

Group number: May1728

Project title: Impact of High Photo-Voltaic Penetration on
Distribution Systems

Client &/Advisor: Alliant Energy/ Dr. Ajarapu

Team Members/Role: Nat Summitt/Team Leader, Sam Searls/Team
Webmaster, Wyatt Lauer/Communications, Mark Szkodyn and Abdul
Waasay Mirza/New Developments

• **Weekly Summary**

We received the 4 bus hand calculation problem parameters on Friday, September 16th. The group met on Monday, September 19th and Tuesday, September 20th to discuss and finish the hand calculation problem. There was not a meeting with Dr. Ajarapu within the last week, but the next meeting is set for Wednesday, September 21st at 4pm.

• **Past week accomplishments (please describe as what was done, by whom, when)**

- Wyatt Lauer: Updated the listserv to better fit the naming rules of the class. Helped the group with the 4-bus distribution system problem.
- Nat Summitt: Distributed some stuff to look at for a better understanding of the project. Worked on 3 iterations for the 4 bus Delta to Wye problem.
- Sam Searls: Downloaded 4 bus problem, read through distribution power flow chapters, met/worked with group to complete hand calculation and discuss process.
- Mark Szkodyn: Worked on hand calculation of 4-bus Delta to Wye problem with group. Referenced book for help with solving 4-bus problem.
- Abdul Waasay Mirza: Worked on the 4 bus problem with the whole group together to get a better understanding of th Delta to Wye.

• **Pending issues**

- None at this time

• **Individual contributions**

NAME	Individual Contributions	Hours	HOURS
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		<u>this week</u>	<u>cumulative</u>
Mark Szkodyn	Read the chapters over solving distribution power flow in the textbook, met with group to finish hand calculation of 4 bus system, and worked on weekly report with group	3	4
Sam Searls	Read the chapters over solving distribution power flow in the textbook, met with group to finish hand calculation of 4 bus system, and worked on weekly report with group	3	4
Abdul Waasay Mirza	Read the chapters over solving distribution power flow in the textbook, met with group to finish hand calculation of 4 bus system, and worked on weekly report with group	3	4
Wyatt Lauer	Read the chapters over solving distribution power flow in the textbook, met with group to finish hand calculation of 4 bus system, and worked on weekly report with group	3	4
Nat Summitt	Read the chapters over solving distribution power flow in the textbook, met with group to finish hand calculation of 4 bus system, and worked on weekly report with group	5	6

- **Comments and extended discussion**

None at this time

- **Plan for coming week**

- Abdul Waasay Mirza: Finish 4 bus hand calculation problem and meet with the group and Dr. Ajarapu on Wednesday at 4pm to discuss results and next step.
- Nat Summitt: Finish hand calculation problem and meet with the group and Dr. Ajarapu on Wednesday at 4pm to discuss results and next step.
- Sam Searls: Finish hand calculation problem with group and meet with the group and Dr. Ajarapu on Wednesday at 4pm to discuss results and next step.
- Wyatt Lauer: Finish hand calculation problem with group and meet with the group and Dr. Ajarapu on Wednesday at 4pm to discuss results and next step.
- Mark Szkodyn: Finish hand calculation problem with group and meet with the group and Dr. Ajarapu on Wednesday at 4pm to discuss results and next step.

- **Summary of weekly advisor meeting**

N/A: We did not meet with our advisor within the last week.

