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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | AQDM-07AQDM results review formAir Quality Dispersion Modeling (AQDM) *(Previously AQDMRRF-01)**Doc Type: Air Dispersion Modeling* |

Acronym information on page 3

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

**Note:** If results are marked not approved, please use the *AQDM-06* form to resubmit. Updated *AQDM-06* forms and updated attachments should be emailed to: 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

Facility information

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tempo AI ID number: |       | AQ facility/permit ID number: |       | Submittal date (mm/dd/yyyy): |       |
| Three-letter modeling facility ID (ex., XEK = Xcel Energy Allen S. King, MEC = Mankato Energy Center, etc.): |     |
| Facility name: |       |
| Facility street address: |       |
| City: |       | County: |       | State: | MN | Zip Code: |       |
| Facility contact: |       | Report prepared by: |       |
| Facility contact phone: |       | Preparer phone: |       |
| Facility contact email:  |       | Preparer email: |       |
| UTM coordinates of facility (NAD83, zone 15 extended **only**): | x =       | m East, | y =       | m North |
| MPCA Air Dispersion Modeler:  |       | MPCA Air Permit Engineer: |       |
| MPCA Air Risk Assessor: |       |

List of files with names/descriptions submitted with modeling results

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| 1. | [ ]  AERMOD input files (\*.inp, \*.adi, \*.ami)[ ]  AERMOD output files (\*.out, \*.ado, \*.amo)[ ]  AERMOD plot files (\*.plt)[ ]  AERMOD post files (\*.pst) – If applicable[ ]  AERMOD event files (\*.evi, \*.evo) – If applicable[ ]  AERMOD miscellaneous/other files (MAXDCONT, SUMTABLE, etc.) – If applicable |
| 2. | [ ]  AERMOD meteorological surface files (\*.sfc) |
|  | [ ]  AERMOD meteorological upper air/profile files (\*.pfl) |
| 3. | [ ]  BPIP-PRIME input files (\*.bpi, \*.pip) |
|  | [ ]  BPIP-PRIME output files (\*.bpo, \*.sum) |
| 4. | [ ]  Terrain file(s) for AERMAP(\*.dem, \*.tif) |
|  | [ ]  AERMAP input files (\*.ami) |
|  | [ ]  AERMAP output files (\*.rou, \*.sou, etc.) |
| 5. | [ ]  Background data files/background concentrations for applicable pollutants (seasonal, monthly, daily, hourly, etc.) |
| 6. | [ ]  Figures for modeling results (\*.jpeg, \*.bmp, \*.pdf) |
|  | [ ]  GIS maps for modeling results (\*.shp) |
| 7. | [ ]  *AQDM-02* form – if applicable (not applicable if changes were not made) |
| 8. | [ ]  Paved Roads Results – If applicable |
| 9. | [ ]  SIL Analysis and Results – If applicable |
| 10. | [ ]  Hourly O3 File – If applicable |
| 11. | [ ]  AERA forms – If applicable |
| 12. | [ ]  Other files and supporting documents (hourly ozone, background files, supplements, etc.): |
|  |  |

Section 1. Modeling review – 30-day substantial completeness determination

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| Completeness review of modeling report by sections |
| **Section and section name** | **Substantially complete/incomplete** | **Deficiencies and/or comments** |
| Files to accompany modeling |  | No comments on this section |
| Section 1: Modeling protocol |  | No comments on this section |
| Section 2: Changes to modeling protocol |  | No comments on this section |
| Section 3: Paved roads fugitive dust (optional) |  | No comments on this section |
| Section 4: Modeling results |  | No comments on this section |
| Section 5: Discussion |  | No comments on this section |
| Section 6: Modeling results figures/maps |  | No comments on this section |
| ***Modeling results substantially complete?*** |  | Date (mm/dd/yyyy): |       |

Section 2. Air dispersion modeler results review

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| Technical review of final modeling report |
| **Review items** | **Acceptable/Unacceptable** | **Deficiencies and/or comments** |
| Are all changes from the protocol adequately described and addressed? |  | No comments on this section |
| Are the model files consistent with the MPCA AQDM-02 spreadsheet accompanying the permit application? |  | No comments on this section |
| Is the effective ambient air boundary described by the general public preclusion plan consistent with the ambient air boundary receptor locations? |  | No comments on this section |
| Modeling demonstrates compliance with applicable NAAQS/MAAQS, SIL’s, and PSD increments? |  | No comments on this section |
| ***This section is:*** |  | Date (mm/dd/yyyy): |       |

Section 3. Permit engineer results review

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| Has the 150-day completeness requirement been waived? [ ]  No [ ]  Yes |
| Technical review of final modeling report |
| **Review items** | **Acceptable/Unacceptable** | **Deficiencies and/or comments** |
| Are all emissions changes from the protocol adequately described and addressed? |  | No comments on this section |
| Are the emission calculations on the AQDM-02 spreadsheet consistent with permitted emissions? |  | No comments on this section |
| Are the emissions on the Nearby Sources Emission Calculations spreadsheet consistent with permitted emissions for those sources? |  | No comments on this section |
| If a general public preclusion plan is required (as noted on form AQDM-05), does the attached plan include a map that clearly displays the ambient air boundary and identifies how access is precluded for each section of the boundary? |  | No comments on this section |
| If a general public preclusion plan is required, are the boundary control strategies identified in the plan adequate? |  | No comments on this section |
| ***This section is:*** |  | Date (mm/dd/yyyy): |       |
| Recommended permit conditions or related items:  | (To be determined) |

## **Section 4. Air risk assessor results review (If applicable)**

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| **Technical review of final modeling report** |
| **Review items** | **Acceptable/Unacceptable/Not applicable** | **Deficiencies and/or comments** |
| Are all changes from the protocol phase adequately described and addressed in the AERA forms? |  | No comments on this section |
| Do the submitted results reflect the methodology described in the AERA forms? |  | No comments on this section |
| ***This section is:*** |  | Date (mm/dd/yyyy): |       |
| Are there any additional recommendations that will be submitted to the MPCA Air Managers? | No comments on this section |

Overall status of results

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| **This modeling results are:** |  |
| Comments on approvable-status: |

Acronyms

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| AERAAERMAP | Air Emission Risk AnalysisAERMOD Terrain Preprocessor |
| AERMOD | AMS/EPA Regulatory Model |
| AQ | Air Quality  |
| AQDMAQDMRRF-01 | Air Quality Dispersion ModelingPrevious Results Review Form |
| BPIP-PRIMEGIS | Building Profile Input Program for PRIMEGeographic Information System |
| MAAQS | Minnesota State Ambient Air Quality Standard  |
| MPCA | Minnesota Pollution Control Agency |
| NAAQSO3 | National Ambient Air Quality StandardOzone  |
| PSDSILUTM | Prevention of Significant Deterioration Program Significant Impact LevelUniversal Transverse Mercator |