|  |  |
| --- | --- |
| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | AQDM-05  AQDM protocol review form  Air Quality Dispersion Modeling (AQDM)  *(Previously AQDMPRF-01)*  *Doc Type: Air Dispersion Modeling* |

**Instructions:** This form is used for Minnesota Pollution Control Agency (MPCA) internal use by Air Dispersion Modelers, Air Permit Engineers, and Risk Assessors to review modeling protocols.

**Note:** If protocol is marked not approved, please use the AQDM-1.5 form to resubmit. AQDM-1.5 forms and updated attachments should be emailed to: [AirModeling.PCA@state.mn.us](mailto:AirModeling.PCA@state.mn.us). If files are too large to email, please mail a CD with the files to:

Air Quality Permit Document Coordinator

Minnesota Pollution Control Agency

520 Lafayette Road North

St. Paul, MN 55155-4194

Protocol information

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Facility name: |  | | | | | | | | Today’s date (mm/dd/yyyy): | | |  | |
| AQ facility/permit ID number: | | | |  | | | Three-letter modeling facility ID (ex., ACE, XAK, MEC, NUP, etc.): | | | | | |  |
| Tempo AI ID number: | |  | | | | Date protocol was received at the MPCA (mm/dd/yyyy): | | | | |  | | |
| MPCA Air Dispersion Modeler: | | | | |  | | | MPCA Air Permit Engineer: | |  | | | |
| MPCA Air Risk Assessor: | | |  | | | | |

## **Modeling protocol review by sections – Completed by Air Dispersion Modeler**

|  |  |  |
| --- | --- | --- |
| **Section name** | **Acceptable/ Unacceptable** | **Deficiencies and/or comments** |
| Modeling purpose |  |  |
| Terrain |  |  |
| Buildings |  |  |
| Model selection and options |  |  |
| Point sources |  |  |
| Volume sources |  |  |
| Area sources |  |  |
| Area source coordinates |  |  |
| Paved roads fugitive dust |  |  |
| Receptors |  |  |
| Meteorological data |  |  |
| Area of impact analysis |  |  |
| Background values |  |  |
| Nearby sources |  |  |
| Pollutant based considerations |  |  |
| Attachments |  |  |
| Aqdm-02 Form |  |  |
| **This section is:** |  | |
| Comments on status: |  | |

## **Modeling protocol review by sections – Completed by Air Permit Engineer**

|  |  |  |
| --- | --- | --- |
| **Section name** | **Acceptable/ Unacceptable** | **Deficiencies and/or comments** |
| Modeling purpose |  |  |
| Modeling selection and options |  |  |
| Point sources |  |  |
| Volume sources |  |  |
| Area sources |  |  |
| Paved roads fugitive dust |  |  |
| Nearby sources |  |  |
| Pollutant based considerations |  |  |
| **Attachment:** Aqdm-02 Form |  |  |
| **Attachment:** Nearby Source Emission Calculations (If Applicable) |  |  |
| **General Public Preclusion Plan (GPPP)** |  | Additional comments (optional): |
| Comments on other sections: |  | |
| **This section is:** |  | |
| Comments on status: |  | |

## **Modeling protocol review by sections – Completed by Air Risk Assessor (If Applicable)**

| **AERA form name** | **Acceptable/ Unacceptable/ Not applicable** | **Deficiencies and/or comments** |
| --- | --- | --- |
| **All projects:** | | |
| Deliverable checklist | AERA-01 |  |  |
| Dispersion factor analysis | AERA-03 |  |  |
| Emissions calculations | AERA-05 |  |  |
| Qualitative information | AERA-02 |  |  |
| Cumulative air emissions risk analysis | AERA-19 |  |  |
| AERA certification | AERA-24 |  |  |
| RASS and Q/CHI risk screening spreadsheets |  |  |
| ***If applicable:*** | | |
| Emergency internal combustion engine certification | AERA-04 |  |  |
| Process flow diagram | GI-02 |  |  |
| Facility and stack/vent diagram | GI-03 |  |  |
| Determination checklist for proposed ethanol facilities | AERA-13 |  |  |
| Refined HHRAP-based analysis form | AERA-26 |  |  |
| MPCA Mercury risk estimation method (MMREM) protocol form | AERA-27 |  |  |
| Assessing impacts of mercury release to ambient air | Hg-2003 |  |  |
| Mercury risk assessment spreadsheet | aq9-17 |  |  |
| **Attachments:** |  |  |
| Comments on other materials: |  | |
| **This section is:** |  | |
| Comments on status: |  | |

Overall status of modeling protocol

|  |  |
| --- | --- |
| **This modeling protocol is:** |  |
| Comments on approvable-status: |  |