

## **EE 491 WEEKLY REPORT 3**

**Date:02/12/2017**

**Group number:** Dec1702A

**Project title:** Algona Municipal Utilities Power System Designs

**Client &/Advisor:** Algona Municipal Utilities / Anne Kimber

**Team Members/Role:** Yuxuan Yuan: Leader; Shengxin Mao: Communication director; Changlin Li: Software master;

### **Weekly Summary**

In this week, we work for three parts. First, we decided that we will visit Algona Municipal Utilities on February 24. We talked with Professor Zhaoyu Wang, Professor Kimber and graduate student Nichelle to choose a date. We need whole day to visit company that is hard to match everyone schedule. Another important thing is that we correct and improve our problem list with the help of Professor Kimber. The third one is that we solved about the public computer that we can use that to analysis our data. We talked with relative people and find a lab room we can use.

### **Past week accomplishments**

- Team Member Yuxuan Yuan: Work for the problem list and talk with relative people. I try to think about the problem as customer and company. And I discuss problem list with Professor Kimber and keep to improve that. And I also check the mission of group member.
- Team Member Shengxin Mao: We had meeting with Professor Kimber in Thursday and decided going to meeting company in 24th in Algona. Because we need a university computer to deal with the data from company and I want to get some help from ETG to find a computer to deal with it. In addition, I talking with a graduate student who gives me the other group contact information.
- Team Member Changlin Li: I searched some teaching videos on YouTube about OpenDSS and start to watching. And I try to find some example to help me understand that.

### **Pending issues**

- Team Member Yuxuan Yuan: In this week, we need finish the final edition of problem list. I will have a meeting with Professor Wang and discuss about that. And I keep to read relative book to learn distribution system.
- Team Member Shengxin Mao: We will figure out how to using openDss and I will contact the other senior design group who learn how to using openDSS from last semester.
- Team Member Changlin Li: I found some videos about OpenDSS on YouTube. But the teaching videos are speaking sound like Spanish or other language. And others are just individual videos for one problem for OpenDSS, not a system teaching videos.
- **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contribution</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Member Yuxuan Yuan	Improve problem list and discuss with Professor Kimber.	5	13
Member Shengxin Mao	talking with ETG and find a lab room to deal with data. talking with professor Kimber	4	10
Member Changlin Li	Met with advisor and found lab to use OpenDSS	3	9

o **Comments and extended discussion**

For this week, we almost finish the basic work before we visit the company. We find a date as comfortable as possible for everyone. And we have a better problem list and find accessible campus computer for our data. We keep communicating with Professor Kimber and graduate student Nichelle. We received a lot of helpful suggestions.

o **Plan for coming week**

- Team Member Yuxuan Yuan: I will meet with Professor Zhaoyu Wang about problem list in the coming week. And i will find some engineering design economy book for the cost analysis.
- Team Member Shengxin Mao: We will meet Professor Kimber in this coming week and we will contact with the other senior design group from last semester.
- Team Member Changlin Li: I will keep searching some online material to learn OpenDSS and watch some videos on YouTube about OpenDSS. And i will try to ask some people who are good at OpenDSS.

#### o **Summary of weekly advisor meeting**

In this weekly advisor meeting, we still talked with Professor Kimber because Professor Wang is busy. We decided that we will visit Algona Municipal Utilities on February 24. And we discussed about our problem lists and Professor Kimber gave a lot of good suggestions and supplements. We fixed and improved our problem list at weekends. In the next weekly advisor meeting, we will keep to discuss about new problem list. We will try to talk about the detail about the trip.