

Path Emissions

TCEQ Emissions Inventory Year 11

SAMPLE FORM

Already exists in the STARS database¹

FIN EPN CIN

Company Name: ² Johnson Gas Company	Site Name: ³ Creek Compressor Station	TCEQ Air Account Number: ⁴ HF6789X	RN: ⁵ RN123456789
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CREATE A PATH

FIN: ⁶ ENGINE1	EPN: ⁷ STACK1A	CIN(s): ⁸
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Path Comment(s):⁹ Rich-burn 500 hp compressor

Total Annual Aggregate Heat Input (Combustion Units Only): ¹⁰ <u>420,000</u> MMBtu	Path Effective Date: ¹¹ 1/1/2006
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LIST NO_x EMISSIONS FACTOR AND SOURCE FOR THIS PATH (if applicable)

NO _x Emissions Factor ¹² <u>0.336</u>	Emissions Factor Units ¹³ <u>lb/MMBtu</u>	Factor Reference/Source ¹⁴ <u>Vendor's Data</u>
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REPORT EMISSIONS FROM THIS PATH

Contaminant Code ¹⁵	Contaminant Name ¹⁶	Annual Emissions ¹⁷ (tons/year)	Ozone Season Emissions ¹⁸ (pounds/day)	Determination Methodology ¹⁹	SMSS ²⁰ (tons/year)	Emissions Events (EE) ²¹ (tons/year)
10000	PM—unspeciated	0.3021	1.6416	A	0	0
20000	PM ₁₀ —unspeciated	0.3021	1.6416	A	0	0
39999	PM _{2.5} total	0.3021	1.6416	A	0	0
50001	VOC—unspeciated	6.3590	34.5546	A	0	0
51620	Acetaldehyde	0.2866	1.5574	A	0	0
51680	Formaldehyde	1.8102	9.8366	A	0	0
70400	Nitrogen Oxides	12.9884	70.5890	V	0.01	0.04
70510	Sulfur Dioxide	0.0502	0.2728	A	0	0
90300	Carbon Monoxide	16.0089	87.0051	V	0.01	0.04

INSTRUCTIONS: Path Emissions Form

Complete the **Path Emissions** form to add a new path and report the path's emissions. Recall that a path consists of at least a FIN and an EPN; if emissions are abated, then the path also includes a CIN.

1. **Already exists in the STARS database:** If the FIN, EPN or CIN of this path is already in the STARS database, please indicate by checking the appropriate box for all that apply.
2. **Company Name:** The official name of the owner or operator responsible for submitting the emissions inventory.
3. **Site Name:** The name of the regulated entity.
4. **TCEQ Air Account Number:** The account number as assigned by the TCEQ. If an account number has not been previously assigned, the EAS will assign an air account number based on the location of the regulated entity.
5. **Regulated Entity Reference Number (RN):** The number that Central Registry assigns to a location where a TCEQ-regulated activity occurs. If an RN has not already been assigned, complete a Core Data Form and submit it to Central Registry. Submit a copy of the form with the inventory.
6. **FIN:** Indicate the path's facility.
7. **EPN:** Specify the path's emission point.
8. **CIN(s):** Identify the path's abatement device(s), if applicable. List the primary abatement device first, if the path includes more than one abatement device.
9. **Path Comments:** Supply any clarifying information related to the path.
10. **Total Annual Aggregate Heat Input:** For **combustion units only**, the total heat value of all fuels that the unit combusted by the unit during the year, in million British thermal units.
11. **Path Effective Date:** Indicate the date when the facility began emitting through this emission point.
12. **NO_x Emissions Factor:** If this path emitted NO_x emissions, write the numerical value of the NO_x emissions factor in the blank provided.
13. **Emissions Factor Units:** The units associated with the NO_x emissions factor, preferably in lb/MMBtu or similar process-rate based units.
14. **Factor Reference/Source:** Cite the reference or source where the NO_x emissions factor originated. Reference or source examples include: stack-test data, CEMS data, manufacturer's data, and AP-42.

For each contaminant associated with the path, use one line to enter the following information:

15. **Contaminant Code:** The five-digit code associated with the air contaminant. A list of contaminant codes is available in Appendix I.
16. **Contaminant Name:** The air contaminant being reported.
17. **Annual Emissions:** Total contaminant emission rate for the year, measured in tons per year. Use a maximum of four decimal places, and do not use scientific notation.
18. **Ozone Season Emissions:** Average actual contaminant emission rate during the ozone season, in pounds per day. Recall that the ozone season is defined as the 153 days from May 1 through September 30. This information is mandatory for all regulated entities in El Paso County and for all those that are located east of the 100° Central Meridian. Ozone season rates are not calculated by the EAS database, and must be supplied by the owner or operator.
19. **Determination Methodology:** The method used to determine the reported emissions. The available choices are: **A** (AP-42 and other EPA- or TCEQ-approved factors), **B** (material balance), **D** (continuous emissions monitoring systems, CEMS), **E** (estimation), **F** (predictive emissions monitoring systems, PEMS), **H** (highly reactive volatile organic compound [HRVOC] monitoring systems), **M** (measured data), **O** (other), **Q** (portable analyzer test data), **S** (scientific calculation), and **V** (vendor-supplied factors).
20. **Scheduled Maintenance, Startup, and Shutdown Activities (SMSS):** Total contaminant emission rate from scheduled maintenance, startup, and shutdown activities, in tons per year.
21. **Emissions Events (EE):** Total contaminant emission rate from emissions events, in tons per year.