

UPDATED CHEMICAL MECHANISMS FOR AIRSHED MODEL APPLICATIONS

Proposal to the California Air Resources Board

OBJECTIVES

Update base SAPRC-99 mechanism to be consistent with current data and theories

Improve aromatics mechanisms to be more consistent with chamber data and other results.

Conduct chamber experiments most needed to reduce mechanism uncertainties

Develop **systematic methods to condense mechanisms** for airshed models (goal to provide practical alternatives to CB4)

Implement **updated chlorine chemistry** in mechanism

Implement updated detailed and condensed mechanisms in airshed model