

**Southern New Mexico Ozone Study
Response to Comments**

Document: Southern New Mexico Ozone Study Work Plan for the 2011 Modeling Year
Response-to-Comments Dated November 30, 2015

Reviewer: Erik Snyder – EPA Region 6 Date: November 13, 2015			
#	Page	Comment	Response
1		Think it would help to have a table as an attachment maybe or excel file that listed the daily 8-hour maximum monitored for the modeling period (May1st – Sept. 30). This would show that the episode did have some high ozone days and document which days.	Appendix A added to November 30 th version of the document with table of measured daily maximum 8-hour ozone at the monitors in Doña Ana County.
2		Looking at the WRF and CAMx grid, I thought it might be helpful to push the northern grid out a little further into southwestern Utah and southern Colorado. Main benefit is the Farmington-4 corners area would be in the modeling grid and further modeling analyses could be done in that area in future projects, etc. as deemed relevant.	Northern New Mexico and the Four Corners area is covered in the Western Air Quality Study 4-km domain and in the CARMMS study. As these other modeling studies cover the same years and use much of the same input data (IC/BC, meteorology, and emissions) as the SNMOS, we feel that this region has sufficient modeling data and analysis products that do not need to be duplicated by this study.
3		Towards the end, there is not a clear discussion on what the final analysis and deliverables will be. Would recommend adding a short section 7 that just discussed final deliverables, such as a final modeling report that included future DV estimations. Brief discussion on final model evaluations using RRFs and Future DVs, following existing EPA guidance and new draft EPA	List of deliverables added to November 30 th version of the document.

		guidance. If a report is not part of the budget, then maybe just a discussion on final electronic deliverables.	
Reviewer: Gi-Dong Kim – NMENV Date: November 13, 2015			
		It is essential to understand the amount of stratospheric ozone intrusion and ozone migration from other areas. However it doesn't mention as to how to quantify them . Hopefully a final modeling report addresses them.	Ozone transport from other source regions will be quantified by the source apportionment task in this study. Stratospheric ozone comes into the regional model through the boundary conditions, which will be tagged as part of the source apportionment analysis. However, distinguishing between long-range transported ozone and stratospheric ozone is beyond the scope of this study.
		It is helpful to understand conversion rates of ozone precursor species (Nitrogen Oxide, Volatile Organic Compounds, Methane, and Carbon Monoxide) to Ozone for PSD major permit modeling. Hopefully a final modeling report mentions as to how to determine conversion rates.	This request is beyond the scope of this study. While it's doable with the modeling tools, we would need to implement specific modeling configurations (i.e. process analysis) to answer this question. We did not plan for these configurations when scoping this study.