

Permits by Rule General Facilities Workbook

Version 3.0 - Workbook for Multiple Projects

This workbook is a tool provided for projects being authorized under Permits by Rule (PBR) 30 TAC §§ 106.261 and/or 106.262.

Instructions:

This workbook (in Excel format) is required for all PBR applications submitted under these rules. Please answer the questions and fill in emissions data in the yellow cells.

Please check our website to be sure you **use the latest version of the workbook for all the features and accurate information. Also, please complete the workbook in the order of the worksheets.**

Questions? Contact the Air Permits Division at (512) 239-1250

For rule language of §§106.261 and 106.262, please visit the Texas Secretary of State (SOS) website:

[https://texreg.sos.state.tx.us/public/readtac\\$ext.ViewTAC?tac_view=5&ti=30&pt=1&ch=106&sch=K&rl=Y](https://texreg.sos.state.tx.us/public/readtac$ext.ViewTAC?tac_view=5&ti=30&pt=1&ch=106&sch=K&rl=Y)

How to Submit:

After this workbook has been completed, it should be combined with the non-confidential information of the application and submitted as an attachment through the STEERS ePermits system:

<https://www3.tceq.texas.gov/steers/>

Any confidential information should be submitted as an attachment separate from the non-confidential attachment in the STEERS ePermits system. THSC §382.041 requires us not to disclose any information related to manufacturing processes that is marked Confidential. Mark any information related to secret or proprietary processes or methods of manufacture Confidential if you do not want this information in the public file. All confidential information should be separated from the application and submitted as a separate file. Additional information regarding confidential information can be found at:

<https://www.tceq.texas.gov/permitting/air/confidential.html>

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General Information	
This sheet provides general rule information for both General Facility PBRs.	
Instructions: Please fill out all yellow cells unless marked optional. Attach the federal applicability review to the application for each project. An optional supplemental information field has been provided at the end of this worksheet. This field should be used for demonstration of rule or policy compliance.	

I. Project Information	
Company	Chevron Phillips Chemical Company LP
Site Description	Sweeny Old Ocean Facilities
General Project Description	U33 Fugitive Component Additions for Tower T-209 drain line, Tower T-220 and E-68's drain line, and DeC4 Tower level transmitter change.
I acknowledge that I am submitting an authorized TCEQ workbook and any necessary attachments. Except for inputting the requested data and adjusting row height, I have not changed the TCEQ application workbook in any way, including but not limited to changing formulas, comments, content, or annotations.	I agree
Please indicate which rule, or both, are applicable to this project:	Both
Does this project authorize a new facility, modify an New Source Review (NSR) Case-by-Case existing permitted facility, or both?	Modify Existing
Is this site only authorized under Permits by Rule?	No
Is this located at a federal NSR major source (PSD or NNSR)?	Yes
Is a federal NSR applicability determination for each project attached in the application?	Yes
Is there an associated NSR case-by-case permit?	Yes
Please enter the associated NSR permit(s):	22690

II. General Rule Requirements for §106.261 and/or §106.262	
Has a §106.4 checklist or compliance demonstration been included in the documentation	Yes
Is this registration for construction of a facility authorized in another section of this chapter or for which a standard permit is in effect?	No
Are emission increases being authorized under §106.261 five tons per year or greater?	No
Submit a notification by March 31 of the following year summarizing all uses of this permit by rule in the previous calendar year.	
Is this registration for any change to any facility authorized under another section of this chapter or authorized under a standard permit?	No
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?	Yes
Are there any changes to or additions of any existing air pollution abatement equipment?	No
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?	No
In the row below, please include the following information for any pollution control equipment related to this registration: how the equipment operates, and the control efficiency achieved.	
N/A	
Are one or more of the following chemicals is handled for this registration? For chemicals being authorized under §106.262 only	N/A
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 hexafluoride, and tellurium hexafluoride.	
These chemicals shall be handled at least 300 feet from the nearest property line and 600 feet from any off-plant receptor, and the cumulative amount of any of these 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).	
Distance to Property Line (feet):	
Distance to any off-plant receptor (feet):	
Cumulative amount of the above listed chemicals authorized under this section (pounds):	
Containers of these chemicals may not be vented or opened directly to the atmosphere at any	

III. Associated Emission Increases	
Is this project related to physical or operational changes to facilities authorized under an NSR Case?	No
Any upstream and/or downstream actual emission increases that result from a project for which this PBR is claimed need to be authorized appropriately. Any associated upstream and/or downstream emissions authorized as part of the PBR claim will need to be included as part of the total new or increased emissions, unless: 1) these emissions stay below current authorized emission limits; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT, health and environmental impacts, or other representations (i.e. construction plans, operating procedures, throughputs, maximum emission rates, etc.); and 3) this claim is certified via P1-7 CERT or APD-CERT. Notwithstanding the exclusion of any upstream and/or downstream emissions under this PBR claim, the total of all emission increases, including upstream and/or downstream actual emission increases, are required to be part of the PBR registration to determine major new source review applicability under Title 30 TAC Chapter 116. The emission increases associated with the PBR claim and all upstream and/or downstream actual emission increases may not circumvent major new source review requirements under 30 TAC Chapter 116.	
Please explain how all actual emission increases are authorized appropriately:	

IV. Hours of Operation	
Does this project include only annual increases?	No
Project emission increases associated with a change to a facility that only result in an annual emissions increase can be authorized as part of the PBR claim if the following information is met: 1) the hourly emissions stay at or below current authorized emission limits; 2) there is not a change to any underlying air authorizations for the applicable units associated with BACT or health and environmental impacts; and 3) this claim is certified via P1-7-CERT. The annual emission increases associated with the PBR claim may not circumvent major new source review requirements under 30 TAC Chapter 116.	
Please explain how the project meets the above:	

Supplemental Information (Optional)	

[Click here to go to the Project List sheet.](#)

Project List

This sheet provides general rule information for both General Facility PBRs.

Instructions:

This project list will identify various projects in the registration. Please list out the project names, distance to the nearest receptor, and a short project description and explanation for why the project was done. The distance to the nearest off-plant receptor shall be at least 100 feet, and the maximum limit in this workbook is 10,000 feet. Utilize the worst-case distance for each project.

Project Number	Project Name	Distance to Nearest Receptor (ft)	Description
1	MOC 22-6042	600	Tower T-209 drain line.
2	MOC 22-6058	600	Tower T-220 and E-68 drain line.
3	MOC 22-256	600	DeC4 Tower level transmitter change.

30 TAC §106.261(a)(2) Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.261.

Instructions: Please fill out all yellow cells unless marked optional.

Are there new or increased emissions listed under §106.261(a)(2), including fugitives, less than or equal to 6.0 pounds per hour (lb/hr) and ten tons per year? Yes

Please select chemical and enter emission rates:

To search for contaminants, enter a keyword and then click on the drop-down for your results.

Project Name	Chemical	Emission Limit (lb/hr)	Emission Limit tpy	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Meets Limit?
MOC 22-6042	Butane	6.00	10.00	1.52E-05	6.64E-05	Yes
MOC 22-6058	Butane	6.00	10.00	2.58E-05	1.13E-04	Yes
MOC 22-256	Cyclohexane	6.00	10.00	3.86E-06	1.69E-05	Yes

30 TAC §106.261(a)(3) Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.261.

Instructions: Please fill out all yellow cells unless marked optional. Also, please note that emissions must be fully speciated and cannot have general categories listed (e.g. "Organics", "Unspeciated VOCs", "TSP").

Are there 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/m³) as listed and referenced in Table 262 of 30 TAC § 106.262 (relating to Facilities (Emission and Distance Limitations)?

No

Are there 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?

Yes

Please enter the chemical name, L value, and emission rates:

If there is no L value available for the chemical, then leave the L value blank.

Project Name	Chemical	L value (mg/m ³)	Hourly Emissions (lb/hr)	Annual Emissions (tpy)	Is the L value greater than 200 mg/m ³ ?	Meets Limit?
MOC 22-6042	1-BUTENE		9.09E-06	3.98E-05	N/A	Yes
MOC 22-6042	1-TRANS-3-PENTADIENE		3.03E-06	1.33E-05	N/A	Yes
MOC 22-6042	CYCLOPENTADIENE		1.06E-05	4.65E-05	N/A	Yes
MOC 22-6042	CYCLOPENTENE		3.03E-06	1.33E-05	N/A	Yes
MOC 22-6042	ISO-BUTANE		1.52E-06	6.64E-06	N/A	Yes
MOC 22-6042	ISO-BUTENE		3.03E-06	1.33E-05	N/A	Yes
MOC 22-6042	METHYLCYCLOPENTENE		1.52E-06	6.64E-06	N/A	Yes
MOC 22-6042	TRANS-2-BUTENE		2.27E-05	9.95E-05	N/A	Yes
MOC 22-6042	UNKNOWN AS C5		1.52E-06	6.64E-06	N/A	Yes
MOC 22-6058	1-BUTENE		1.55E-05	6.77E-05	N/A	Yes
MOC 22-6058	1-TRANS-3-PENTADIENE		5.15E-06	2.26E-05	N/A	Yes
MOC 22-6058	CYCLOPENTADIENE		1.80E-05	7.90E-05	N/A	Yes
MOC 22-6058	CYCLOPENTENE		5.15E-06	2.26E-05	N/A	Yes
MOC 22-6058	ISO-BUTANE		2.58E-06	1.13E-05	N/A	Yes
MOC 22-6058	ISO-BUTENE		5.15E-06	2.26E-05	N/A	Yes
MOC 22-6058	METHYLCYCLOPENTENE		2.58E-06	1.13E-05	N/A	Yes
MOC 22-6058	UNKNOWN AS C5		2.58E-06	1.13E-05	N/A	Yes
MOC 22-256	1,2 HEXADIENE		3.86E-06	1.69E-05	N/A	Yes
MOC 22-256	1-TRANS-3-PENTADIENE		2.70E-05	1.18E-04	N/A	Yes
MOC 22-256	2-METHYL-1,3-BUTADIENE		3.86E-06	1.69E-05	N/A	Yes
MOC 22-256	2-METHLYBUTANE		3.86E-06	1.69E-05	N/A	Yes
MOC 22-256	CYCLOPENTADIENE		7.72E-05	3.38E-04	N/A	Yes
MOC 22-256	CYCLOPENTENE		2.70E-05	1.18E-04	N/A	Yes
MOC 22-256	METHYLCYCLOPENTANE		7.72E-06	3.38E-05	N/A	Yes
MOC 22-256	PENTANE		3.86E-06	1.69E-05	N/A	Yes
MOC 22-256	UNKNOWN AS C5		1.16E-05	5.07E-05	N/A	Yes

30 TAC §106.262 Table 262 Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.262.

Instructions: Please fill out all yellow cells unless marked optional.

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 $E = L/K$.

Are the chemicals being registered included in Figure 2 - Table 262 of 30 TAC §106.262(a)(2)? Yes

Chemicals listed in the 1997 Edition of the ACGIH TLV and BEI Guide are available in the next worksheet.

Please select chemical and enter emission rates:

To search for contaminants, enter a keyword and then click on the drop-down for your results.

Project Name	Chemical	L Value (mg/m3)	K value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
MOC 22-6042	Benzene	3	65	4.62E-02	2.02E-01	2.88E-05	1.26E-04	Yes
MOC 22-6058	Benzene	3	65	4.62E-02	2.02E-01	4.89E-05	2.14E-04	Yes
MOC 22-256	Benzene	3	65	4.62E-02	2.02E-01	2.16E-04	9.47E-04	Yes

30 TAC §106.262 TLV Checklist

This sheet provides compliance demonstration and emission limits for 30 TAC §106.262.

Instructions: Please fill out all yellow cells unless marked optional.

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 BEI Guide? Yes

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.

Please select applicable chemicals from dropdown, and enter emission rates:

To search for contaminants, enter a keyword and then click on the drop-down for your results.

Project Name	Chemical	L Value (mg/m3)	K Value (from distance)	E, maximum Hourly Emission Limit (lb/hr)	Annual Emission Limit (tpy)	Actual Hourly Increases (lb/hr)	Actual Annual Increase (tpy)	Meets Limit?
MOC 22-6042	1,3-Butadiene	4.4	65	6.77E-02	2.96E-01	5.00E-05	2.19E-04	Yes
MOC 22-6042	1,3-Butadiene	4.4	65	6.77E-02	2.96E-01	8.50E-05	3.72E-04	Yes
MOC 22-256	Toluene	188	65	2.89E+00	5.00E+00	3.86E-06	1.69E-05	Yes

Emission Point Summary Table

The emission point summary table provided here is optional.

Instructions:

Please fill out the Emission Point Summary Table for the project emissions, including all emissions and rules being registered. Additional rows can be added if needed.

EPN / Source Name	Rule(s)	VOC		NO _x		CO		SO ₂		PM		PM ₁₀		PM _{2.5}		Other	
		lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
83-0-0/U33 Process Fugitives	§106.261/262	7.95E-04	3.48E-03														
Total Emissions (tpy)			3.48E-03		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00		0.00E+00
Maximum Operating Schedule	Hours/Day			Days/Week		Weeks/Year		Hours/Year									
Notes																	