

## ***Interactive comment on “Design and analysis of a spatially heterogeneous wake” by Alayna Farrell et al.***

**Alayna Farrell et al.**

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The submitted manuscript addresses the reviewer’s comments regarding the article "Design and analysis of a spatially heterogeneous wake", and proposes changes to the original manuscript for improvement. Major revisions have been made to the manuscript, including addressing concerns about the derivation and physical inaccuracies of the heterogeneous wake model, adding more details regarding the operation of the heterogeneous model, providing more thorough analysis of model performance, conducting numerous new simulations to measure performance criteria, and much more. After these major revisions, the manuscript has improved immensely in quality and is ready for re-submission.

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The responses to referee comments and the tracked changes to the original article manuscript are attached as supplemental material to this comment.

Please also note the supplement to this comment:

<https://wes.copernicus.org/preprints/wes-2020-57/wes-2020-57-AC1-supplement.pdf>

Interactive comment on Wind Energ. Sci. Discuss., <https://doi.org/10.5194/wes-2020-57>, 2020.

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