



PUBLIC WORKS DEPARTMENT  
 AIR QUALITY DIVISION  
 5885 NE 14<sup>TH</sup> STREET  
 DES MOINES, IOWA 50313

**POLK COUNTY AIR QUALITY DIVISION  
 CONSTRUCTION PERMIT APPLICATION**

**NON-PSD MODELING DETERMINATION FORM**

Company Name: _____	Office Use: AIRS#: _____ Construction Permit# _____
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**DISPERSION MODELING DETERMINATION**

Completion of Form M is intended to assist applicants in determining whether or not point source emissions associated with non-PSD construction permit projects will require an air dispersion modeling analysis. Modeling requirements for non-point source emissions will be determined on a case-by-case basis. This procedure is used for both new construction permit projects and for modifications to previous projects.

This form reflects the Polk County Air Quality Division's (AQD) Air Dispersion Modeling Applicability Procedure for Non-PSD construction permit applications. Please check the appropriate box below depending on whether the flow chart indicates that dispersion modeling is required or not.

Note: ALL projects must include a site plan; see Polk County Construction Permit Application section "PLOT PLAN REQUIREMENTS" for instructions. A scaled plot plan of the entire plant is required. Attach the plot plan, labeled as "MI-1", with your permit application.

**DISPERSION MODELING ANALYSIS IS NOT REQUIRED**  
 Since the point source emissions in this application meet the criteria currently listed in the Air Dispersion Modeling Applicability Procedure, it is likely that modeling is not required.

There are unique circumstances that the Air Dispersion Modeling Applicability Procedure does not address that may trigger a modeling review. Recommendations for modeling reviews that fall outside of the Air Dispersion Modeling Applicability Procedure will be reviewed by Polk County AQD management.

Generators less than 300 kW and a 500 hour or less limit may not need to be modeled

**DISPERSION MODELING ANALYSIS IS REQUIRED**

When dispersion modeling is required, the modeling analysis is either conducted by the Polk County AQD or is submitted by the applicant for Polk County AQD review as noted below:

- All applicants have the option to prepare and submit a complete dispersion modeling analysis, subject to review by the Polk County AQD.
- For major sources that have previously been modeled, the Polk County AQD will conduct the modeling analysis if resources allow. Applicants with extensive changes to their facility may expedite the modeling review by submitting their own modeling analysis.
- For major sources that have not previously been modeled, the applicant may be required to prepare and submit the dispersion modeling analysis.
- For non-major sources (minor), the Polk County AQD will conduct the initial dispersion modeling as a service to minor sources when a modeling analysis has not been submitted by the applicant.

<p><b>Stack/Vent Specification Summary:</b></p> <p>1. Circular (diameter) _____ Other _____</p> <p>2. Discharge Style: Vertical, Horizontal, Downward, Other                  Unobstructed _____ Obstructed _____</p> <p>3. Rated Flow Rate (acfm, scfm) _____</p> <p>4. Exit Temperature: _____</p> <p>5. Discharge Height Above Roof: _____</p> <p>6. Discharge Height Above Grade: _____</p> <p>7. Distance to Property Line: _____</p>	<p><b>Notes:</b> _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
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**FORM - M**

