

Status Report
Four Corners Modeling Study
January 24, 2008

Current Activities

Environ has recently been upgrading the Four Corners 4 km gridded emission inventory information that will be used in modeling the 2005 basecase modeling inventory for the 4 corners region. A detailed summary of that work is attached. As of mid-January 2008 Environ had completed initial runs for January and July of the 2005 baseyear modeling and were conducting some preliminary evaluations of the results. Environ expects to complete at least initial model evaluation work in about four weeks. As the estimated CAMx runtime for the entire year will be about 2 to 3 weeks, it will be several more weeks after that before they complete a final full annual 2005 basecase run.

Given the complexity of the ongoing analysis the modeling workgroup felt that a face-to-face meeting would be beneficial in early March to consider the results of the 2005 runs, and to design appropriate mitigation scenarios and an approach for projecting 2018 basecase emissions. Depending on logistics a one-day workgroup meeting will likely be scheduled for March 2008

2018 Base Year Emissions

EPAs final NSPS regulation for small engines was issued by EPA in late December. These regulations will affect emissions in the 2018 basecase as well as selection of mitigation scenarios, so completion of 2018 inventories was delayed until after 2005 basecase modeling is completed (January 2007).

Mitigation Scenarios

Following the model evaluation task, Environ will run both the 2018 basecase modeling and 5 mitigation scenarios. The four corners policy group (POG) had decided in September 2007 that the mitigation runs would include two scenarios for oil and gas (a low control option and a high option), one for power plants, and one representing high level of controls on all sources, and one mitigation run held in reserve. The modeling workgroup and Environ will soon develop specific emission levels to include in the modeling for each of the above scenarios, however it was felt that it would be better to wait until the 2005 model results are available and the NSPS changes are analyzed so that mitigation strategies can be more effectively targeted.

In addition, Doug /BP were going to try and come up with specific VOC reduction measures that could be incorporated into the high option (scenario 3) mitigation modeling scenarios. (The workgroup had previously suggested a 5-20% VOC reduction for Scenario 3).

Source Apportionment

Ozone and PM source apportionment runs are used to estimate the contribution of selected source groups (where groupings are either by source type and/or geographic region) to predicted ozone and PM concentrations. BP has agreed to fund this analysis. Environ will conduct the source apportionment analysis for O3 and PM on either the 2005 or the 2018 basecase runs (choice to be made based on further discussions) to look at the relative impact of major source categories and locations (both within and outside of the Four Corners area).

Overall Schedule

Anticipate completion of the 2018 base case run in March 2008, assuming model performance and emissions inventory tasks are completed as expected. Source apportionment runs are then expected to take two to three months after which the mitigation scenarios will need to be finalized and run through the model.