Parts 171-178): acrolein, allyl chloride, ammonia (anhydrous), arsine, boron trifluoride, bromine, carbon disulfide, chlorine, chlorine dioxide, chlorine trifluoride, chloroacetaldehyde, chloropicrin, chloroprene, diazomethane, diborane, diglycidyl ether, dimethylhydrazine, ethyleneimine, ethyl mercaptan, fluorine, formaldehyde (anhydrous), hydrogen bromide, hydrogen chloride, hydrogen cyanide, hydrogen fluoride, hydrogen selenide, hydrogen sulfide, ketene, methylamine, methyl bromide, methyl hydrazine, methyl isocyanate, methyl mercaptan, nickel carbonyl, nitric acid, nitric oxide, nitrogen dioxide, oxygen difluoride, ozone, pentaborane, perchloromethyl mercaptan, perchloryl fluoride, phosgene, phosphine, phosphorus trichloride, selenium hexafluoride, stibine, liquified sulfur dioxide, sulfur pentafluoride, and tellurium hexafluoride. Containers of these chemicals may not be vented or opened directly to the atmosphere at any time.**

Huntsman Petrochemical LLC

Only ammonia (anhydrous) from the list above is included in this authorization. It will meet the prescribed restrictions.

- (5) For physical changes or modifications to existing facilities, there shall be no changes or additions of air pollution abatement equipment.**

Huntsman Petrochemical LLC

There will be no change or addition of air pollution abatement equipment associated with this project.

- (6) Visible emissions, except uncombined water, to the atmosphere from any point or fugitive source shall not exceed 5.0% opacity in any six-minute period.**

Huntsman Petrochemical LLC

Any visible emissions associated with this project do not exceed 5.0% opacity in any 6-minute period.

- (b) The following are not authorized under this section except as noted in subsection (c):**
- (1) Construction of a facility authorized in another section of this chapter or for which a standard permit is in effect; and**
 - (2) Any change to any facility authorized under another section of this chapter or authorized under a standard permit.**
- (c) If a facility has been authorized under another section of this chapter or under a standard permit, subsection (a)(2) and (3) of this section may be used to qualify the use of other chemicals at the facility.**

Huntsman Petrochemical LLC

This permit by rule registration is for the authorization of additional fugitive components. The fugitive components will be in contact with various chemicals, which are authorized under either 106.261 or 106.262.