

## EE 491 WEEKLY REPORT

Date: 03/13/2017

**Group number:** Dec1702B

**Project title:** Re-Conductor or New Construction Transmission Line

**Client:** Musctine Power and Water

**Advisor:** Anne Kimber

**Team Members & Role:**

1. Bob Cohoon (Team Leader)
2. Abdelmagieed Ibrahim (Kay Concept Holder)
3. Jinan Li (Web Master)
4. Chang Sun (Communication Leader)

### Weekly Summary

For this week, we have done certain issues with our design project. We:

- Got our NDA forms back from the client
- Composed the project plan and design document for the whole project.
- Identified the major work on this project for this semester and developed a timeline chart for this semester.
- Set up our website correctly and ready to upload all materials on it.
- Did further research to help us continue with our design project.
- Made an appointment on visiting our client during the spring break.

### Past week accomplishments

**Robert Cohoon:**

- Did research on cable type, including basic parameter of each type of cable
- Did further research on protection of the transmission line (mainly for re-conductor plan)

**Abdelmagieed Ibrahim:**

- Did further research on construction of different types of poles (Including the material of poles, for example, whether to use wooden or metal, the angle of strings, etc.)
- Researched on transmission line structure, including tangent horizontal posts
- Composed the project plan and design doc of the project

**Jinan Li:**

- Dealt with the website issues and got the website work
- Did seg/tension calculations for all types of conductors

**Chang Sun:**

- Composed the project plan and design doc of the project

- Got the NDA forms form the client
- Got the fundamental information about Line 98 from the client
- Did the research on relationship between pole distribution and transmission line construction

### Pending issues

- Robert Cohoon: NA
- Abdelmagieed Ibrahim: NA
- Jinan Li: NA
- Chang Sun:
  - Re-format the project plan and the design doc
  - Get the pole distribution map from the client

### Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>Hours cumulative</u>
Robert Cohoon	Research on transmission lines; Question list for the client	10	28
Abdelmagieed Ibrahim	Meeting with client; Poles load calculation	12	35
Jinan Li	Join the meeting with client	10	28
Chang Sun	Meeting with the client; Ampacity calculation; Meeting record	12	34

### Comments and extended discussion

Since we have determined the processes and major work for the construction plan, we have developed the time line of this semester:

Week	1	2	3	4	5	6	7	8
Research	Research on conductor types							
	Read through materials given by client							
	Research on poles							
	Research on calculation methods							
Analysis of materials		Analyze materials from the client						
			Develop different combinations of conductor and methods					
			Fit in parameters into calculation formula					
Evaluation					Calculate the costs according to research and materials			
						Evaluate combinations and finalize a plan		

### **Plan for coming week**

- **Robert Cohoon:**
  - Read over the project plan and design doc
  - Attend group meeting to get more information about Line 98 from Musctine
  
- **Abdelmagieed Ibrahim:**
  - Visit our client (Musctine Power & Water) and discuss about the construction area, conditions and requirements of the transmission line.
  - Go and see the actual location of the transmission line and the distribution of poles.
  
- **Jinan Li:**
  - Visit Musctine with the team and attend discussions about the transmission line with our client face to face.
  
- **Chang Sun:**
  - Visit Musctine with the team and attend discussions about the transmission line with our client face to face.
  - Compose the meeting record of visiting Musctine (MPW)
  - Upload all documents to our website
  - Re-format our project plan and design doc

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

Our team had a regular meeting with our advisor Anne Kimber this Friday afternoon. During the meeting, we identified our major work for this project to be done this semester and developed a timeline.

We also made the decision on visiting our client during the spring break to see the actual transmission line 98 and the distribution of its poles.

Moreover, we finally got our NDA Forms back from our client and got the right to collect detailed information of Line 98 in order to continue with our design.