**Introduction**

My internship project plan requires me to verify and validate the electrical components for the B2 Space Launch System (SLS) Core Stage Green Run Test Project. The document was sent to me by my alternate mentor, Ms. Dawn Davis. It gave me a better understanding of the requirements of the V&V matrix. For instance, I must verify the power requirements in the System Reference Document (SRD) and match the values in spreadsheets.

**Objectives**

1. Assist in the closure of Measurement, Monitoring and Control System (MMCS) and other electrical requirements in support of the B2 SLS Core Stage Green Run Test Project.
2. Understand project management tools to analyze and control activities/tasks associated with those items performed in support of Item #1.

**Outcomes**

Anticipated contributions to the project consist of successful verification and validation of the test stage and further progression in the overall Space Launch System. The timeline for the project completion will presumably last the entirety of the internship, since there are a numerous amount of components to look over. The expected project deliverables for my mentors is to come to a completion of the verification and validation for the project. The expected educational outcomes for me would be to achieve a greater understanding of NASA’s rocket testing, and the numerous steps and processes it takes in order to accomplish successful rocket launches.

**Summary**

1. Review the B2 SLS Core Stage Green Run Test Project System Requirements Document (SRD), identifying the MMCS and electrical requirements.
2. Review the Stage Controller to SSC Interface Control Document (ICD) identifying the SSC requirements.
3. Review the SLS Core Stage Green Run Facility Requirement Document (FRD) identifying the SSC MMCS and electrical requirements.
4. Perform a gap analysis of the SRD and identify any MMCS and electrical requirements contained in the ICD and FRD that are not in the SRD.
5. Assist electrical engineer in developing and or identifying closure rationale for the MMCS and electrical requirements.
6. Develop and maintain a method for tracking progress with estimated completion dates specifically identifying those items during this performance window.

**Special Thanks to my mentors:** Mr. Barry Robinson and Ms. Dawn Davis. Also, thanks to Ms. Joy Smith in the Office of STEM Management/Verification and Validation planning guidance is contained in NPR 7123.1, NASA Systems Engineering Processes and Requirements; the project System Engineering Management Plan (SEMP) included as Appendix D of the approved Project Management Plan; SOI-8080-0041, Systems and Test Integration; and SOI-8080-0027, E&TD Operations Work Control.