

EE 492: Weekly Report 8

March 25th – March 31st

sdmay19-24:

Power System Reliability in MISO for High Wind/Solar Levels

Team:

Zaran Claes, Shelby Pickering, Matt Huebsch, Shannon Foley,
David Ticknor, Ian Rostkowski

Advisor:

Dr. James McCalley

Client:

Midcontinent Independent System Operator (MISO)

Accomplishments this week

Task:	Group members who contributed:	How they contributed:
Finished creating 50/50 scenarios in PLEXOS	Shelby, Matt	Last week the 30% and 50% were added, and we just needed to add the 100% scenario into PLEXOS following the same method as before.
Re-ran base, 10%, 30%, 50% 50/50 LOLEs and calculated the ELCC for each penetration level	Ian	MISO informed us early this week that we need to achieve the 0.1 LOLE for each of the 6 years in each case, rather than achieving an average LOLE of 0.1 over the 6 years.
Started on NAPS paper	Zar, Shannon	Began researching formats and structure for a scholarly publication. Started creating an outline for scope and content of paper.
Automation Progress	David	Some logic fixes were made. Not much more, see below.
Siting Fix	David	Revised and fixed siting for 75/50 splits for future use. Fixed small issue with 50/50 siting.

Pending Issues

The team noticed that some of the data files were not loading properly and that the LOLEs that have been ran are not useful for our study. This is something the team will be asking MISO about in the next meeting, as we can not seem to figure out the issue.

Plans for next week

Next week the team hopes to figure out and mitigate the issue with the model.