|  |  |
| --- | --- |
| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | AQDM-1.5  Air Quality Dispersion Modeling (AQDM)  Protocol resubmittal form  Air Quality Program  *Doc Type: Air Dispersion Modeling* |

## **Acronym information on page 4.**

## **Instructions:** Changes to modeling protocols initially submitted through the Air Dispersion Modeling e-Services website should be entered on this form.

Please email an electronic copy of this form, along with any updated attachments and modeling files to: [AirModeling.PCA@state.mn.us](mailto:AirModeling.PCA@state.mn.us). Please contact the MPCA REAM Unit at [AirModeling.PCA@state.mn.us](mailto:AirModeling.PCA@state.mn.us) to arrange for file delivery if file sizes exceed email delivery capacity.

## **Facility information**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tempo AI ID number: | | | |  | | | | AQ facility/permit ID number: | | | | |  | | | Today’s date (mm/dd/yyyy): | | | | | |  | | |
| Facility name: | |  | | | | | | | | | | | | | | | | | | | | | | |
| Facility street address: | | | | | |  | | | | | | | | | | | | | | | | | | |
| City: |  | | | | | | | | County: | |  | | | | Zip code: | | | |  | | State: | | | MN |
| Facility contact: | | |  | | | | | | | | | Report prepared by: | | | | |  | | | | | | | |
| Facility contact phone: | | | | |  | | | | | | | Preparer phone: | | | | |  | | | | | | | |
| Facility contact email address: | | | | | | |  | | | | | Preparer email address: | | | | | |  | | | | | | |
| \*UTM coordinates of facility (NAD83, zone 15 extended **only**): | | | | | | | | | | x = | | | | m East, | | | | | | y = | | | m North | |
| *\*This should be the central location of the facility/source.* | | | | | | | | | | | | | | | | | | | | | | | | |

**This modeling protocol resubmittal is associated with (check all that apply):**

|  |  |
| --- | --- |
|  | AERA or Dispersion/Deposition modeling for air toxics |
|  | Environmental assessment worksheet |
|  | Environmental impact statement |
|  | Modeling information request |
|  | Modeling impacts from animal feedlots |
|  | Siting an air monitoring station |
|  | Siting a meteorological station |
|  | Permit condition |
|  | Permit modification |
|  | Prevention of significant deterioration |
|  | Screening modeling |
|  | Special project |
|  | State implementation plan |

## **Project description (50 words or less)**

|  |
| --- |
|  |

## **Files updated with this modeling protocol resubmittal**

Use checkboxes to indicate the files that were updated and included with the resubmittal.

|  |  |
| --- | --- |
| 1. | AERMOD files:  SIA input (\*.inp, \*.adi, \*.ami)  SIA output (\*.out, \*.ado, \*.amo)  SIA plot (\*.plt)  SIA post (\*.pst)  CIA sample input (\*.inp, \*.adi, \*.ami)  Other ( \*.emi,\*.evo, etc.) |
| 2. | AERMET files:  Surface (\*.sfc)  Profile (\*.pfl) |
| 3. | BPIP-PRIME files:  Input (\*.bpi, \*.pip)  Output (\*.bpo, \*.sum) |
| 4. | AERMAP files:  Terrain (\*.tif),  Input (\*.inp, \*.ami),  Output (\*,out, \*.rou, \*.sou) |
| 5. | Background data files:  Proposed background concentrations and supporting calculations (annual, seasonal, monthly, , etc.)  Supporting ambient monitoring data |
| 6. | AQDM-02 spreadsheet*(If updating the AQDM-02, highlight the cells with changes within the spreadsheet.)* |
| 7. | Source Impact Analysis results (AQDM-11) |
| 8. | Hourly O3 file |
| 9. | AERA forms |
| 10. | Other files and supporting documents: |
|  |  |

## **Section 1. Initial modeling protocol**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1. | Initial e-Services submittal date (mm/dd/yyyy): |  |  | |
| 2. | Including this resubmittal, how many submittals have been requested for this protocol: | | |  |

## **Section 2. Changes to the initial modeling protocol**

**Table 1: Protocol changes** (Please indicate which sections are being changed from the initial modeling protocol.)

| **Modeling protocol by sections** | |
| --- | --- |
| **Section name** | **Change/No change** |
| Modeling purpose |  |
| Terrain |  |
| Buildings |  |
| Model selection and options |  |
| Point sources |  |
| Volume sources |  |
| Area sources |  |
| Area source coordinates |  |
| Receptors |  |
| Meteorological data |  |
| Source impact analysis |  |
| Background values |  |
| Nearby sources |  |
| Pollutant based considerations |  |
| Attachments |  |
| AERA forms |  |

## **Section 2.1: Detailed changes to modeling protocol**

Please provide specific information corresponding to the sections in Table 1 where changes are indicated. If you consulted with the MPCA regarding these proposed changes, document the date of the consultation.

## **Modeling purpose**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Terrain**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Buildings**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Model selection and options**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Point sources**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Volume sources**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Area sources**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Area source coordinates**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Receptors**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Meteorological data**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |
|  | | |

## **Source impact analysis**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Background values**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Nearby sources**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Pollutant based considerations**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Attachments**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **AERA forms**

|  |  |  |
| --- | --- | --- |
| MPCA consultation:  Yes  No Date (mm/dd/yyyy): |  |  |
| Describe changes: | | |

## **Section 3. Discussion**

Enter any discussion or additional comments on the information provided in this form:

**Acronymns**

|  |  |
| --- | --- |
| AERA  AERMAP | Air Emission Risk Analysis  AERMOD Terrain Preprocessor |
| AERMOD | AMS/EPA Regulatory Model |
| AQ | Air Quality |
| AQDM | Air Quality Dispersion Modeling |
| BPIP-PRIME | Building Profile Input Program for PRIME |
| CIA | Cumulative Impact Analysis |
| MPCA | Minnesota Pollution Control Agency |
| NAAQS  O3 | National Ambient Air Quality Standard  Ozone |
| REAM | Risk Evaluation and Air Modeling Unit |
| SIA  UTM | Source Impact Analysis  Universal Transverse Mercator |