

# Team Meeting

4/4/2019  
Library 306C

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|-------------------------|---------------------|
| <b>Type of meeting:</b> | Meeting with Client |
| <b>Note taker:</b>      | Tam                 |
|                         |                     |

**Attendees:** Whole team, Cole, Patrick

**Please read:**

**Please bring:** Laptop

## *Minutes*

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**Agenda item:** Safety Moment

**Presenter:** Chufu

### **Discussion:**

This week, the safety moment was about when you have flat tire.

- If you have spare tire
  - Parking both away from traffic and on a flat surface.
  - Placing bracing material (such as pieces of wood or bricks) behind and in front of a tire
  - Using your vehicle's owner manual to locate your spare tire and jack.
  - Jacking the car up while keeping pressure on the ground .
  - Using the lug wrench, turn the lug nuts counterclockwise to loosen them.
  - Jacking up the car enough so that you are able to slip the tire off with ease.
  - Putting the spare tire on the wheel and place the lug nuts in the correct positions.
  - Tighten the lug nuts with your tire wrench.
  - After driving a few miles it's a good idea to stop and make sure that the lug nuts are still tight.
- If you don't have spare tire
  - Just call the toll truck please, they know what you are supposed to do.

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**Agenda item:** Solar Power Plant / Voltage Drop

**Presenter:** Patrick

### **Discussion:**

- **Solar Power Plant**
  - Patrick went through the Final Array Parameter Tool, and everything was fine. Therefore, the team don't need to change shape of the layout.
- **Voltage Drop**
  - In INV DC\_fuse info tab, the team should use 8.85 A for Max Power Current (IMP) instead of 14.75 A. They must also include the safety factor in the calculations
  - From that, the information in conductors tab will be changed.

- Also, the team need to fix Voltage Drop tab, and just need to multiply safety factor once.
- **Combiner Box**
  - The team asked about the input of combiner box. There are 12 inputs in combiner box, but there are only 8 racks.
  - Patrick said just use 8 inputs.

**Conclusions:**

- The team need to fix Voltage Drop calculations.

**Agenda item:** Man Hour Budget

**Presenter:** Kat and Nur

**Discussion:**

- The team talked about man hour budget of last semester.
  - The team had a total of 625.5 hours last semester
  - With \$100/hr, the cost is \$62,550
- Client agreed with this calculation

**Agenda item:** Grounding Calculation

**Presenter:** Kat, Nur and Tam

**Discussion:**

- The team went through what they did to calculate Em and Es
- Patrick and Cole looked through the values that team had, and there were some values that need to be fixed.
- $Dm = \sqrt{20^2 + 20^2}$  ft
- $Lm = n1*X + n2*Y$ 
  - n1 is number of conductor in x direction
  - n2 is number of conductor in y direction
  - X is length of horizontal rod
  - Y is length of vertical rod
- Patrick will get back to us with a response on the Em voltage.
- Autocad drawing to be fixed.

**Conclusions:**

- The team need to fix Dm and Lm values.
- Patrick will get back with more info

