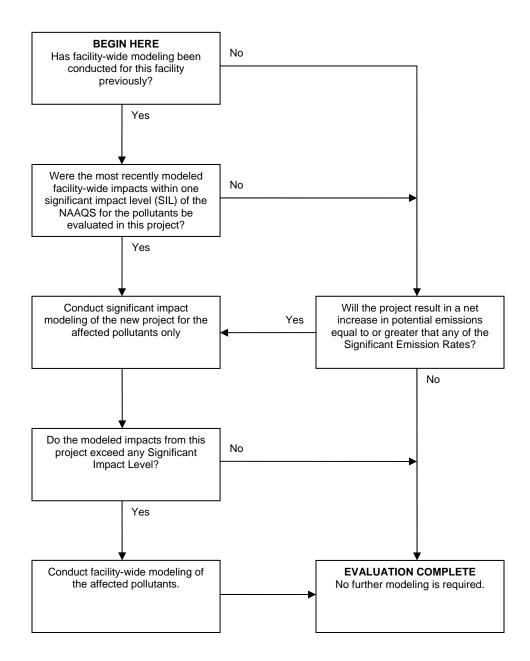


PUBLIC WORKS DEPARTMENT AIR QUALITY DIVISION 5885 NE 14<sup>TH</sup> STREET DES MOINES, IOWA 50313

## POLK COUNTY AIR QUALITY DIVISION CONSTRUCTION PERMIT APPLICATION

## NON-PSD MODELING DETERMINATION (FORM – M)

Company Name:	Office Use: AIRS#:								
	Permit#:								
DISPERSION MODELING DETERMINA	ΠΟΝ								
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 Non-PSD construction permit applications. Please check the appropriate box chart indicates that dispersion modeling is required or not.									
Note: ALL projects must include a site plan; see section "PLOT PLAN REQUIREMENTS" for instructions. A scaled plot plan of the entire plant is required. Attach the plot plan, labeled as "MI-PP", with your permit application.									
Note: Form M only applies to point source emissions and should not be applied to internally venting volume sources. Internally vented sources will be addressed on a case-by-case basis.									
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 Applica may trigger a modeling review. Recommendations for modeling reviews Modeling Applicability Procedure will be reviewed by Polk County AQD ma	that fall outside of the Air Dispersion								
DISPERSION MODELING ANALYSIS IS REQUIRED									
When dispersion modeling is required, the modeling analysis is either con submitted by the applicant for Polk County AQD review as noted below:	nducted by the Polk County AQD or is								
<ul> <li>All applicants have the option to prepare and submit a complete dis review by the Polk County AQD.</li> </ul>	spersion modeling analysis, subject to								
<ul> <li>For major sources that have previously been modeled, the Polk C analysis if resources allow. Applicants with extensive changes to the review by submitting their own modeling analysis.</li> </ul>									
<ul> <li>For major sources that have not previously been modeled, the ap dispersion modeling analysis.</li> </ul>	plicant must prepare and submit the								
<ul> <li>For non-major sources (minor), the Polk County AQD will conduc service to minor sources when a modeling analysis has not been sub-</li> </ul>									



Pollutant	Significant Emission	National Ambient Air Quality Standard (µg/m <sup>3</sup> )						Significant Impact Level (SIL) (μg/m <sup>3</sup> )					
	Rate	1-hour	3-hour	8-hour	24-hour	Annual		1-hour	3-hour	8-hour	24-hour	Annual	
PM10	3.42 lb/hr				150						5		
PM <sub>2.5</sub>	2.28 lb/hr				35	15					1.2	0.3	
NO <sub>2</sub>	9.13 lb/hr	188				100		7.5				1	
SO <sub>2</sub> *	9.13 lb/hr	196	1,300		365	80		7.9	25		5	1	
CO	22.8 lb/hr	40,000		10,000				2,000		500			

\* For 1-hour SO<sub>2</sub>: no dispersion modeling is currently required for minor projects. Ambient air impact evaluation will be required in the future State Implementation Plan revision