

**Thesis Schedule:**

1. 'First Draft' thesis to Donnelly and Southergill Week of **Feb 10**.
2. Revised thesis to Committee week of **Mar 9** (pre-spring break).
3. Thesis Defense week of **April 13**.
4. Final thesis and docs to Southergill week of **April 20**.
5. Other tasks:
  - Complete other graduation forms
  - Book room for defense
  - Get EIT references

**Recent Progress:**

1. Work started on Delay Agent
2. Addition of optional delay to tgov1
3. Initial Delay Agent tests
4. Registered for graduation
5. Branch Flow calculation correction

New calculations:

$$I = \frac{V_S e^{j\delta_S} - V_R e^{j\delta_R}}{\sqrt{3}(R + jX)} \quad (1)$$

$$P = \sqrt{3}V_S |I| \cos(\delta_S - \angle I) \quad (2)$$

$$Q = \sqrt{3}V_S |I| \sin(\delta_S - \angle I) \quad (3)$$

Old calculations:

$$P = \frac{V_R V_S}{X} \sin(\delta_S - \delta_R) \quad (4)$$

$$Q = \frac{V_R}{X} (V_S \cos(\delta_S - \delta_R) - V_R) \quad (5)$$

$$I = \frac{|P + jQ|}{V_R \sqrt{3}} \quad (6)$$

6. GitHub updated:  
<https://github.com/thadhaines/>
7. Uploaded to PyPI:  
<https://pypi.org/project/PSLTDSim/>

**Current Tasks:**

1. Work on gov delay scenario?
2. Create daily load cycle agent to read EIA data (hourly forecast and demand values)
3. Solidify test cases for engineering problem
4. Update Code flowchart and finalize code
5. Thesis work
6. Accumulate Portland trip materials...

**Current Questions:**

1. Cases to focus on for thesis?  
gov Vs AGC?  
delays?

