NE 421 Test #2
Take Home: Due Midnight, November 18, 2019

Using YOUR canister and location from the final project, perform the following tasks. Present your response in the form of a draft version of the final NCSE—in the WORD format like ExampleCSE.docx in the Public area. (IMPORTANT: Your submission must be in the form of an email with a SINGLE WORD (or PDF) attachment that is no larger than 3 MB.) No zips or jars, EXCEL spreadsheets, etc.

1. Provide the Cover sheet and Section 1.

2. Provide a draft of the Section 2 description of the process, the equipment, and the location, including:
   - A digital photograph of your canister
   - A digital photograph of your location
   - All process details needed to support the Normal column of your contingency table in Question 4.

3. Revise Section 3 and 4 of the report to fit your situation. (Be sure your quoted USL agrees with your results of Appendix G.)

4. Provide a draft contingency table with all columns included (Normal, Contingency, Controls). Document as Table 5.1 but THAT TABLE is the only part of your Section 5 that I will look at, so don't worry about any of the text outside that table.

5. Provide Appendix G: Using the spreadsheet provided in the public area (Valid2018), perform the following:
   - Put in all the wording of Appendix G.
   - Trim the list of experiments down to the 30-50 that you think are most appropriate for your configuration
   - Assuming a 3% MSM and a 3 sigma bias uncertainty, determine your upper subcritical limit. Document the cases by complete Table G-1
   - Fill out the "Experiments" column of Table G-2 (with the exception that row 5 should read "Moderation: Energy of the Average Lethargy Causing Fission".