

Bryan W. Shaw, Ph.D., P.E., *Chairman*  
Toby Baker, *Commissioner*  
Zak Covar, *Commissioner*  
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY  
*Protecting Texas by Reducing and Preventing Pollution*

January 14, 2015

MR KEVIN BURKE  
PLANT MANAGER  
INVISTA SARL  
PO BOX 2626  
VICTORIA TX 77902-2626

RECEIVED

FEB 02 2015

TCEQ  
CENTRAL FILE ROOM

Permit by Rule Registration Number: 119129  
INVISTA S.a r.l.  
Victoria Plant  
Victoria, Victoria County  
Regulated Entity Number: RN102663671  
Customer Reference Number: CN602582231  
Account Number: VC-0008-Q  
Affected Permit: 23271, O-1902  
Install Fugitive Components in the Hexamethylene Diamine (HMD) Unit

This is in response to your certification Form PI-7 CERT regarding the Victoria Plant located at 2695 Old Bloomington Rd N, Victoria, Victoria County. INVISTA S.a r.l. has certified the fugitive emission increases under Title 30 Texas Administrative Code (TAC) §§ 106.261 and 106.262. For rule information see:  
[www.tceq.texas.gov/permitting/air/nav/numerical\\_index.html](http://www.tceq.texas.gov/permitting/air/nav/numerical_index.html)

As referenced in 30 TAC § 116.116(d)(2), all changes authorized under Chapter 106 to a permitted facility shall be incorporated into the NSR Permit No. 23271 when it is amended or renewed. The company is also reminded that these facilities may be subject to and must comply with other state and federal air quality requirements.

If you need further information or have questions, please contact Mr. John Gott, P.E. at (512) 239-1238 or write to the Texas Commission on Environmental Quality (TCEQ), Office of Air, Air Permits Division, MC-163, P.O. Box 13087, Austin, Texas 78711-3087.

This action is taken under the authority delegated by the Executive Director of the TCEQ.

Sincerely,

A handwritten signature in black ink that reads "Dominic Ruggeri".

Dominic Ruggeri, P.E., Manager  
Rule Registrations Section  
Air Permits Division

cc: Air Section Manager, Region 14 - Corpus Christi

Project Number: 223990

Emission Sources - Certified Increased Emission Rates

Registration Number 119129

This table lists the certified increased 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.

EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NOx		CO		PM <sub>10</sub>		PM <sub>2.5</sub>		SO <sub>2</sub>		Other		
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	
04FUG / Additional fugitives from breather pot		0.05	0.23													
<b>TOTAL EMISSIONS :</b>		0.05	0.23													
<b>MAXIMUM OPERATING SCHEDULE:</b>		<b>Hours/Day</b>		24		<b>Days/Week</b>		7		<b>Weeks/Year</b>		52		<b>Hours/Year</b>		8760

# TECHNICAL REVIEW: AIR PERMIT BY RULE

<b>Permit No.:</b>	119129	<b>Company Name:</b>	INVISTA S.a.r.l.	<b>APD Reviewer:</b>	Mr. John Gott, P.E.
<b>Project No.:</b>	223990	<b>Unit Name:</b>	Victoria Plant	<b>PBR No(s):</b>	106.261, 106.262

GENERAL INFORMATION			
<b>Regulated Entity No.:</b>	RN102663671	<b>Project Type:</b>	Permit by Rule Application
<b>Customer Reference No.:</b>	CN602582231	<b>Date Received by TCEQ:</b>	December 12, 2014
<b>Account No.:</b>	VC-0008-Q	<b>Date Received by Reviewer:</b>	December 23, 2014
<b>City/County:</b>	Victoria, Victoria County	<b>Physical Location:</b>	2695 Old Bloomington Rd N

CONTACT INFORMATION					
<b>Responsible Official/ Primary Contact Name and Title:</b>	Kevin Burke Plant Manager	<b>Phone No.:</b>	(361) 572-1201	<b>Email :</b>	KEVIN.BURKE@INVISTA.COM
		<b>Fax No.:</b>	(361) 571-1515		
<b>Technical Contact/ Consultant Name and Title:</b>	Jenna Timtiman Environmental Engineer	<b>Phone No.:</b>	(361) 572-1750	<b>Email :</b>	JENNA.TIMTIMAN@INVISTA.COM
		<b>Fax No.:</b>	(361) 572-1515		

GENERAL RULES CHECK	YES	NO	COMMENTS
Is confidential information included in the application?		X	
Are there affected NSR or Title V permits for the project?	X		NSR 23271, O-1902
Is each PBR > 25/250 tpy?		X	
Are PBR sitewide emissions > 25/250 tpy?	N/A	N/A	Site has been to public notice.
Are there permit limits on using PBRs at the site?		X	
Is PSD or Nonattainment netting required?		X	
Do NSPS, NESHAP, or MACT standards apply to this registration?		X	
Does NOx Cap and Trade apply to this registration?		X	
Is the facility in compliance with all other applicable rules and regulations?	X		

DESCRIBE OVERALL PROCESS AT THE SITE
INVISTA S.A R.L. owns and operates the Victoria Plant located at 2695 Old Bloomington Road N in Victoria, Victoria County.

DESCRIBE PROJECT AND INVOLVED PROCESS
<p>The company is claiming certified PBR 106.261 and 106.262 to authorization fugitive emissions from the refined diaminocyclohexane ( DCH) Tank (FIN 04TFX022B). A breather pot will be installed to minimize product buildup on the Tank's conservation vent (CV) in order to maintain reliability of the CV and avoid the potential of over pressuring the tank.</p> <p>The company is using SOCM1 without ethylene factors and the 28VHP LDAR program to minimize fugitive emissions.</p> <p>No upstream or downstream emission or production increase will result from this project.</p> <p>Fugitive MSS emissions claimed have a factor for maintenance built into the factor.</p>

TECHNICAL SUMMARY - DESCRIBE HOW THE PROJECT MEETS THE RULES
The company estimated the emissions, speciated the emissions and demonstrated that the emissions meet the limits of PBR 106.261/262 and 106.4.

COMMUNICATION LOG			
Date	Time	Name/Company	Subject of Communication
1/12/2014	1720	To: Ms. Jenna Timtiman	Voice message—What does DCH and HMD stand for?
1/12/2014	1720	To: Mr. David Infortunio	Voice mail- The company is adding a breather pot to minimize product buildup on the Tank's conservation vent (CV) in order to maintain reliability of the CV and avoid the potential of over pressuring the tank. Do you have any objection?
1/13/2014	0926	Fm: Ms. Jenna Timtiman	HMD is hexamethylene diamine and DCH is diaminocyclohexane.


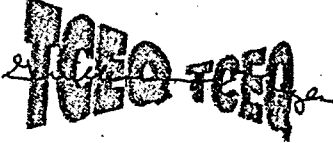
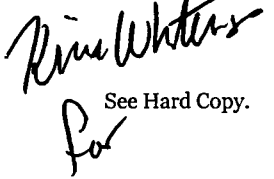
**TECHNICAL REVIEW: AIR PERMIT BY RULE**

<b>Permit No.:</b>	119129	<b>Company Name:</b>	INVISTA S.a.r.l.	<b>APD Reviewer:</b>	Mr. John Gott, P.E.
<b>Project No.:</b>	223990	<b>Unit Name:</b>	Victoria Plant	<b>PBR No(s).:</b>	106.261, 106.262

<b>PBR Emission Limits Distance = 3000', K=8</b>						
Chemical	PBR Claimed	L, mg/m <sup>3</sup>	Emission Limit (E = L/K), lb/hr	Emission Limit tpy	Actual Emissions lb/hr	Actual Emissions tpy
1,2-Diaminocyclohexane	261(a)(3)		1.0	4.38	0.0510	0.223
2-Methylpenta-methylenediamine	261(a)(3)		1.0	4.38	1.57E-6	6.87E-6
2-Aminomethylcyclopentylamine	261(a)(3)		1.0	4.38	7.08E-6	3.10E-5
Hexamethylene diamine	262	0.32	0.04	0.18	3.89E-6	1.70E-5
Hexamethyleneimine	261(a)(3)		1.0	4.38	1.94E-4	8.48E-4
n-Hexylamine	261(a)(3)		1.0	4.38	4.37E-5	1.92E-4

<b>ESTIMATED EMISSIONS</b>															
EPN / Emission Source	Specific VOC or Other Pollutants	VOC		NOx		CO		PM <sub>10</sub>		PM <sub>2.5</sub>		SO <sub>2</sub>		Other	
		lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy	lbs/hr	tpy
04FUG / Additional fugitives from breather pot		0.05	0.23												
<b>TOTAL EMISSIONS :</b>		0.05	0.23												
<b>MAXIMUM OPERATING SCHEDULE:</b>		<b>Hours/Day</b>		24	<b>Days/Week</b>		7	<b>Weeks/Year</b>		52	<b>Hours/Year</b>		8760		

<b>SITE REVIEW / DISTANCE LIMIT</b>	Yes	No	Description/Outcome	Date	Reviewed by
Site Review Required?		X			
PBR Distance Limits Met?	X		The company claims that >3000' exists to nearest property line and off-property structure.	January 12, 2015	John C. Gott, P.E.

	<b>TECHNICAL REVIEWER</b>	<b>PEER REVIEWER</b>	<b>FINAL REVIEWER</b>
<b>SIGNATURE:</b>			 See Hard Copy. For
<b>PRINTED NAME:</b>	Mr. John Gott, P.E.	Mr. Guillermo Reyes, P.E.	Mr. Dominic Ruggeri, P.E., Mgr.
<b>DATE:</b>	January 13, 2015	January 13, 2015	January 14, 2015

<b>BASIS OF PROJECT POINTS</b>	<b>POINTS</b>
Base Points: 261/262	2.0
Project Complexity Description and Points:	0.5
Research and complete < 21 days.	0.5
Technical Reviewer Project Points Assessment:	3.0
Final Reviewer Project Points Confirmation:	

526190 - XPRJ  
526211 - TRV

01/12/2015 -----NSR IMS - PROJECT RECORD -----

PROJECT#: 223990    PERMIT#: 119129    STATUS: PENDING    DISP CODE: C  
RECEIVED: 12/12/2014    PROJTYPE: REVISION    AUTHTYPE: PBR    ISSUED DT: 1-14-15

RENEWAL:

PROJECT ADMIN NAME: UPDATE AND INSTALL FUGITIVE EMISSION COMPONENTS IN THE HMD UNIT  
PROJECT TECH NAME: VICTORIA PLANT-UPDATE AND INSTALL FUGITIVE EMISSION COMPONENTS IN THE HMD UNIT

3.0

Assigned Team:RULE REG SECTION

STAFF ASSIGNED TO PROJECT:

OYLER , TONI                            - REVIEWR1\_2 -                    AP INITIAL REVIEW  
GOTT , JOHN                            - REVIEW ENG -                    RR TEAM  
REYNA , DAVID                        - PEERREVIEW -                    RULE REG SECTION

CUSTOMER INFORMATION (OWNER/OPERATOR DATA)

ISSUED TO: INVISTA S.A R.L.  
COMPANY NAME: INVISTA S.a r.l.  
CUSTOMER REFERENCE NUMBER: CN602582231

REGULATED ENTITY/SITE INFORMATION

REGULATED ENTITY NUMBER: RN102663671                    ACCOUNT: VC0008Q  
PERMIT NAME: DCH STORAGE TANK AND FUGITIVE COMPONENTS

REGULATED ENTITY LOCATION: 2695 OLD BLOOMINGTON RD N  
REGION 14 - CORPUS CHRISTI    NEAR CITY: VICTORIA                    COUNTY: VICTORIA

CONTACT DATA

CONTACT NAME: MR KEVIN BURKE                    CONTACT ROLE: RESPONSIBLE OFFICIAL  
JOB TITLE: PLANT MANAGER                    ORGANIZATION: INVISTA SARL  
MAILING ADDRESS: PO BOX 2626, VICTORIA, TX, 77902-2626  
PHONE: (361) 572-1201 Ext: 0  
FAX: (361) 571-1515 Ext: 0  
EMAIL:KEVIN.BURKE@INVISTA.COM

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CONTACT NAME: MS JENNA TIMTIMAN                    CONTACT ROLE: TECHNICAL CONTACT  
JOB TITLE: ENVIRONMENTAL ENGINEER                    ORGANIZATION: INVISTA SARL  
MAILING ADDRESS: PO BOX 2626, VICTORIA, TX, 77902-2626  
PHONE: (361) 572-1750 Ext: 0  
FAX: (361) 572-1515 Ext: 0  
EMAIL:JENNA.TIMTIMAN@INVISTA.COM

**PROJECT NOTES:**

12/15/2014 DFC 12/15/14

**PERMIT NOTES:**

05/13/2014 FOLLOWING 30 TAC 116.116(D)(2), CHANGES AUTHORIZED BY THIS REGISTRATION TO PERMITTED FACILITIES SHALL BE INCORPORATED INTO NSR PERMIT NO. 23271 WHEN IT IS NEXT AMENDED OR RENEWED.

01/12/2015 PBR SHOULD BE CONSOLIDATED INTO PERMIT 23271 WHEN NEXT AMENDED OR RENEWED.

**FEE:**

Reference	Fee Receipt Number	Amount	Fee Receipt Date	Fee Payment Type
226501		450.00		ePAY

**TRACKING ELEMENTS:**

TE Name	Start Date	Complete Date
APIRT RECEIVED PROJECT (DATE)	12/12/2014	
APIRT TRANSFERRED PROJECT TO TECHNICAL STAFF (DATE)	12/15/2014	
PROJECT RECEIVED BY ENGINEER (DATE)	12/23/2014	
ENGINEER INITIAL REVIEW COMPLETED (DATE)	12/28/2014	
DEFICIENCY CYCLE	01/12/2015	01/13/2015
PEER / MANAGER REVIEW PERIOD	01/13/2015	01/15/2015
CENTRAL REGISTRY UPDATED		
ENHANCED ADMINISTRATIVE OR APPLICATIONS REVIEW (EAR)		

**UNIT TYPES:**Project Unit Type:Permit Unit Type:**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
ORGANIC AND INORGANIC LIQUID LOADING AND UNLOADING	106.472	05/15/2014	
FACILITIES (EMISSION LIMITATIONS)	106.261	05/15/2014	

**PROJECT ATTRIBUTES:**

Attributes	Value
CERT_PI_7	
MSS- 101.222(H)(1)	B
PROJECT POINT	3.0

Emission Sources - Maximum Allowable Emission Rates

Permit Number 23271

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
16STK-001	Hydrogen Reformer Stack	CO	14.40	63.07
		NH <sub>3</sub>	0.55	2.40
		NO <sub>x</sub>	10.80	47.30
		PM/PM <sub>10</sub>	1.30	5.71
		SO <sub>2</sub>	0.03	0.11
		VOC	0.94	4.13
16VNT-002	Amine Stripper Vent	CO	7.17	29.88
04FUG	Fugitives (5)	Boric Acid	0.01	0.01
		CO	0.01	0.01
		NH <sub>3</sub>	0.35	1.55
		VOC	9.74	42.07
04LRC-006	Railcar Loading Scrubber Emissions	VOC	2.88	0.17
04LRC-006F	Railcar Loading Uncaptured Emissions	VOC	2.88	0.17
04VNT-013	Refining System Vent	NH <sub>3</sub>	1.14	1.06
		VOC	0.35	1.55
04LTR-018	Truck Loading Scrubber Emissions	NH <sub>3</sub>	0.87	0.05
		VOC	10.43	0.50
04LTR-018F	Truck Loading Uncaptured Emissions	NH <sub>3</sub>	0.23	0.01
		VOC	2.05	0.12
04TVS-020	North DCH Tanks Breather Pot	NH <sub>3</sub>	0.01	0.01
		VOC	11.56	1.74
04TFX-021	South DCH Tank Breather Pot	VOC	1.40	0.08
04TVS-023	HMD Blend Tanks A-D Breather Pots	VOC	0.22	0.08
04TFX-025	"F" Crude DCH Tank Breather Pot	NH <sub>3</sub>	0.01	0.01
		VOC	11.56	2.86

## Emission Sources - Maximum Allowable Emission Rates

04TFX-028	"A" Refined Tank Breather Pot	VOC	0.10	0.01
04TFX-029	"B" Refined Tank Breather Pot	VOC	0.10	0.01
Combined emissions from EPNs 04TFX-028 and 04TFX-029 shall not exceed		VOC	0.16	0.02
04FLR-032	Diamine Flare (HMD Flare) (Normal Operation Only)	CO	71.13	67.40
		H <sub>2</sub> S	0.19	0.01
		NH <sub>3</sub>	16.09	29.64
		NO <sub>x</sub>	13.66	16.62
		SO <sub>2</sub>	17.56	0.11
		VOC	12.25	6.53
04FLR-032	Diamine Flare (HMD Flare) (Maintenance, Startup, and Shutdown [MSS] Activities Only)	CO	12.03	0.32
		NH <sub>3</sub>	1.16	0.01
		NO <sub>x</sub>	3.36	0.09
		VOC	24.35	0.66
04TVS-033	Co-Product Storage Tanks A - E Breather Pot	VOC	13.41	0.73
04TVS-034	Crude HMD Tanks A and B	NH <sub>3</sub>	3.53	16.62
		VOC	1.18	2.29
04CWA-035	Cooling Basin (5)	NH <sub>3</sub>	0.34	1.49
		VOC	1.79	7.86
04TFX-508	HMD Permeate Tank	NH <sub>3</sub>	0.16	0.09
		VOC	0.01	0.01
04TFX-506	Aqueous Waste Tank	NH <sub>3</sub>	0.97	0.01
		VOC	0.01	0.01
04LBA-006A	Barge Loading	VOC	0.06	0.09
04LBA-006F	Barge Loading Uncaptured Emissions	VOC	0.06	0.09
16TFX006	MDEA Tank	VOC	0.16	0.01
16TFX005	Dilute MDEA Tank	VOC	0.13	0.01
04LDR022C	Drum Loading of Crude HMI	NH <sub>3</sub>	0.11	0.01
		VOC	0.10	0.01
04DGR001	HMD Maintenance Degreaser Area	VOC	0.36	0.33

## Emission Sources - Maximum Allowable Emission Rates

16VNT-004	Hydrogen Plant Vent (MSS)	CO	466.88	10.55
		VOC	106.54	3.41
04VNT-007	Synthesis Process Vent	NH <sub>3</sub>	0.02	0.01
		VOC	0.01	0.01
04VNT-007	Synthesis Process Vent (MSS)	NH <sub>3</sub>	6.75	0.01
		VOC	0.02	0.01
04VNT-009	Refining Process Vent (MSS)	NH <sub>3</sub>	0.38	0.01
		VOC	0.01	0.01
04VNT-010	Foeshots Column Vent (MSS)	NH <sub>3</sub>	1.32	0.09
		VOC	0.37	0.03
04TANKOPEN	Tank Depressure (MSS)	NH <sub>3</sub>	6.31	0.01
		VOC	2.24	0.02
04FUG-MSS	Fugitive Emissions (MSS) (5)	NH <sub>3</sub>	2.87	0.09
		PM/PM <sub>10</sub>	0.20	0.01
		VOC	17.84	1.35
04SWT-002	Flushing N112 Unloading Line to Sump	VOC	0.01	0.01
11LTR067AF	WOTL Uncaptured Emissions	VOC	0.47	0.01
10LRC-074F	ADN LBW Loading Uncaptured Emissions	NH <sub>3</sub>	0.01	0.01
		VOC	0.28	0.26
04LDR-022D	Drum Loading Refined HMI	VOC	0.09	0.01
04LDR-036B	Drum Loading Crude MGN	VOC	0.01	0.01
04LDR-037B	Drum Loading Refined MGN	VOC	0.01	0.01
04LDR-025B	Drum Loading Crude DCH	NH <sub>3</sub>	0.01	0.01
		VOC	0.07	0.01
04LDR-020B	Drum Loading Refined DCH	VOC	0.01	0.01
04LDR-028B	Drum Loading Refined HMD	VOC	0.02	0.01
04LDR-033D	Drum Loading BHMT	VOC	0.03	0.01
04SEP-001	Oil/Sand Separator	NH <sub>3</sub>	0.36	0.11
		VOC	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)

CO	-	carbon monoxide
H <sub>2</sub> S	-	hydrogen sulfide
NH <sub>3</sub>	-	ammonia
NO <sub>x</sub>	-	total oxides of nitrogen
PM	-	particulate matter, suspended in the atmosphere, including PM <sub>10</sub>
PM <sub>10</sub>	-	particulate matter equal to or less than 10 microns in diameter
SO <sub>2</sub>	-	sulfur dioxide
VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: February 25, 2014

Company: <u>INVISTA S.A.R.L.</u>	Permit No.: <u>119129</u>	Project No.: <u>223990</u>
Date of Initial Review: <u>12/28</u> REC <u>17/23</u>		
Date of Initial Phone Call: <u>          </u>		
Have you initiated a deficiency process? Yes <input type="checkbox"/> / No <input type="checkbox"/> If yes, what date was it initiated? <u>          </u>		

ADD FUG COMPONENTS IN  
HMD Unit

106.261/106.262 speciation of all project emissions

Comments: YES

0.05 & 0.23 TPY VOC

Fugitives

Gas  Liquids  used TCEQ emission factors

Comments: SOCMI W/O E2 - 28VHP LDAR

Control Devices

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

Comments: NONE

MSS  Industry Deadline Past  Industry deadline 2012  Industry deadline 2013

Description of activity, duration, and frequency  Emissions character/quantification

Comments: IN FUG FACTORS

Affected NSR Permit?  Yes  No If yes, Permit No #: Permit. 23271

Upstream/Downstream effects addressed  Yes  No  NA

Old actual to New Potential  Yes  No  NA

ADD BREATHER POT ON REFINED DCH TANK (FIN 04TFK0ZZB)  
EPN 04FUG

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

**DEC 12 2014  
APIRT**

The TCEQ **requires** that a complete Core Data Form bearing an original signature be submitted on all incoming applications unless a Regulated Entity and Customer Reference Number have been issued by the TCEQ and no core data information has changed. For more information regarding the Core Data Form, call (512) 239-5175 or go to the TCEQ Web site at [www.tceq.texas.gov/permitting/central\\_registry/guidance.html](http://www.tceq.texas.gov/permitting/central_registry/guidance.html).

<b>I. Registrant Information</b>		
A. Company or Other Legal Customer Name: INVISTA S.à. r.l.		
B. Company Official Contact Information ( <input checked="" type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input type="checkbox"/> Ms. <input type="checkbox"/> Other _____ )		
Name: Kevin Burke		Title: Plant Manager
Mailing Address: P.O. Box 2626		
City: Victoria	State: TX	ZIP Code: 77902-2626
Phone: (361) 572-1201	Fax: (361) 571-1515	
E-mail: Kevin.Burke@invista.com		
<i>All PBR registration responses will be sent via e-mail unless a hard copy is specifically requested. The Company Official must initial here if hard copy is requested.</i>		
C. Technical Contact Information ( <input type="checkbox"/> Mr. <input type="checkbox"/> Mrs. <input checked="" type="checkbox"/> Ms. <input type="checkbox"/> Other _____ )		
Name: Jenna Timtiman		Title: Environmental Engineer
Company: INVISTA S.à. r.l.		
Mailing Address: P.O. Box 2626		
City: Victoria	State: TX	ZIP Code: 77902-2626
Phone: (361) 572-1750	Fax: (361) 572-1515	
E-mail: Jenna.Timtiman@invista.com		
<b>II. Facility and Site Information</b>		
A. Name and Type of Facility: Refined DCH Tank Breather Pot		<input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Portable
For portable units, please provide the serial number of the equipment being registered below.		
Serial No:	Serial No:	
B. Facility Location Information		
Street Address: 2695 Old Bloomington Road North		
<i>If there is no street address provide written driving directions to the site. (attach description if additional space is needed)</i>		
City: Victoria	County: Victoria	ZIP Code: 77905

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

<b>II. Facility and Site Information</b> <i>(continued)</i>	
C. Core Data Form	
Is the Core Data Form (TCEQ Form 10400) attached?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If NO, provide customer reference number (CN) and regulated entity number (RN) below.	
Customer Reference Number (CN): 602582231	
Regulated Entity Number (RN): 102663671	
D. TCEQ Account Identification Number: (if known) VC-0008-Q	
E. PBR Numbers claimed under 30 TAC § 106 (List all that apply)	
106. 261	106. 262
106.	106.
106.	106.
F. Historical Standard Exemption or PBR	
Are you claiming a historical standard exemption or PBR?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
If "YES," enter rule number(s) and effective date(s) in the spaces provided below.	
G. Previous Standard Exemption or PBR Registration Number	
Is this registration for a change to an existing facility previously authorized under a standard exemption or PBR?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If "YES," enter registration number(s), rule number(s), and effective dates in the spaces provided below.	
Reg. #119129; 106.261, 106.472; 11/1/03, 9/4/00	
H. Other Facilities at This Site Authorized by Standard Exemption or PBR	
Are there any other facilities at this site that are authorized by an Air Standard Exemption or PBR?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If YES, enter registration number(s), rule number(s), and effective dates in the spaces provided below.	
See Appendix for list of PBRs	

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

<b>II. Facility and Site Information</b> <i>(continued)</i>	
I. Other Air Preconstruction Permits	
Are there any other air preconstruction permits at this site?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If "YES," enter permit number(s) in the spaces provided below.	
See Appendix for list of permits	
J. Affected Air Preconstruction Permits	
Does the PBR claimed directly affect any permitted facility?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If YES, enter permit number(s) in the spaces provided below.	
23271	
K. Federal Operating Permit (FOP) Requirements	
Is this facility located at a site that is required to obtain a Federal Operating Permit (FOP) pursuant to 30 TAC Chapter 122?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> To Be Determined
If the site currently has an existing federal operating permit, enter the permit number:	O-1902
Check the requirements of 30 TAC Chapter 122 that will be triggered if this certification is accepted. <b>(check all that apply)</b>	
<input type="checkbox"/> Initial Application for an FOP <input type="checkbox"/> Significant Revision for an SOP <input type="checkbox"/> Minor Revision for an SOP <input type="checkbox"/> Operational Flexibility/off Permit Notification for an SOP <input type="checkbox"/> Revision for GOP <input type="checkbox"/> To be Determined <input checked="" type="checkbox"/> None	
Identify the type(s) issued and/or FOP application(s) submitted/pending for the site. <b>(check all that apply)</b>	
<input checked="" type="checkbox"/> SOP	<input type="checkbox"/> GOP <input type="checkbox"/> GOP application/revision application <i>(submitted or under APD review)</i>
<input type="checkbox"/> N/A	<input type="checkbox"/> SOP application/revision application <i>(submitted or under APD review)</i>
<b>III. Fee Information</b> <i>(See Section VII. for address to send fee or go to <a href="http://www6.tceq.texas.gov/epayto">www6.tceq.texas.gov/epayto</a> pay online.)</i>	
A. Fee Requirements	
Is a fee required per Title 30 TAC§ 106.50?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
If NO, specify the exception (check all that apply)	
1. Registration is solely to establish a federally enforceable emission limit.	<input type="checkbox"/> YES <input type="checkbox"/> NO
2. Registration is within six-months of an initial PBR review, and it is addressing deficiencies, administrative changes, or other allowed changes.	<input type="checkbox"/> YES <input type="checkbox"/> NO
3. Registration is for a Remediation project (30 TAC §106.533).	<input type="checkbox"/> YES <input type="checkbox"/> NO

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

<b>III. Fee Information</b> (See Section VII. for address to send fee or go to <a href="http://www6.tceq.texas.gov/epay">www6.tceq.texas.gov/epay</a> to pay online.) (continued)	
B. Fee Amount	
1. A \$100 fee is required if <i>any</i> of the answers in III.B.1 are YES	
This business has less than 100 employees.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
This business has less than 6 million dollars in annual gross receipts.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
This registration is submitted by a governmental entity with a population of less than 10,000.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
This registration is submitted by a non-profit organization.	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
2. A \$450 fee is required for all other registrations.	
C. Payment Information	
Is a copy of the check, voucher, or money order attached?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Check/Money Order/Transaction or Voucher Number: Voucher No. 226501	
Enter the individual or company name printed on the check: N/A	
Fee Amount Four hundred and fifty dollars	\$ 450.00
Was fee paid online?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>IV. Technical Information Including State And Federal Regulatory Requirements</b>	
<b>Place a check next to the appropriate box to indicate what you have included it in your submittal.</b>	
<b>Note:</b> Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.	
A. PBR requirements (Checklists are optional; however, your review will go faster if you provide applicable checklists.)	
Did you demonstrate that the General Requirements in 30 TAC §106.4 are met?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Did you demonstrate that the Individual Requirements of the specific PBR are met?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
B. Confidential Information (All pages properly marked "CONFIDENTIAL")	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
C. Process Flow Diagram	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
D. Process Description	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
E. Maximum Emissions Data and Calculations	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<b>Note:</b> Please be reminded that if the facilities listed in this registration are subject to the Mass Emissions Cap & Trade program under <b>30TAC Chapter 101, Subchapter H, Division 3</b> , the owner/operator of these facilities must possess NOx allowances equivalent to the actual NOx, emissions from these facilities.	

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

**IV. Technical Information Including State And Federal Regulatory Requirements**

(continued)

Place a check next to the appropriate box to indicate what you have included it in your submittal.

**Note:** Any technical or essential information needed to confirm that facilities are meeting the requirements of the PBR must be provided. Not providing key information could result in an automatic deficiency and voiding of the project.

F. Table 1(a) (Form 10153) Emission Point Summary	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
G. Distances to Property Line and Nearest Off-Property Structure	
Distance from this facility's emission release point to the nearest property line:	>3000 feet
Distance from this facility's emission release point to the nearest off-property structure:	>3000 feet
H. Project Status	
Has the company implemented the project or waiting on a response from TCEQ?	<input checked="" type="checkbox"/> Implemented <input type="checkbox"/> Waiting
I. Projected Start of Construction Date:	12/10/2014


**V. Delinquent Fees**

This form **will not be processed** until all delinquent fees and/or penalties owed to the TCEQ or the Office of the Attorney General on behalf of the TCEQ is paid in accordance with the Delinquent Fee and Penalty Protocol. For more information regarding Delinquent Fees and Penalties, go to the TCEQ Web site at: [www.tceq.texas.gov/agency/delin/index.html](http://www.tceq.texas.gov/agency/delin/index.html).

**VI. Signature For Registration And Certification**

The signature below confirms that I have knowledge of the facts included in this application and that these facts are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which this application is made will not in any way violate any provision of the Texas Water Code (TWC), Chapter 7, Texas Clean Air Act (TCAA), as amended, or any of the air quality rules and regulations of the Texas Commission on Environmental Quality or any local governmental ordinance or resolution enacted pursuant to the TCAA. I further state that I understand my signature indicates that this application meets all applicable nonattainment, prevention of significant deterioration, or major source of hazardous air pollutant permitting requirements. The signature further signifies awareness that intentionally or knowingly making or causing to be made false material statements or representations in the application is a criminal offense subject to criminal penalties.

Name (printed): Kevin Burke

Signature (original signature required): 

Date: 12/9/14

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

<b>VII. SUBMITTING COPIES OF THE CERTIFICATION AND REGISTRATION</b>		
<b>Copies must be sent as listed below: Processing delays may occur if copies are not sent as noted.</b>		
<b>Who</b>	<b>Where</b>	<b>What</b>
Air Permits Initial Review Team (APIRT)	Regular, Certified, Priority Mail MC161, P.O. Box 13087 Austin, Texas 78711-3087 Hand Delivery, Overnight Mail MC 161, 12100 Park 35 Circle, Building C, Third Floor Austin, Texas 78753	Originals Form PI-7-CERT, Core Data Form, and all attachments.
Revenue Section, TCEQ	Regular, Certified, Priority Mail MC 214, P.O. Box 13088 Austin, Texas 78711-3088 Hand Delivery, Overnight Mail MC 214, 12100 Park 35 Circle, Building A, Third Floor Austin, Texas 78753	Original Money Order or Check, Copy of Form PI-7-CERT, and Core Data Form. Not required if fee was paid using ePay <sup>1</sup> .
Appropriate TCEQ Regional Office	To find your Regional Office address, go to the TCEQ Web site at <a href="http://www.tceq.texas.gov/publications/gi/gi-002.html">www.tceq.texas.gov/publications/gi/gi-002.html</a> , or call (512) 239-1250.	Copy of Form PI-7-CERT, Core Data Form, and all attachments.
Appropriate Local Air Pollution Control Program(s)	To Find your local or Regional Air Pollution Control Programs go to the TCEQ, APD Website at <a href="http://www.tceq.texas.gov/permitting/air/local_programs.html">www.tceq.texas.gov/permitting/air/local_programs.html</a> , or call (512) 239-1250	Copy of Form PI-7-CERT, Core Data Form, and all attachments.

**Reset Form**

<sup>1</sup> ePay located at [www3.tceq.texas.gov/epay/](http://www3.tceq.texas.gov/epay/).



**INVISTA™**

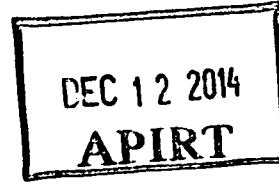
**CERTIFIED MAIL – 7012 0470 0000 6739 2949  
RETURN RECEIPT REQUESTED**

**INVISTA S.à r.l.**  
Victoria Site  
P. O. Box 2626  
Victoria, TX 77902-2626

December 9, 2014

Texas Commission on Environmental Quality  
Air Permits Initial Review Team (APIRT), MC-161  
P. O. Box 13087  
Austin, TX 78711-3087

361.572.1111  
www.invista.com



To Whom It May Concern:

Re: Permit by Rule 30 TAC §106.261 & §106.262  
INVISTA S.à r.l. - Victoria Plant  
Revisions to PBR Registration No. 119129  
Regulated Entity Number: RN102663671  
Customer Reference Number: CN602582231  
Air Account ID No. VC-0008-Q

**AIR PERMITS DIVISION**

**DEC 12 2014**

**HAND-DELIVERED**

On behalf of INVISTA S.à r.l. (INVISTA), I am submitting the enclosed non-confidential package of a revision to Permit by Rule Registration No. 119129 under §106.261 and §106.262 to update and install fugitive emission components in the HMD unit in conjunction with this project.

Form PI-7 CERT; Table 1(a); §106.4, §106.261, and §106.262 Checklists; and other supporting information are included in this certification and registration. A process flow diagram and emission rate calculations are included in the confidential package of this certification and registration. The registration fee of \$450 required by 30 TAC §106.50 has been paid electronically.

If you require additional information, please contact Jenna Timtiman at (361) 572-1750 or email [Jenna.Timtiman@invista.com](mailto:Jenna.Timtiman@invista.com).

Sincerely,

Kevin Burke  
Plant Manager

KB/jt

Attachments

cc: Mr. Kelly Ruble, Air Section Manager, TCEQ Region 14

**REQUEST FOR PERMIT BY RULE  
REGISTRATION UNDER 30 TAC §106.261 & §106.262**

**EMISSIONS FROM FUGITIVE COMPONENTS  
FOR REFINED DCH TANK BREATHER POT**

**30 TAC §106.261 & §106.262**

**INVISTA S.à r.l.  
VICTORIA PLANT**

**VICTORIA, TEXAS**

**DECEMBER 2014**

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**Appendix A TCEQ Forms**

**Appendix B Emission Compliance Demonstration**

**Appendix C Copy of Application Fee Payment**

**Appendix D Air Permits and Registrations**

# Section 1

## Introduction

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INVISTA S. à r. l. (INVISTA) owns and operates the Victoria Plant in Victoria, Victoria County, Texas. The Victoria Plant is registered under Texas Commission on Environmental Quality (TCEQ) Customer Number CN602582231 and Regulated Entity Number RN102663671.

With this submittal, INVISTA is seeking authorization for an increase in VOC emissions associated with EPN: 04FUG under Permit by Rules 30 TAC §106.261 and §106.262. Additionally, this document demonstrates that the associated emissions will comply with the requirements for a Permit by Rule as outlined in 30 TAC §106.4.

The following Texas Commission on Environmental Quality (TCEQ) forms and information required to complete this registration are provided in Appendix A:

- TCEQ Table 1a
- TCEQ Form PI-7 CERT
- TCEQ Permit By Rule §106.4 Checklist
- TCEQ Permit By Rule §106.261 Checklist
- TCEQ Permit By Rule §106.262 Checklist

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## **Section 2**

# **Permit by Rule Requirements**

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

Requirement	Response / Demonstration
(a) to qualify for a permit by rule, the following 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 (SO <sub>2</sub> ) or inhalable particulate matter (PM); or 15 tpy of particulate matter with diameters of 10 microns or less (PM <sub>10</sub> ); or 10 tpy of particulate matter with diameters of 2.5 microns or less (PM <sub>2.5</sub> ); or 25 tpy of any other air contaminant except carbon dioxide, water, nitrogen, methane, ethane, hydrogen, and oxygen.	Total actual emissions authorized under permit by rule from the facility will not exceed the limits specified in 106.4(a)(1) as demonstrated in the calculations of this registration.
(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.	N/A - This project does not constitute a new major source or major modification under the PSD program. The INVISTA Victoria Plant is located in Victoria County, which is an attainment area for all criteria pollutants. Therefore, the nonattainment rules do not apply.
(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.	N/A - This project does not constitute a major source or major modification under the PSD program.
(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 SO <sub>2</sub> or PM; or 15 tpy of PM <sub>10</sub> ; or 10 tpy of PM <sub>2.5</sub> ; or 25 tpy of any other air contaminant except carbon dioxide, water, nitrogen, methane, ethane, hydrogen, and oxygen.	N/A - The Victoria Site has been subject to public notification and comments under 30 TAC Chapter 116.
(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.	Compliance with current rule version is demonstrated in the documentation and calculations included in this registration.
(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.	PSD permitting is not applicable because these facilities are not a new major source or a major modification. Nonattainment NSR permitting is not applicable because the Victoria Plant is not located in a nonattainment area.
(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.	N/A - No permits for the Victoria Site preclude the use of permits by rule.
(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).	N/A - The Victoria Site is not in the Houston-Galveston non-attainment area and is not subject to the mass emissions cap and trade program.
(b) No person shall circumvent by artificial limitations the requirements of §116.110 of this title (relating to Applicability).	The sources will meet all the requirements of 30 TAC 106.4, 106.261, and 106.262. A Chapter 116 state permit is not required, and the requirements of §116.110 are not circumvented.
(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.	INVISTA will comply with all rules and regulations of the TCEQ and with the intent of the TCAA as they pertain to the emissions resulting from this PBR.
(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.	N/A - The Victoria Site is located in Victoria County, which does not have any local air pollution control agencies.

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

Requirement	Response / Demonstration
(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.	The facilities associated with this project are located at least 100 feet from any off-plant receptor not occupied by INVISTA.
(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.	As shown in Appendix B, total new or increased emissions, including fugitives, do not exceed 6.0 lb/hr or 10 tpy of any of the chemicals listed.
(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/m <sup>3</sup> ) 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/m <sup>3</sup> are not allowed under this section.	As shown in Appendix B, total new or increased emissions, including fugitives, do not exceed 1.0 lb/hr of chemicals having a limit value (L) greater than 200 milligrams per cubic meter (mg/m <sup>3</sup> ) as listed and referenced in Table 262 of §106.262 (Facilities (Emission and Distance Limitations)) or of any other chemical not listed or referenced in Table 262.
(4) For physical changes or modifications to existing facilities, there shall be no changes to or additions of any air pollution abatement equipment.	A breather pot will be installed as part of this project; however, its purpose is to minimize product buildup on the tank conservation vent. The breather pot is not air pollution abatement for this tank and INVISTA is not claiming any control efficiency from its use.
(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.	Visible emissions from the fugitive components 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.	The emission increases associated with this project will be less than 5 tpy. Therefore, this requirement does not apply.
(7) For emission increases of less than five tons per year, notification must be provided using either:	
(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	Notification is being provided using Form PI-7 CERT and the specified supplemental information within 10 days following the installation of new fugitive emission components.
(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.	
(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	This PBR registration does not involve the construction of or change to a facility authorized in another section of 30 TAC Chapter 106 or for which a standard permit is in effect.
(2) any change to any facility authorized under another section of this chapter or authorized under a standard permit.	

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

Requirement	Response / Demonstration
(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.	Fugitive emission components addressed in this PBR registration are located more than 100 feet from any recreational area or residence or other structure not occupied or used solely by INVISTA.
(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 Table 262.	New or increased emissions are not greater than five tons per year or greater than E as determined by $E=L/K$ . Emission estimates for the applicable air contaminants are included in Appendix B.
(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.	Notification is being provided using Form PI-7 CERT within 10 days following the installation of the fugitive emission components. This notification includes the specified information.
(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.	Not Applicable. This action is not seeking to authorize emissions for any of the listed compounds.
(5) For physical changes or modifications to existing facilities, there shall be no changes or additions of air pollution abatement equipment.	A breather pot will be installed as part of this project; however, its purpose is to minimize product buildup on the tank conservation vent. The breather pot is not air pollution abatement for this tank and INVISTA is not claiming any control efficiency from its use.
(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.	Visible emissions from the facilities associated with this project will not exceed 5.0% opacity in any six-minute period.
(b) The following are not authorized under this section except as noted in subsection (c) of this section:	
(1) construction of a facility authorized in another section of this chapter or for which a standard permit is in effect; and	This PBR registration does not involve the construction of or change to a facility authorized in another section of 30 TAC Chapter 106 or for which a standard permit is in effect.
(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.	

## Section 3

# Process Description

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The Refined DCH Tank (FIN: 04TFX022B) was put into service in May 2014. The tank vents to atmosphere and after some months of being in service, product buildup was discovered around the tank's conservation vent (CV). In order to maintain the reliability of the CV and avoid the potential of overpressuring the tank, a breather pot will be installed to minimize product buildup on the tank CV. Control efficiency from the breather pot will not be claimed since its purpose is to prevent product buildup around the CV. This submittal seeks the authorization of volatile organics compound (VOC) emissions from fugitive components through 30 TAC §106.261 & §106.262.

# Section 4

## Basis for Emission Calculations

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This section describes the air emissions associated with this project and provides the methods used in deriving the estimated emission rates.

Fugitive emissions were estimated using component counts and SOCMI-Without Ethylene emission factors from TCEQ's 28VHP Leak Detection and Repair (LDAR) Program. The EPN 04FUG air emission rates associated with this revised PBR Registration No. 119129; are listed in Table 1(a) and in the compliance demonstration table (Appendix B). The emission rates demonstrate compliance with the PBR limits.

Detailed emission calculations are provided in the confidential package of this registration.

# Appendix A

## TCEQ Forms

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### Table 1a

Form PI-7 CERT

106.4 Checklist

106. 261 Checklist

106. 262 Checklist



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Table 1(a) Emission Point Summary

<b>Date</b>	12/10/2014	<b>Permit No.:</b>	23271	<b>Regulated Entity No.:</b>	102663671
<b>Area Name:</b>	INVISTA S.a.r.l - HMD Unit			<b>Customer Reference No.:</b>	602582231

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

AIR CONTAMINANT DATA					
1. Emission Point			2. Component of Air Contaminant Name	3. Air Contaminant Emission Rate	
(A) EPN	(B) FIN	(C) NAME		Pounds per Hour (A)	TPY (B)
04FUG	04FUG	Additional fugitives from breather pot	VOC	0.05	0.23

EPN = Emission Point Number  
 FIN = Facility Identification Number



**Texas Commission on Environmental Quality**  
**Permit by Rule Applicability Checklist**  
**Title 30 Texas Administrative Code § 106.4**

The following checklist was developed by the Texas Commission on Environmental Quality (TCEQ), **Air Permits Division**, to assist applicants in determining whether or not a facility meets all of the applicable requirements. Before claiming a specific Permit by Rule (PBR), a facility must first meet all of the requirements of **Title 30 Texas Administrative Code § 106.4** (30 TAC § 106.4), "Requirements for Permitting by Rule." Only then can the applicant proceed with addressing requirements of the specific Permit by Rule being claimed.

The use of this checklist is not mandatory; however, it is the responsibility of each applicant to show how a facility being claimed under a PBR meets the general requirements of 30 TAC § 106.4 and also the specific requirements of the PBR being claimed. If all PBR requirements cannot be met, a facility will not be allowed to operate under the PBR and an application for a construction permit may be required under 30 TAC § 116.110(a).

Registration of a facility under a PBR can be performed by completing **Form PI-7** (Registration for Permits by Rule) or **Form PI-7-CERT** (Certification and Registration for Permits by Rule). The appropriate checklist should accompany the registration form. Check the most appropriate answer and include any additional information in the spaces provided. If additional space is needed, please include an extra page and reference the question number. The PBR forms, tables, checklists, and guidance documents are available from the TCEQ, Air Permits Division Web site at: [www.tceq.texas.gov/permitting/air/nav/air\\_pbr.html](http://www.tceq.texas.gov/permitting/air/nav/air_pbr.html).

<b>1. 30 TAC § 106.4(a)(1) and (4): Emission limits</b>	
List emissions in tpy for <b>each</b> facility (add additional pages or table if needed):	0.23 tpy VOC
• Are the SO <sub>2</sub> , PM <sub>10</sub> , VOC, or other air contaminant emissions claimed for <b>each</b> facility in this PBR submittal less than 25 tpy?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
• Are the NO <sub>x</sub> and CO emissions claimed for each facility in this PBR submittal less than 250 tpy?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If the answer to both is "Yes," continue to the question below. If the answer to either question is "No," a PBR cannot be claimed.</i>	
Has any facility at the property had public notice and opportunity for comment under 30 TAC Section 116 for a regular permit or permit renewal? (This does not include public notice for voluntary emission reduction permits, grandfathered existing facility permits, or federal operating permits.)	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
<i>If "Yes," skip to Section 2. If "No," continue to the questions below.</i>	
If the site has had no public notice, please answer the following:	
• Are the SO <sub>2</sub> , PM <sub>10</sub> , VOC, or other emissions claimed for <b>all</b> facilities in this PBR submittal less than 25 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
• Are the NO <sub>x</sub> and CO emissions claimed for all facilities in this PBR submittal less than 250 tpy?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If the answer to both questions is "Yes," continue to Section 2.</i>	
<i>If the answer to either question is "No," a PBR cannot be claimed. A permit will be required under Chapter 116.</i>	

**Permit by Rule Applicability Checklist  
Title 30 Texas Administrative Code § 106**

<b>2. 30 TAC § 106.4(a)(2): Nonattainment check</b>	
Are the facilities to be claimed under this PBR located in a designated ozone nonattainment county?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," please indicate which county by checking the appropriate box to the right.</i>	
(Marginal) - Hardin, Jefferson, and Orange counties:	<input type="checkbox"/> BPA
(Moderate) - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller counties:	<input type="checkbox"/> HGA
(Moderate) - Collin, Dallas, Denton, Ellis, Johnson, Kaufman, Parker, Rockwall, and Tarrant counties	<input type="checkbox"/> DFW
<i>If "Yes," to any of the above, continue to the next question. If "No," continue to Section 3.</i>	
Does this project trigger a nonattainment review?	<input type="checkbox"/> YES <input type="checkbox"/> NO
Does this project trigger a nonattainment review?	
Is the project's potential to emit (PTE) for emissions of VOC or NO <sub>x</sub> increasing by 100 tpy or more? <i>PTE is the maximum capacity of a stationary source to emit any air pollutant under its worst-case physical and operational design unless limited by a permit, rules, or made federally enforceable by a certification.</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO
Is the site an existing major nonattainment site and are the emissions of VOC or NO <sub>x</sub> increasing by 40 tpy or more?	<input type="checkbox"/> YES <input type="checkbox"/> NO
<i>If needed, attach contemporaneous netting calculations per nonattainment guidance.</i>	
Additional information can be found at: <a href="http://www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html">www.tceq.texas.gov/permitting/air/forms/newsourcereview/tables/nsr_table8.html</a> and <a href="http://www.tceq.texas.gov/permitting/air/nav/air_docs_newsourcel.html">www.tceq.texas.gov/permitting/air/nav/air_docs_newsourcel.html</a>	
<i>If "Yes," to any of the above, the project is a major source or a major modification and a PBR may not be used. A Nonattainment Permit review must be completed to authorize this project. If "No," continue to Section 3.</i>	
<b>3. 30 TAC § 106.4(a)(3): Prevention of Significant Deterioration (PSD) check</b>	
Does this project trigger a review under PSD rules?	
To determine the answer, review the information below:	
Are emissions of any regulated criteria pollutant increasing by 100 tpy of any criteria pollutant at a named source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Are emissions of any criteria pollutant increasing by 250 tpy of any criteria pollutant at an unnamed source?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Are emissions increasing above significance levels at an existing major site?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
PSD information can be found at: <a href="http://www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf">www.tceq.texas.gov/assets/public/permitting/air/Forms/NewSourceReview/Tables/10173tbl.pdf</a> and <a href="http://www.tceq.texas.gov/permitting/air/nav/air_docs_newsourcel.html">www.tceq.texas.gov/permitting/air/nav/air_docs_newsourcel.html</a>	
<i>If "Yes," to any of the above, a PBR may not be used. A PSD Permit review must be completed to authorize the project. If "No," continue to Section 4.</i>	

**Permit by Rule Applicability Checklist  
Title 30 Texas Administrative Code § 106**

<b>4. 30 TAC § 106.4(a)(6): Federal Requirements</b>	
§ Will all facilities under this PBR meet applicable requirements of Title 40 Code of Federal Regulations (40 CFR) Part 60, New Source Performance Standards (NSPS)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<i>If "Yes," which Subparts are applicable?</i>	
• Will all facilities under this PBR meet applicable requirements of 40 CFR Part 63, Hazardous Air Pollutants Maximum Achievable Control Technology (MACT) standards?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<i>If "Yes," which Subparts are applicable?</i>	
• Will all facilities under this PBR meet applicable requirements of 40 CFR Part 61, National Emissions Standards for Hazardous Air Pollutants (NESHAPs)?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA
<i>If "Yes," which Subparts are applicable?</i>	
<i>If "Yes" to any of the above, please attach a discussion of how the facilities will meet any applicable standards.</i>	
<b>5. 30 TAC § 106.4(a)(7): PBR prohibition check</b>	
• Are there any air permits at the site containing conditions which prohibit or restrict the use of PBRs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," PBRs may not be used or their use must meet the restrictions of the permit. A new permit or permit amendment may be required.</i>	
<i>List permit number(s):</i>	
<b>6. 30 TAC § 106.4(a)(8): NO<sub>x</sub> Cap and Trade</b>	
• Is the facility located in Harris, Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
<i>If "Yes," answer the question below. If "No," continue to Section 7.</i>	
• Will the proposed facility or group of facilities obtain required allowances for NO <sub>x</sub> if they are subject to 30 TAC Chapter 101, Subchapter H, Division 3 (relating to the Mass Emissions Cap and Trade Program)?	<input type="checkbox"/> YES <input type="checkbox"/> NO

**Permit by Rule Applicability Checklist  
Title 30 Texas Administrative Code § 106**

<b>7. Highly Reactive Volatile Organic Compounds (HRVOC) check</b>		
• Is the facility located in Harris County?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," skip to the box below.</i>		
• Will the project be constructed after June 1, 2006?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," skip to the box below.</i>		
• Will one or more of the following HRVOC be emitted as a part of this project?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," complete the information below:</i>		
	lb/hr	tpy
▶ 1,3-butadiene		
▶ all isomers of butene (e.g., isobutene [2-methylpropene or isobutylene])		
▶ alpha-butylene (ethylethylene)		
▶ beta-butylene (dimethylethylene, including both cis- and trans-isomers)		
▶ ethylene		
▶ propylene		
• Is the facility located in Brazoria, Chambers, Fort Bend, Galveston, Liberty, Montgomery, or Waller County?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," the checklist is complete.</i>		
• Will the project be constructed after June 1, 2006?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," answer the next question. If "No," the checklist is complete.</i>		
• Will one or more of the following HRVOC be emitted as a part of this project?	<input type="checkbox"/> YES <input type="checkbox"/> NO	
<i>If "Yes," complete the information below:</i>		
	lb/hr	tpy
▶ ethylene		
▶ propylene		

**Save Form**

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**Title 30 Texas Administrative Code § 106.261  
Permit By Rule (PBR) Checklist  
Facilities (Emission Limitations)**

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.261 (30 TAC § 106.261) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists, and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ) Air Permits Division website at, [www.tceq.texas.gov/permitting/air/air\\_permits.html](http://www.tceq.texas.gov/permitting/air/air_permits.html)

For additional assistance with your application, including resources to help calculate your emissions, please visit the Small Business and Local Government Assistance (SBLGA) webpage at the following link: [www.TexasEnviroHelp.org](http://www.TexasEnviroHelp.org)

<b>Check The Most Appropriate Answer</b>			
	Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> NA		
b1	Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>		
b2	Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard permit? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>		
a1	Are facilities or changes 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? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA		
a2	Are total new or increased emissions, including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year of the following materials <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA		
<b>Check All That Apply</b>			
<input type="checkbox"/> acetylene	<input type="checkbox"/> cyclopentane	<input type="checkbox"/> kaolin	<input type="checkbox"/> propane
<input type="checkbox"/> alumina	<input type="checkbox"/> emery dust	<input type="checkbox"/> limestone	<input type="checkbox"/> propyl alcohol
<input type="checkbox"/> argon	<input type="checkbox"/> ethanol	<input type="checkbox"/> magnesite	<input type="checkbox"/> propyl ether
<input type="checkbox"/> butane	<input type="checkbox"/> ethyl acetate	<input type="checkbox"/> marble	<input type="checkbox"/> propylene
<input type="checkbox"/> calcium carbonate	<input type="checkbox"/> ethyl ether	<input type="checkbox"/> methyl acetylene	<input type="checkbox"/> silicon
<input type="checkbox"/> calcium silicate	<input type="checkbox"/> ethylene	<input type="checkbox"/> methyl chloroform	<input type="checkbox"/> silicon carbide
<input type="checkbox"/> carbon monoxide	<input type="checkbox"/> glycerin mist	<input type="checkbox"/> methyl cyclohexane	<input type="checkbox"/> starch
<input type="checkbox"/> cellulose fiber	<input type="checkbox"/> gypsum	<input type="checkbox"/> neon	<input type="checkbox"/> sucrose
<input type="checkbox"/> cement dust	<input type="checkbox"/> helium	<input type="checkbox"/> nonan	<input type="checkbox"/> sulfur dioxide
<input type="checkbox"/> crude oil	<input type="checkbox"/> iron oxide dust	<input type="checkbox"/> oxides of nitrogen	<input type="checkbox"/> zinc oxide
<input type="checkbox"/> cyclohexane	<input type="checkbox"/> isohexane	<input type="checkbox"/> pentaerythritol	<input type="checkbox"/> zinc stearate
<input type="checkbox"/> cyclohexene	<input type="checkbox"/> isopropyl alcohol	<input type="checkbox"/> plaster of paris	
<input type="checkbox"/> refinery petroleum fractions (except for pyrolysis naphthas and pyrolysis gasoline) containing less than ten volume percent benzene			
<input type="checkbox"/> fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116			



**Title 30 Texas Administrative Code § 106.261  
Permit By Rule (PBR) Checklist  
Facilities (Emission Limitations)**

<b>Check The Most Appropriate Answer (continued)</b>	
a3	<p>Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical having a limit value (L) greater than 200 milligrams per cubic meter (mg/m<sup>3</sup>) as listed and referenced in Table 262 of 30 TAC § 106.262 of this title (relating to Facilities (Emission and Distance Limitations)? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA</span></p>
<p>List chemical(s): _____ L value(s): _____</p>	
<p>Are total new or increased emissions, including fugitives, less than or equal to 1.0 lb/hr of any chemical not listed or referenced in Table 262? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</span></p> <p>List chemical(s): See Appendix</p>	
<p>Are total new or increased emissions, including fugitives, of a chemical with a limit value of less than 200 mg/m<sup>3</sup>? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</span></p> <p><i>If "YES" the authorization of the chemical is not allowed under this section. We suggest you use 30 TAC § 106.262 to authorize the emissions, if applicable.</i> <span style="float: right;"><b>INVISTA is using PBR 262</b></span></p>	
a4	<p>Are there any changes to or additions of any existing air pollution abatement equipment? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</span></p>
a5	<p>Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater than 5.0% opacity in any six-minute period? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</span></p>
a6	<p>Are emission increases five tons per year or greater? <span style="float: right;"><input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> NA</span></p> <p><i>If "YES," this checklist must be attached to a Form PI-7 within ten days following the installation or modification of the facilities.</i></p> <p><b>[Note: 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.]</b></p>
a7	<p>Are emission increases less than five tons per year? <span style="float: right;"><input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NA</span></p> <p><i>If "YES," this checklist must be attached to a Form PI-7 and include a description of the project, calculations, data identifying specific chemical names, limit values, and a description of pollution control equipment, if any. (pick one):</i></p> <p><input type="checkbox"/> 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</p> <p><input type="checkbox"/> By March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year.</p>

**Save Form**

**Reset Form**

**Title 30 Texas Administrative Code § 106.262**  
**Permit by Rule (PBR) Checklist**  
**Facilities (Emission and Distance Limitations)**

The following checklist is designed to help you confirm that you meet Title 30 Texas Administrative Code § 106.262 (30 TAC § 106.262) requirements. If you do not meet all the requirements, you may alter the project design or operation in such a way that all the requirements of the PBR are met or you may obtain a construction permit. The PBR forms, tables, checklists and guidance documents are available from the Texas Commission on Environmental Quality (TCEQ), Air Permits Division Web site at, [www.tceq.state.tx.us/nav/permits/air\\_permits.html](http://www.tceq.state.tx.us/nav/permits/air_permits.html).

For additional assistance with your application, including resources to help calculate your emissions, please visit the Small Business and Local Government Assistance (SBLGA) webpage at the following link: [www.TexasEnviroHelp.org](http://www.TexasEnviroHelp.org)

<b>Check the Most Appropriate Answer:</b>			
Is a description or checklist of how this claim meets the general requirements for the use of PBRs in 30 TAC § 106.4 attached?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
b1. Is this claim for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect? <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> N/A
b2. Is this claim for any change to any facility authorized under another section of this chapter or authorized under a standard perm? <i>If "YES," this PBR cannot be used to authorize emissions from the project.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> N/A
c. Is the facility authorized under another section of this chapter or under a standard permit? <i>If "YES," subsection (a)(2) and (3) of this section may be used to qualify the use of other chemicals at the facility.</i>	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO	<input type="checkbox"/> N/A
a1. Are facilities or changes 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?	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
a2. Are new or increased emissions, including fugitives, emitted in a quantity less than five tons per year or in a quantity less than E as determined by using the equation $E=L/K$ ? See Table 262 Figures 1 and 2. <i>If "YES," the notification shall include a description of the project, calculations for all emissions being claimed under this PBR:</i>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
Chemical: HMD	L value: 0.32	D: >3000 feet	K: 8
a3. Is this checklist attached to a Form PI-7 within ten days following the installation or modification of the facilities? <i>If "YES," the notification shall include a description of the project, calculations, and data identifying specific chemical names, L values, and a description of pollution control equipment, if any.</i>	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	<input type="checkbox"/> N/A
a4. Are one or more of the following chemicals is handled for this registration? (Check all that apply) <i>If "YES," answer the following four questions.</i>	<input type="checkbox"/> YES	<input type="checkbox"/> NO	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> acrolein <input type="checkbox"/> allyl chloride <input type="checkbox"/> ammonia (anhydrous) <input type="checkbox"/> arsine <input type="checkbox"/> boron trifluoride <input type="checkbox"/> bromine <input type="checkbox"/> carbon disulfide <input type="checkbox"/> chlorine <input type="checkbox"/> chlorine dioxide <input type="checkbox"/> chlorine trifluoride <input type="checkbox"/> chloroacetaldehyde <input type="checkbox"/> chloropicrin <input type="checkbox"/> chloroprene	<input type="checkbox"/> diazomethane <input type="checkbox"/> diborane <input type="checkbox"/> diglycidyl ether <input type="checkbox"/> dimethylhydrazine <input type="checkbox"/> ethyleneimine <input type="checkbox"/> ethyl mercaptan <input type="checkbox"/> fluorine <input type="checkbox"/> formaldehyde (anhydrous) <input type="checkbox"/> hydrogen bromide <input type="checkbox"/> hydrogen chloride <input type="checkbox"/> hydrogen cyanide <input type="checkbox"/> hydrogen fluoride <input type="checkbox"/> hydrogen selenide	<input type="checkbox"/> hydrogen sulfide <input type="checkbox"/> ketene <input type="checkbox"/> methylamine <input type="checkbox"/> methyl bromide <input type="checkbox"/> methyl hydrazine <input type="checkbox"/> methyl isocyanate <input type="checkbox"/> methyl mercaptan <input type="checkbox"/> nickel carbonyl <input type="checkbox"/> nitric acid <input type="checkbox"/> nitric oxide <input type="checkbox"/> nitrogen dioxide <input type="checkbox"/> oxygen difluoride	<input type="checkbox"/> ozone <input type="checkbox"/> pentaborne <input type="checkbox"/> perchloromethyl mercaptan <input type="checkbox"/> perchloryl fluoride <input type="checkbox"/> phosgene <input type="checkbox"/> phosphine <input type="checkbox"/> phosphorus trichloride <input type="checkbox"/> selenium <input type="checkbox"/> hexafluoride stibine <input type="checkbox"/> liquefied sulfur dioxide <input type="checkbox"/> sulfur pentafluorid <input type="checkbox"/> tellurium hexafluoride

**Title 30 Texas Administrative Code § 106.262**  
**Permit by Rule (PBR) Checklist**  
**Facilities (Emission and Distance Limitations)**

Check the Most Appropriate Answer:			
Are all facilities are located at least 300 feet from the nearest property line and 600 feet from any off-plant receptor?	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
Are the cumulative amount of any of the following chemicals resulting from one or more authorizations under this section (but not including permit authorizations) less than or equal to 500 pounds on the plant property?	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/> NO <input type="checkbox"/> N/A
Are all listed chemicals handled only in unheated containers operated in compliance with the United States Department of Transportation regulation (49 Code of Federal Regulation, Parts 171-178)?	<input type="checkbox"/>	YES	<input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Are any changes to or additions of any existing air pollution abatement equipment?	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
a5. Are there any changes to or additions of any existing air pollution abatement equipment?	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
a6. Will there be any visible emissions, except uncombined water, emitted to the atmosphere from any point or fugitive source in amounts greater that 5.0% opacity in any six-minute period?	<input type="checkbox"/>	YES	<input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A

D (feet)	K	
100	326	E=maximum allowable hourly emission, and never to exceed 6 pounds per hour.
200	200	
300	139	
400	104	
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 affects 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).

Compound	Limit (L) Milligrams Per Cubic Meter
Acetone	590.
Acetaldehyde	9.
Acetone	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 Mercaptain	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
Diisobutyl Ketone	63.9

**Table 262**  
**Limit Values (L) for use with Exemptions from Permitting § 106.262**

The values are not to be interpreted as acceptable health affects 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).

Compound	Limit (L) Milligrams Per Cubic Meter
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.

**Save Form**

**Reset Form**

**Table 262**  
**Limit Values (L) for use with Exemptions from Permitting § 106.262**

The values are not to be interpreted as acceptable health affects 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).

Compound	Limit (L) Milligrams Per Cubic Meter
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
Merthyl Methacrylate	34.
Methyl Propyl Ketone	530.
Methyl Sulfide	0.3
Mineral Spirits	350.
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.

**Table 262**  
**Limit Values (L) for use with Exemptions from Permitting § 106.262**

The values are not to be interpreted as acceptable health affects 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).

Compound	Limit (L) Milligrams Per Cubic Meter
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.
Succiononitrile	20.
Tolidin	0.02
Trichloroethylene	135.
Trinethylamine	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.

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**Appendix B**  
**Emission Compliance**  
**Demonstration**

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**INVISTA S.à r.l. - VICTORIA PLANT**  
**COMPARISON OF INCREASED EMISSIONS TO ALLOWABLE EMISSION RATES IN §106.261 & §106.262**  
**EPN: 04FUG**  
**December 2014**  
**Currently Authorized Emissions**

Calculation for 106.262(a)(2):

where:

**E = L/K**  
**E =** the maximum allowable emission rate (lb/hr) never to exceed 6.0 pounds per hour.  
**L =** the value from Table 262 in Exemption 106.262 (mg/m<sup>3</sup>).  
**K =** a factor based on distance to the nearest receptor (mg/m<sup>3</sup>/lb/hr).

The distance to the nearest off-plant receptor is approximately >3,000 feet, thus:

**K = 8**

Compound	L-value	L-value Origns	Basis for Allowable Emission Rate	Allowable Emissions		Actual Emission Rates		Meets PBR Limit?	
	(mg/m <sup>3</sup> )			E (lb/hr)	E (tpy)	E (lb/hr)	E (tpy)	E (lb/hr)	E (tpy)
1,2-Diaminocyclohexane	None	None	106.261(a)(3)	1.00	4.38	1.14E-02	4.98E-02	YES	YES
2-Methylpenta-methylenediamine	None	None	106.261(a)(3)	1.00	4.38	1.57E-06	6.87E-06	YES	YES
2-Aminomethylcyclopentylamine	None	None	106.261(a)(3)	1.00	4.38	7.08E-06	3.10E-05	YES	YES
Hexamethylene diamine	0.32	Table 262	106.262(a)(2)	0.04	0.18	3.89E-06	1.70E-05	YES	YES
Hexamethyleneimine	None	None	106.261(a)(3)	1.00	4.38	1.94E-04	8.48E-04	YES	YES
n-Hexylamine	None	None	106.261(a)(3)	1.00	4.38	4.37E-05	1.92E-04	YES	YES

Notes:

L values are based on Table 262, 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).

**INVISTA S.à r.l. - VICTORIA PLANT**  
**COMPARISON OF INCREASED EMISSIONS TO ALLOWABLE EMISSION RATES IN §106.261 & §106.262**  
**EPN: 04FUG**  
**December 2014**  
**Proposed Emissions**

Calculation for 106.262(a)(2):

where:

E = L/K

E = the maximum allowable emission rate (lb/hr) never to exceed 6.0 pounds per hour.  
L = the value from Table 262 in Exemption 106.262 (mg/m3).  
K = a factor based on distance to the nearest receptor (mg/m3/lb/hr).

The distance to the nearest off-plant receptor is approximately >3,000 feet, thus:

K = 8

Compound	L-value	L-value Origins	Basis for Allowable Emission Rate	Allowable Emissions		Actual Emission Rates		Meets PBR Limit?	
	(mg/m3)			E (lb/hr)	E (tpy)	E (lb/hr)	E (tpy)	E (lb/hr)	E (tpy)
1,2-Diaminocyclohexane	None	None	106.261(a)(3)	1.00	4.38	5.10E-02	2.23E-01	YES	YES
2-Methylpenta-methylenediamine	None	None	106.261(a)(3)	1.00	4.38	7.77E-06	3.40E-05	YES	YES
2-Aminomethylcyclopentylamine	None	None	106.261(a)(3)	1.00	4.38	3.39E-05	1.48E-04	YES	YES
Hexamethylene diamine	0.32	Table 262	106.262(a)(2)	0.04	0.18	2.05E-05	8.99E-05	YES	YES
Hexamethyleneimine	None	None	106.261(a)(3)	1.00	4.38	6.90E-04	3.02E-03	YES	YES
n-Hexylamine	None	None	106.261(a)(3)	1.00	4.38	1.55E-04	6.80E-04	YES	YES

Notes:

L values are based on Table 262, 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).

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**Appendix C**  
**Copy of Application Fee Payment**

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## TCEQ ePay Voucher Receipt

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### Transaction Information

**Voucher Number:** 226501  
**Trace Number:** 582EA000180107  
**Date:** 12/08/2014 04:44 PM  
**Payment Method:** CC - Authorization 0000032875  
**Amount:** \$450.00  
**Fee Type:** PERMIT BY RULE - NOT SMALL BUSINESS, CITY OR ISD  
**ePay Actor:** Jenna Timtiman

### Payment Contact Information

**Name:** Jenna Timtiman  
**Company:** Invista S À R L  
**Address:** 2695 Old Bloomington Rd N, Victoria, TX 77905  
**Phone:** 361-572-1750



### Site Information

**Site Name:** INVISTA S À R L  
**Site Location:** 2696 OLD BLOOMINGTON RD NVICTORIA TX 77905

### Customer Information

**Customer Name:** INVISTA S À R L

### Other Information

**Comments:** Revise PBR for DCH tank breather pot

**Appendix D**  
**Air Permits and Registrations**

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**INVISTA S.à r.l.**  
**VICTORIA PLANT**  
**AIR PERMITS AND REGISTRATIONS**  
**DECEMBER 2014**

Unit Name	NSR Permit	TVOP Permit
Diamine (East) Powerhouse	813	O-1867
Cogeneration	9560	O-1867
Nitric Acid (AOP)	809	O-1867
Adipic (West) Powerhouse	812	O-1867
Adipic Acid	810	O-1415
Dodecanedioic Acid (C-12 Intermediates)	20011	O-1415
Hexamethylene Diamine (HMD)	23271	O-1902
Biotreatment	31376	O-1902
Adipionitrile (ADN)	7186	O-1904

Permit by Rule Registration Numbers						
43501	43502	47610	73896	73898	85650	87075
87563	89577	91357	91536	92094	92217	92339
92605	93064	94270	94982	95034	95372	95376
95435	95553	95786	95796	95926	96200	96543
96851	96860	98317	98591	99179	100958	101161
101170	101241	101644	101656	101769	101892	101961
102246	102334	102390	102817	102845	103298	103838
103841	103996	104062	104566	105010	105022	105033
105206	105728	106607	106757	106823	107096	107204
107577	108018	108535	108638	108668	109746	109939
110059	111184	111195	111200	111480	111677	111678
111679	112193	112388	113088	113523	114622	115101
115157	115169	115936	116087	116638	117482	117779
118280	118639	118733	118805	119129	119719	119739
120507	120957	121283	122060	122173	122193	122233
122765	122769	122834	123498	123500	124186	124406

Permits by Rule Used						
106.124	106.183	106.261	106.262	106.263	106.264	106.352
106.373	106.433	106.454	106.472	106.476	106.492	106.512