

## EE/ CprE/ SE/ CybE 492 -sdmay23-02

### Simulating Cyberattacks on a Power Grid to Determine Potential Impacts

#### Week 5 Report

4/8/23 - 4/21/23

Advisor: Benjamin Blakely

#### Team Members:

- Jake Stanerson – Developer lead
- Noah Peake – Developer lead
- Hrijul Balayar – Tester/ Developer Support
- Michael Gierrek – Developer Support
- Conner Spainhower – Developer Support
- Cole Medgaarden – Tester/Documentor

#### Accomplished Tasks:

- Added in final sections to grid based off of Michaels excel sheet to add in any extra buildings needed. Began final documentation materials for presentation. – Cole
- Finished IOT attack with Noah, and finished main program that wraps the whole thing. Need to quickly add an output writer to a log file to remove clutter in the terminal.- Jake
- Finished up the spreadsheet for all buildings on campus with 3 year, year, monthly, weekly, and daily values. - Michael
- Finished documentation for False Data Injection Attack. Finished IoT attack script with Jake. Beginning to fill in parts of the final report document and presentation. - Noah
- Finished up the shell while cooperating with Jake to do so - Conner
- Hrijul Balayar- Working to finish the IOT device attack documentation. Starting to work on the report and presentation aspect.

#### Pending Issues:

- No pending issues

Team Member	Contribution	Weekly Hours	Total Hours
Jake Stanerson	Finished IOT, main program	5	10

Noah Peake	Finished documentation for FDIA. Finished IoT attack script with Jake. Beginning to fill in parts of the final report document and presentation.	5	10
Conner Spainhower	Grid Creation Shell	3	6
Cole Medgaarden	Task documentation and grid scale improvements	4	8
Michael Gierak	Published Spreadsheet	2	11
Hrijul Balayar	Working to finish the IOT device attack documentation. Starting to work on the report and presentation aspect.	3	6

**Upcoming Tasks:**

- Converging project together and simulating on a larger scale