

**Comments from Dr. Roger O. McClellan, 01/06/12**

In my comments to the Ozone Docket and to the CASAC Ozone Panel regarding the Second Draft Integrated Science Assessment for Ozone I made reference to a paper -- "Winter Ozone Formation and VOC Incremental Reactivities in the Upper Green River Basin of Wyoming" authored by WPL Carter and JH Seinfeld. The paper was recently accepted for publication in *Atmospheric Environment* and the abstract is available at:

<http://www.sciencedirect.com/science/article/pii/S1352231011012982>

I believe you will find the paper by Carter and Seinfeld of interest in helping to understand the occurrence of high winter Ozone episodes in the Upper Green River Basin in February and March in the presence of continuous snow cover, low inversions, stagnant conditions in this major gas producing region. The work of Carter and Seinfeld extends the earlier report of Schnell et al. (2009) that is cited in the ISA. The Carter and Seinfeld paper clarifies the role of high surface albedo associated with continuous snow cover. Moreover, the paper again illustrates the complex inter-relationships between concentrations of VOCs and NO<sub>x</sub> and sunlight in Ozone formation and degradation with some episodes being highly- NO<sub>x</sub> sensitive and insensitive to VOCs and HONO, while other sites were sensitive to changes in VOCs and HONO inputs.

Sincerely,

Roger

Roger O. McClellan

Advisor, Toxicology and Human Health Risk Analysis

13701 Quaking Aspen Place NE

Albuquerque, NM 87111

Tel: 505-296-7083

Fax: 505-296-9573

E-mail: roger.o.mcclellan@att.net