Wind Energ. Sci. Discuss., referee comment RC1
https://doi.org/10.5194/wes-2022-10-RC1, 2022

Comment on wes-2022-10

Luis Martinez (Referee)

Referee comment on "Large-eddy Simulation of a Wind-turbine Array subjected to Active Yaw Control" by Mou Lin and Fernando Porté-Agel, Wind Energ. Sci. Discuss., https://doi.org/10.5194/wes-2022-10-RC1, 2022

Review: Large-eddy Simulation of a Wind-turbine Array subjected to Active Yaw Control

By: Mou Lin and Fernando Porté-Agel

Reviewer: Luis A Martínez-Tossas (NREL)

This is a well-written paper with results from LES and beautiful wind-tunnel measurements of wind turbine wakes. The manuscript is in good shape, and I only have some optional recommendations for the authors to consider.

- The images in the text are far (a few pages away) from where they are referenced. This might change with the final formatting of the manuscript, but the authors should try to adjust this whenever possible.

- Line 70 “The actuator line model (ALM) is also a widely used method in LES 70 studies of yawed turbines”
  Comment: Please include the original reference for the ALM: https://asmedigitalcollection.asme.org/fluidsengineering/article/124/2/393/444521/Numerical-Modeling-of-Wind-Turbine-Wakes

- The excellent agreement between measurements and simulations is also influenced by the selection of grid resolution in the simulations. A few comments in the Summary

highlighting the grid resolution and its effect would be useful.

- Were you also able to obtain measurements as a function of height (z/D)? I would expect a similar level of agreement, but it would have been nice to see that.