

Author Response to Referee Comments for **acp-2015-287**:

Response to Referee #1:

We thank the reviewer for their thoughtful consideration of our manuscript. We agree that this case should be used as a reference case for future modeling investigations of the feedbacks between smoke radiative processes and boundary-layer dynamics.

The reviewer had only one request:

"I would only propose to add the scale of wind vectors on Fig.4a."

We have added a scale vector to Fig. 4a to aid in interpretation. The modified figure was posted to the interactive discussion, and replaced the original Fig. 4 in the final manuscript.

Response to Referee #2:

We thank the reviewer for their thoughtful consideration of our manuscript. We hope to follow up on this work with future modeling investigations of smoke-modified boundary layer processes.

Since the reviewer requested no modifications to the manuscript, none were made.

To the Editor:

Since the requested modifications were so minimal we have simply replaced Fig. 4 in the manuscript and not included other mark-ups or changes.