

## **EE 491 WEEKLY REPORT 1**

**Date:01/29/2017**

**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;

(All the above information should be there in each weekly report. The format/color scheme etc need not be the same. However, please remove everything that is in bracket from your final submission. These are just part of the template and need not be a part of the report.)

### o **Weekly Summary**

In this week, we had a meeting with Professor Kimber and divide the group. We discussed the goal of the project and what data may we need with Professor Kimber. After the meeting, Yuxuan made an appointment with Professor Zhaoyu Wang and graduate student Nichelle' Le Carrington, currently work with Algona utilities, to understand some detail and suggestions about the project on Friday. Then, we discuss information and assign some missions to everyone.

### o **Past week accomplishments**

- Team Member Yuxuan Yuan: Worked on understanding the whole project, and try to get some suggestions from graduate student Nichelle. Because Professor Wang still travels now, I need to delay the meeting with Professor Wang in February. And try to work on software that need in Project.
- Team Member Shengxin Mao: I went to Algona Municipal Utilities website and search some information about this company and this city. The reason is Professor Kimber told us that it is necessary to go to Algona to communicate about project.
- Team Member Changlin Li: Firstly, I download the software called Open DSS and searched some information about this software because for our project in this semester we need to work on it and finish some work by this software.

### o **Pending issues**

- Team Member Yuxuan Yuan: In the meeting with Nichelle, I know the two main problems with the project. The first one should be a successful distribution system

with the second largest customers. The second one should be an economy analysis report about our plan. We need to consider a lot of factors and results. To be deep design, we need data from the company.

- Team Member Shengxin Mao: We talked with professor Kimber about what the goal that company wants to our team achieve. We do not talk with the company right now and the website not shows more information about this project.
- Team Member Changlin Li: After the meeting, we knew that Open DSS is complicated software to learn but we had to know how to use it for our project. When I finished downloading, I started to learn some very basic knowledge about it such as how to choose circuits by writing codes.

o **Individual contributions**

<u>NAME</u>	<u>Individual Contribution</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Member 1	Meeting with graduate student and assign missions	4	4
Member 2	Searching some background information	3	3
Member 3	Download Open DSS and learn some basic knowledge	3	3

o **Comments and extended discussion**

This project is a challenge for us. Actually, we just touch the distribution system in this semester. We have a few knowledge and experience about that. That is why Yuxuan tries to start our progress early.

o **Plan for coming week**

- Team Member Yuxuan Yuan: Worked on which type of data we need to design

distribution system and economy analysis report. I think I will have a meeting with Nichelle to talk about that.

- Team Member Shengxin Mao: We might need to meet with Professor Kimber soon about schedule and data type and talking with the company in February. Then, we will decide which data we might need for this project.
- Team Member Changlin Li: I will keep learning some more knowledge about OpenDSS and spend some time to practice.

o **Summary of weekly advisor meeting**

The weekly advisor meeting help us to divide group and choose project. Professor Kimber describe the project and told me the schedule of visit company in February.