

Meeting minutes 04/12/2021 – 32 minutes

## 2021 Meeting 10

1. Safety moment – Tornado safety practices New technology – Lithium ion battery recycling technology
2. Battery Calc
  - Battery string and cell sizes look good to go
3. Trench fill
  - Looks good so far, needs visual polishing and a report to go with it
4. Trouble with grounding grid
  - We should use  $nd = 1$  for now, maybe get a better answer from a grounding specialist
  - Another factor may be poor soil resistivity
  - Industry also uses fancy automated programs to do grounding calculations usually so that can play a role as well
5. Conduit plan
  - Don't need to show the grounding grid with trench/conduit plan
  - Conduit takes cables from equipment to trench, 40% fill constraint here too
  - Typically just PVC pipe up to 4" diameter
  - Multiple runs of 4" might be needed for large equipment
6. AC Calc
  - Will send it out via email today
  - Lists auxiliary AC load for all items
  - Worst case scenario gives us a 10% margin
  - We need to consider worst case breaker trips like DC calculation (also consider the heating/cooling for different seasons)
  - Battery charger is a load we can size based on our DC calculation
  - The transformer taps off the bus to provide substation power
7. Testing
  - Bus Calc is a feasibility calculation; other calculations are sanity checks
8. Action Items
  - Meeting on Friday to go over some presentation/final documents and get some feedback