Week 11 Meeting

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11/12/18

Team Leader: Nur

Other Team Members: Katayi, Ahmed, Chufu, Tam, YJ

Advisor: Dr. Ajjarapu

Safety Moment: Food Safety

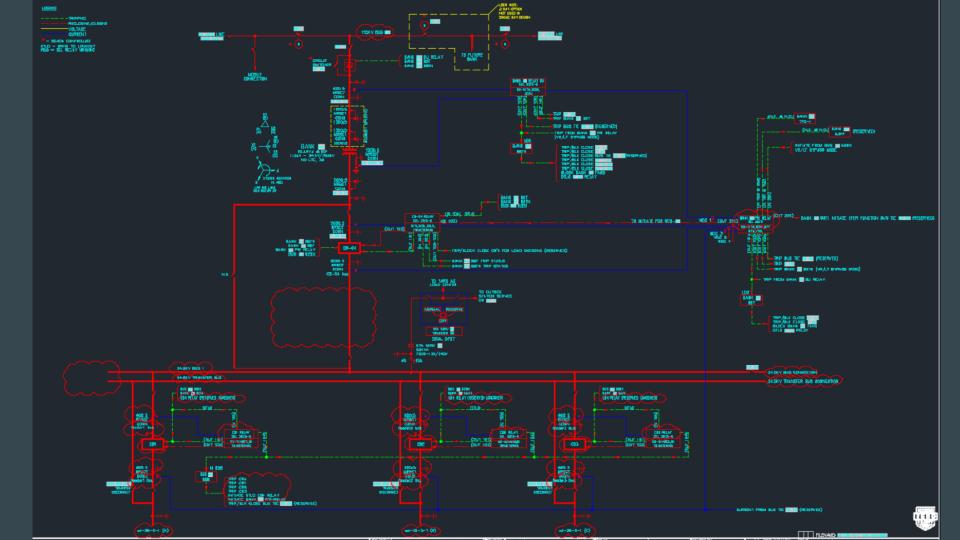
To prevent food-related illnesses, you have to keep hot food hot and cold food cold. This advice is important in warm summer weather, when foods at room temperature can spoil even more rapidly.

Cleanliness is also vital to food safety.
Washing your hand and cleaning food
preparation surfaces, containers and utensils
can also stop the spread of foodborne disease.



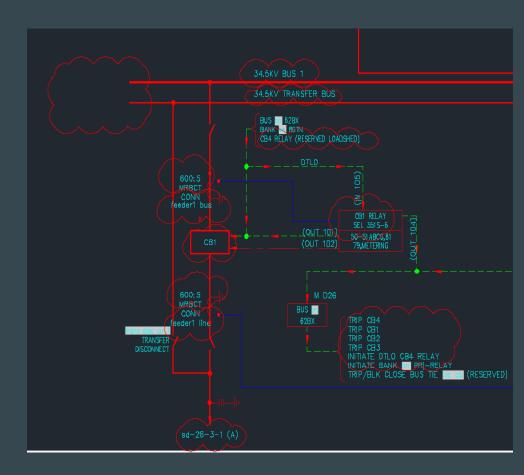
Topics

- Updated Key Protection Diagram
- Updated It Relay Diagram
- Questions



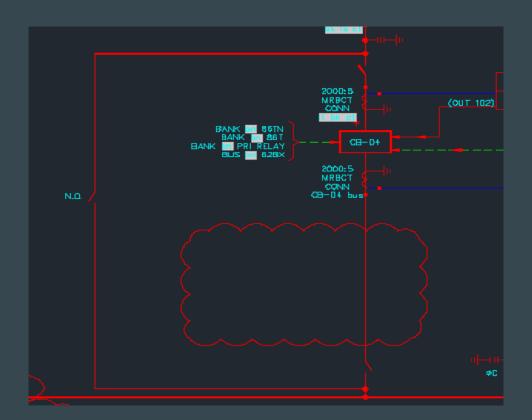
Key Protection - Low Side

- We deleted mobile connections and changed the rating of the buses and the ratio of the MRBCT
- 1. What is the B in MRBCT? What does the ratio mean in 600:5 MRBCT?
- 2. How do we go about replacing SEL 351Ss with the SEL 351Ss with ethernet?



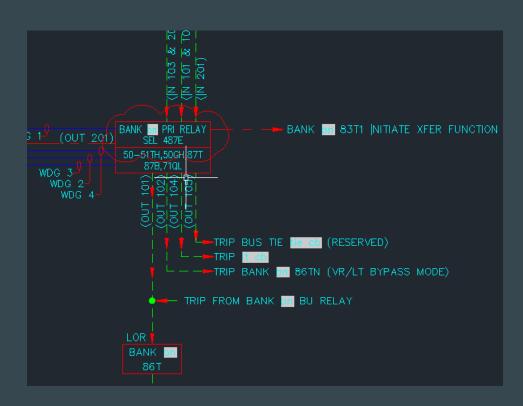
Key Protection

• We deleted the voltage regulator since it's not within our project scope



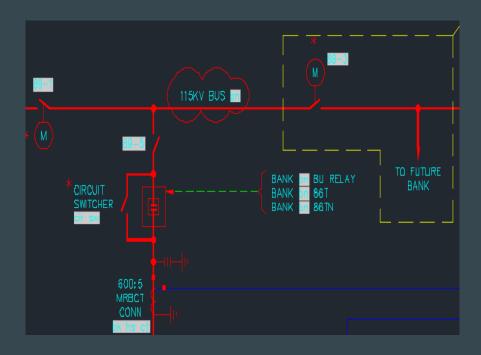
Key Protection

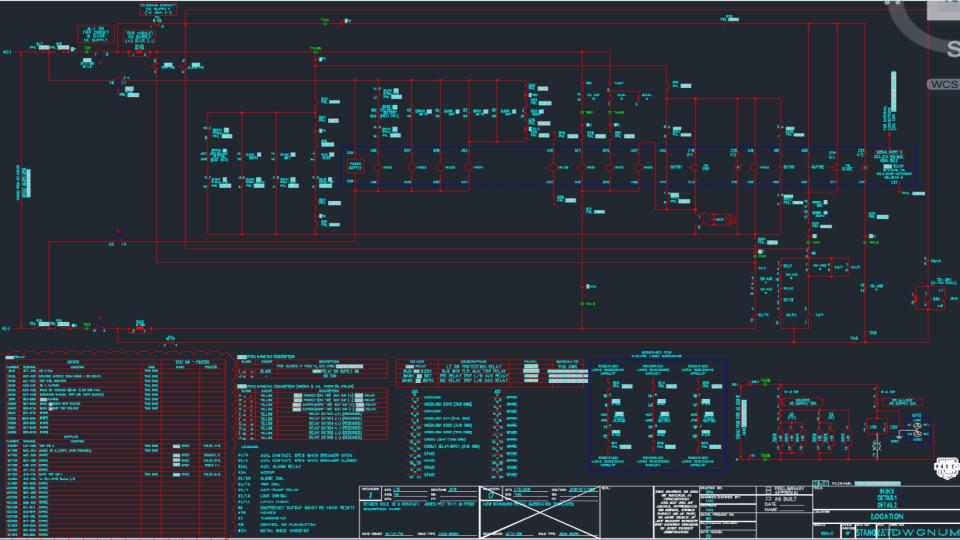
• Added the correct relay type



Key Protection - High Side

• Placed the rating of the bus





It Relay - Input Connections

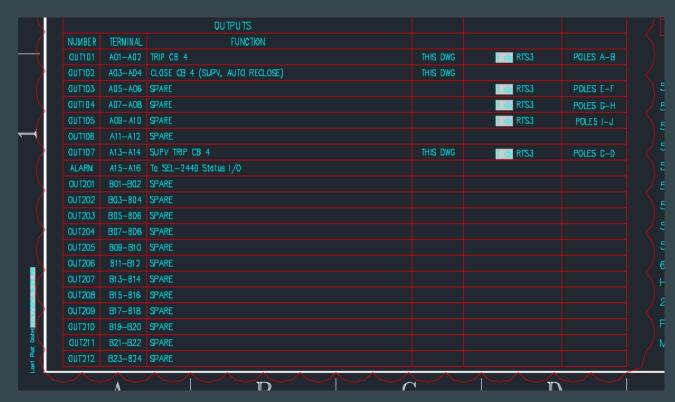
 Reviewed functions of inputs according

to project scope.



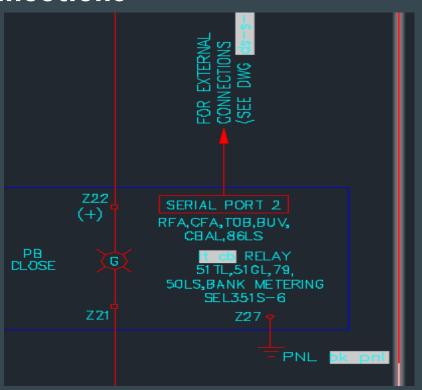
It Relay - Output Connections

 Reviewed functions of outputs according to project scope.



It Relay - Connections

1. In the ds-s-22-4 It rel drawing, do we delete the thing that's connected to PORT 2 since PORT 2 shouldn't be connected to anything? Where is Port 5 and what is a Cisco switch?



Title Block

DRAFTED BY: sd-may19-26	□ PRELIMINARY □ APPROVAL	OWETHU SUBSTATION
DESIGNED/CHECKED BY: CB, EN (B&V)	☐ AS BUILT	115/34.5KV AC SINGLE LINE DIAGRAM
ENGINEER: sd-may19-26	DATE NAME	60 MW SUBSTATION
DETAIL PROJECT NO:	Duko	ESTANCIA, NM
BM/FUNDING PROJECT: - DATE ISSUED: 10/30/2018		NONE 1 STA NO: REV: DWG NO: SCALE; STA NO: REV: DWG NO: Sd-26-4-1 key prof

Drawing List

Drawing List			
Drawing Number/Name	Description		
sd-26-1-1 singlearray	Wiring diagram of a single array		
sd-26-1-1 powerplant	Wiring diagram of the entire solar plant		
sd-26-2-1 collector	Collector diagram		
sd-26-3-1 feeder	Feeder diagram		
sd-26-4-1 key prot	Substation key protection diagram		
sd-26-4-1 it rel	Installation relay diagram		
sd-26-4-1 pri rel	Primary relay diagram		
sd-26-4-1 ethernet port	Ethernet port diagram		
sd-26-4-1 bu relay	Back-up protection diagram		

Action Items From Last Week

- 1. Will we use the single or double bus system? Will we keep the transfer bus?
- 2. What is the mobile connect?

Questions

- 1. What is the B in MRBCT? What does the ratio mean in 600:5 MRBCT?
- 2. How do we go about replacing SEL 351Ss with the SEL 351Ss with Ethernet
- 3. In the ds-s-22-4 It rel drawing, do we delete the thing that's connected to PORT 2 since PORT 2 shouldn't be connected to anything?
- 4. In the ds-s-22-4 It rel drawing, we can find Port 2 but not Port 5. Where is it?
- 5. What is the Cisco switch, and where is it located?