

Interactive comment on “Establishing a robust testing approach for displacement measurement on a rotating horizontal axis wind turbine” by Nadia Najafi and Allan Vesth

Anonymous Referee #2

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Title: “Establishing a robust testing approach for displacement measurement on a rotating horizontal axis wind turbine” Paper No: wes-2017-49 Authors: Nadia Najafi, Allan Vesth

Dear Editors:

I would like to express that the current manuscript is suitable for publication. There are few minor corrections that must be addressed by the corresponding author: 1) I suggest, that the authors should mention the assumptions and/or limitations of the experimental setup. Could the experimental results be affected by using different materials with less or more flexibility or rigidity? 1) pp. 4, line 7: The selection of the

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distance of 7.5m between the camera and the turbine was a result of a dimensional analysis? How did you come up with this particular distance? 2) In section 4, pp.7-8, I recommend add a flow chart of the tracking algorithm. Is it an open loop or closed loop algorithm? 3) In figure 12, reduce the scale for the y-axis as follows: U_x from 0.08-0.11, U_y from 0.08-0.11 and the mean value from 0.2 to 0.5 4) I suggest that the conclusion should be focused on the most relevant results obtained in the experiments. Details about the experimental setup and procedure should be mentioned in the experimental setup section (pp. 3). Is it realistic to apply the proposed 3D technique to a 3.6 wind turbine? 5) In pp. 14, line 16, the imaging area is supposed to be 2mx1.9m (see pp. 5, line 21) Regards, The reviewer

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