

EE 491 WEEKLY REPORT 10

November 8 - 14

Power system reliability in MISO for high wind/solar levels

Group 23

Client: Midcontinent Independent System Operator

Team Members:

Zaran Claes

Shannon Foley

Matt Huebsch

Shelby Pickering

Ian Rostkowski

David Ticknor

WEEKLY SUMMARY

At the beginning of this week, the team was working on finalizing their ranking system for siting and figuring out issues with getting the PLEXOS license on the sdmay18-24 virtual machine. The team then presented their approach to their client, MISO, at their meeting on Friday, November 9. MISO suggested that the team provides more evidence to support their siting approach, and to possibly consider other factors in the siting that the team had not considered before. The team then spent the rest of the week re-thinking their siting approach and putting PLEXOS on the VM.

ACCOMPLISHMENTS FOR THE WEEK

Name	Accomplishments	Hrs this week	Total
Zaran Claes	-Practiced with PLEXOS to find out how to obtain LOLE from model -Taught other group members how to find -Got clarifications from MISO on how to proceed with given model	10	46
David Ticknor	-Finished all siting for each tech -Created and filled spreadsheet for all siting data	10	63
Shannon Foley	-Installed Plexos on the VM -Worked with Plexos and explained the program to group members	8	64
Ian Rostkowski	-Collaborated with team members to discuss possible edits/changes to be made to the siting calculations -Worked with Shannon and David to become acquainted with PLEXOS	8	54
Shelby Pickering	-Worked on siting solar based on the ranking system developed by the team last week -Met with senior design team and MISO -Worked on deliverables	10	58.5
Matt Huebsch	-Worked on Project Plan Wrote minutes for Meeting 10 and Meeting 11	6	54

INDIVIDUAL CONTRIBUTIONS FOR NEXT WEEK

Zaran Claes – Thanksgiving break being next week, it will be hard to meet up and accomplish anything. Hopefully we find a bit of time to finish up work on the final presentation.

David Ticknor – Next week we will be reviewing all siting parameters as MISO will most likely have a few adjustments needing to be made. The team will need to make sure to get this done in a timely manner, as we are approaching the end of the semester quickly.

Shannon Foley - After Thanksgiving break, the goal is to finish up on loose ends with Plexos, and being sure that it works with the VM. Test the solver so that we know it

Ian Rostkowski – The next week will not be very productive as it is Thanksgiving break and the team will not be in any real position to meet. However, once the break has ended the team plans to finish the PLEXOS goals that were set for the 50/50 wind/solar power grid and finalize all documentation and reports.

Shelby Pickering – Next week is thanksgiving break, but I hope to work on PLEXOS and begin to prepare for our final presentation, which will be only a week and a half after we return from break.

Matt Huebsch - Finish up work on Project Plan and other documents and start working in PLEXOS on the models.