



Air Quality Construction Permit Application

Form 4.0: Emissions Summary

INSTRUCTIONS:

Sections 4.1, 4.2, and 4.3: NSPS, NESHAP, and PSD Requirements

IMPORTANT: Do NOT use pencil to fill out the application. Please type responses or print using black ink. If you have any questions, feel free to contact the Nebraska Department of Environmental Quality via the Air Quality Permitting Hotline at (877) 834-0474 or the Air Quality Permitting Section at (402) 471-2189.

Complete the information on the top of each page. Enter the legal name of the company/facility. The facility name on every page of the application should be identical. Enter the date that the form was completed. Enter the Facility Identification number (FID#) assigned by the Nebraska Department of Environmental Quality.

This form should be completed in its entirety so that all emission points, control equipment, and emission units are accounted for. If additional space is needed attach multiple copies of this form or a separate summary document.

Section 4.1: NSPS Applicable Requirements

Only emission units being addressed by this permitting action need to be included in this section.

Identify all applicable New Source Performance Standards (NSPS) on this form including the federal citation in 40 CFR and a description of the subject emission units (including the emission unit ID#). On the back of this form identify any NSPS that appear to be applicable to the source but do not apply. Include a brief discussion as to why the rule does not apply. If additional space is needed indicate this on the form and attach additional form(s) or a separate summary sheet.

If assistance is needed to identify applicable NSPS requirements contact the Air Quality Permitting Hotline at (877) 834-0474 or the Air Quality Permitting Section at (402) 471-2189.

Section 4.2: NESHAP Applicable Requirements

Complete this form in the same manner as form 4.1 for any applicable National Emission Standards for Hazardous Air Pollutants (NESHAPs).

Section 4.3: Prevention of Significant Deterioration (PSD) Evaluation

If this source is or will become a major source of any regulated pollutants with regard to the Prevention of Significant Deterioration Program (PSD) complete this form.

- 1) Indicate if the proposed source is one of the 28 listed source categories in title 129 Chapter 2 Section 002. If the source is listed as one of the 28 source categories the major source threshold is 100 tpy for any of the PSD regulated pollutants otherwise the source will have a 250 tpy major source threshold.
- 2) Identify the potential to emit (PTE) for each regulated pollutant before and after the issuance of this permit.
- 3) For each emission unit that is undergoing a change as part of this permitting action, identify the unit (ID# and description), whether it is new or existing and how the unit will change (either a change in utilization or physical modification).
- 4) For each regulated pollutant identify the **project** emissions increase by subtracting the baseline actual emissions (BAE) from the potential to emit (PTE) or potential actual emissions (PAE). Include the



Air Quality Construction Permit Application

Form 4.0: Emissions Summary

BAE timeframe selected (***Note*** the timeframe must be a 24 consecutive month time period occurring within the previous ten years (except for electric utility steam generating units, which have a five year look back period instead of ten years). A different timeframe can be used for each regulated pollutant.

- 5) For each regulated pollutant identify the net emissions increase for the **entire** facility. In limited situations a net emissions increase can take credit for previous emissions decreases. Include any previous creditable increases and decreases in emissions and provide the net change in emissions for the regulated pollutant. If the net increase is greater than the PSD major modification thresholds a full PSD analysis is required.
- 6) Indicate if the decreases in emissions described in question 5 have been made federally enforceable. An emissions decrease can be considered federally enforceable if it is a permit condition in an active permit.
- 7) Indicate if any of the emissions increases or decreases has been identified in previous PSD emissions netting analysis. Decreases that have been previously used as part of a netting analysis are not eligible to be used as part of this netting analysis.
- 8) If a demand growth exclusion analysis has been used as part of this netting analysis include a separate document with a summary of the analysis as well as all supporting information.
- 9) Indicate if plant-wide applicability limits (PALs) are desired. ***Note*** PALs may not always be granted and are reviewed on a case-by-case basis. In situations where PALs are granted additional monitoring and recordkeeping may be required.
- 10) If the netting analysis resulted in a significant emissions increase for any regulated PSD pollutant check the appropriate box and include the appropriate analysis as described in the form (BACT, Air-dispersion modeling, Pre-application monitoring, and additional impacts analysis).

Significant Emission Rates for Regulated Pollutants

Regulated Pollutant	Significant Emission Rate (TPY)
PM	25
PM ₁₀	15
PM _{2.5}	10
NO _x	40
SO _x	40
CO	100
VOC	40
Lead	0.6
Fluorides	3
Sulfuric Acid Mist	7
Municipal Solid Waste Landfill Emissions	50
Total Reduced Sulfur	10
Hydrogen Sulfide	10
Municipal Waste Combustor Acid Gases	40
MWC Metals	15
MWC Organics	3.5 X 10 ⁻⁶
Ozone Depleting Substances	Any increase
Greenhouse Gases	75,000 tpy CO ₂ e and 100/250 tpy by mass