



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

TCEQ Modeling Update

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Committee Meeting

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Overview

- Updated 2009 Future Case Modeling
 - Upgraded emissions inventory
 - Upgraded version of CAMx
- 2009 Future Case Sensitivity Tests
 - A combined strategies run was tested with the upgraded future case modeling



Updated 2009 Future Case

- Emissions Inventory Upgrades
 - Emissions changes were made due to corrections in point source emissions and an updated version of the 2005 acid-rain data
 - NO_x in the DFW area was reduced by 1.7 tpd and VOCs increased by 6.5 tpd
- Upgraded Version of CAMx
 - A newer version of CAMx has been available
 - The DFW modeling has been upgraded from CAMx 4.03 to version 4.31
 - Consistent with what is being run for the HGB area



Results

- 1999 Model Performance
 - The upgrade to CAMx 4.31 improved model performance
- 2009 Future Design Values
 - Average change over the nine DFW monitors was -0.81 ppb



Updated Future Design Values

Site	44.fy2009.a1 CAMx 4.03	46.fy2009.a2 CAMx 4.31
Frisco C31	91.2	89.8
Hinton C60	87.6	86.2
Dallas N C63	87.0	85.4
Redbird C402	79.7	79.0
Denton C56	89.6	89.3
Midlothian C94	84.5	84.7
Arlington C57	87.2	86.2
FtW NW C13	87.6	86.8
FtW Keller C17	86.0	85.4



2009 Future Design Values

Monitor	2009 Future Base	2009 Future Base with Controls
Frisco C31	89.8	88.3
Hinton C60	86.2	84.8
Dallas N C63	85.4	84.1
Redbird C402	79.0	77.5
Denton C56	89.3	87.9
Midlothian C94	84.7	83.1
Arlington C57	86.2	84.0
FtW NW C13	86.8	84.6
FtW Keller C17	85.4	84.1



Contributors

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