NEBRASKA
DEPT. OF ENVIRONMENT AND ENERGY

Air Quality Operating Permit Application
Form 3.0: Pollutant Emissions Summary

Section 3.1: Emissions Summary

SOURCE NAME: _____   DATE: _____

NDEE FACILITY ID#: _____

IMPORTANT: PLEASE READ THE INSTRUCTIONS BELOW PRIOR TO COMPLETING THIS FORM.
Please type responses or use black ink. Do NOT use pencil.

All emission points must be included in the Emission Point ID# column. For each emission point, **indicate the potential quantity, in pounds per hour (lbs/hr) and tons per year (tons/year),** of each regulated pollutant that may be emitted. The total potential emissions for each regulated pollutant is the sum of each respective pollutant column. Attach additional copies of the tables in Section 3.1 as necessary. Please attach equations, emission factors, their sources, assumptions used in the calculations, and any other information that will help the NDEE evaluate the emissions calculations .

Please check, if applicable: ☐ Multiple Section 3.1 pages attached

If you are providing a Substitute Section 3.1, indicate this on Form 1.0, Section 1.1 Checklist. You do not need to include blank Section 3.1 pages in your application. Be sure to include all of the information required below in your substitute document.

Table 1: Potential Emissions (lbs/hour and tons/year)

Emission Point ID#	PM		PM$_{10}$		PM$_{2.5}$		NO$_x$		SO$_x$		CO		VOC	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL														

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All emission points must be included in the Emission Point ID# column. For each emission point, **indicate the actual quantity in pounds per hour (lbs/hr) and tons per year (tons/year)** of each regulated pollutant that may be emitted. The total potential emissions for each regulated pollutant is the sum of each respective pollutant column. Attach additional pages as needed.

Table 2: Actual Emissions (lbs/hour and tons/year)

Emission Point ID#	PM		PM_{10}		$PM_{2.5}$		NO_x		SO_x		CO		VOC	
	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr	lbs/hr	tons/yr
TOTAL														

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All emission points must be included in the Emission Point ID# row across the top of the table. In Column 1, labeled "Hazardous Air Pollutants," list the Hazardous Air Pollutants (HAPs) that are emitted in source-wide quantities greater than reporting levels in Title 129, Appendix I Hazardous Air Pollutants or Appendix III (by name). For each emission point, **indicate the potential quantity in tons per year (ton/yr)** of each HAP that is emitted. The total potential HAP emissions from a single emission point is the sum of emissions in that emission point's column. The total potential emissions of an individual HAP is the sum of each respective HAP row. Attach additional pages as needed.

Table 3: Potential HAP Emissions (tons/year)

Emission Point ID# → / Hazardous Air Pollutants ↓															TOTAL HAP (ton/yr)
TOTAL HAPs (tons/year)															

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All emission points must be included in the Emission Point ID# row across the top of the table. In Column 1, labeled "Hazardous Air Pollutants," list the same Hazardous Air Pollutants (HAPs) that are listed in Table 3. For each emission point, **indicate the actual quantity in tons per year (ton/yr)** of each HAP that is emitted. The total actual HAP emissions from a single emission point is the sum of emissions in that emission point's column. The total actual emissions of an individual HAP is the sum of each respective HAP row. Attach additional pages as needed.

Table 4: Actual HAP Emissions (tons/year)

Emission Point ID# → / Hazardous Air Pollutants ↓													TOTAL HAP (ton/yr)
TOTAL HAPs (tons/yr)													

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All emission points must be included in the Emission Point ID# column. For each emission point, enter the **potential** emissions of each greenhouse gas (GHG) and the total GHGs **in tons per year on a mass basis.** You must also provide **the carbon dioxide equivalents (CO_2e) in tons per year.** CO_2e is calculated by multiplying the individual GHGs emissions by the pertinent greenhouse warming potential (GWP) from Table A-1, Global Warming Potentials at 40 CFR 98 Subpart A as published in 74 Federal Register 56395 on October 30, 2009. For your convenience, we have included the GWP for Methane and Nitrous Oxide. If your source emits one or more of the GHGs not included in the table, use the columns that allow you to fill in GHGs names to report those emissions. The total potential emissions are the sum of each respective column and row.

Table 5: Potential Greenhouse Gases Emissions (tons/year and CO_2 equivalents in tons/year)

Emission Point ID#	Carbon Dioxide (CO_2) (GWP=1)		Methane (CH_4) (GWP=21)		Nitrous Oxide (N_2O) (GWP=310)						Total GHGs	Total CO_2e
	(ton/year mass basis)	(ton/year CO_2e basis)	(ton/year mass basis)	(ton/year CO_2e basis)	(ton/year mass basis)	(ton/year CO_2e basis)	(ton/year mass basis)	(ton/year CO_2e basis)	(ton/year mass basis)	(ton/year CO_2e basis)	(ton/year mass basis)	(ton/year CO_2e basis)
Total												

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All emission points must be included in the Emission Point ID# column. For each emission point, enter the **actual** emissions of each greenhouse gas (GHGs) and the total GHGs **in tons per year on a mass basis.** You must also indicate **the carbon dioxide equivalents (CO₂e) in tons per year.** CO_2e is calculated by multiplying the individual GHGs emissions by the pertinent greenhouse warming potential (GWP) from 40 CFR Part 98, Subpart A, Table A-1 and summing the results. For your convenience, we have included the GWP for Methane and Nitrous Oxide. If your source emits one or more of the GHGs not included in the table, use the columns that allow you to fill in GHGs names to report those emissions. The total actual emission are sum of each respective column and row.

Table 6: Actual Greenhouse Gases Emissions (tons/year and CO₂ equivalents in tons/year)

Emission Point ID#	Carbon Dioxide (CO₂) (GWP=1)		Methane (CH₄) (GWP=25)		Nitrous Oxide (N₂O) (GWP=298)						Total GHGs	Total CO₂e
	(ton/year mass basis)	(ton/year CO₂e basis)	(ton/year mass basis)	(ton/year CO₂e basis)	(ton/year mass basis)	(ton/year CO₂e basis)	(ton/year mass basis)	(ton/year CO₂e basis)	(ton/year mass basis)	(ton/year CO₂e basis)	(ton/year mass basis)	(ton/year CO₂e basis)
Total												