

## **EE 491 WEEKLY REPORT 6**

**Date:**03/05/2017

**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 had our trip to Algona Municipal Utilities with Dr. Kimber and Dr. Wang. We had a two hours meeting to discuss our project. And we observed the real route that we need to upgrade. After the trip, our group start to work with the all possible design plan with the specific require of company. On the same time, we keep to update our website and start to work design document.

### **Past week accomplishments**

- Team Member Yuxuan Yuan: Before the meeting, I tried to read some relative example about the distributed system. In the company meeting, I discussed with Rod, the technology staff, about some specific require of design and some possible route. After the meeting, I finish the all data list that we need in my mind. And I read the design document with my group.
- Team Member Shengxin Mao: We talked with company and finger out what we need to do in our project and we drive in Algona to see each feeder and why current system is really difficult to maintain. Based on the meeting, the line should is underground. in addition, I updated the website and i will write the design document.
- Team Member Changlin Li: In the meeting last Thursday, the electric line support of AMU Mr. Rod draw a picture of AMU EB5 and I copied to my notebook. Also I recorded the design document and seared information about Milsoft.

### **Pending issues**

- Team Member Yuxuan Yuan: Because of the limited time, we didn't talk about the data in the meeting. Our company has almost all data about customers. So I need to

hand in a clearly and completely data list. I finished the first version and wait for the response of Dr. Kimber and Dr. Wang.

- Team Member Shengxin Mao: I will update the website and we will think about several possible plans that could work in our project.
- Team Member Changlin Li: I will looking for more information about OpenDSS.
- **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	Read some paper, discuss with Rod, write the data list	12(Include 6 hours trip)	34
Member Shengxin Mao	update website and thinking about plan	11(Include 6 hours trip)	28
Member Changlin Li	Copy the picture from meeting, know about Milsoft and design document	12(Include 6 hours trip)	28

o **Comments and extended discussion**

Because this is the first time that we meet with company, my group members had some nervous in the meeting. Dr. Kimber helped us to ask a lot questions and Dr. Wang told us some suggestions. We still had a very helpful meeting about the exact goal of project and specific requirement about design.

o **Plan for coming week**

- Team Member Yuxuan Yuan: In the coming week, I will talk with Dr. Kimber and Dr. Wang about the data list and send to company. And I will work on the all possible design plan with my group before the weekly advisor meeting.
- Team Member Shengxin Mao: We will meet with Professor kimber and summary what we get in last week's meeting. Before the meeting, we will have a group meeting to discuss about the design. Then, we will think about how to place our underground line.

- Team Member Changlin Li: We will meet this Thursday with our advisor and I will talk about some problems about OpenDSS and Milsoft to my teammates.

○ **Summary of weekly advisor meeting**

This week we had a company meeting with Dr. Kimber and Dr. Wang. With the help of professors, we received a lot of useful information about the project. And we visit the AKB substation to understand the real work as a power engineer.