 Roles, Responsibilities, Accountabilities and Authorities (R2A2)

**Chief Engineer**

**Roles:**

* The Chief Engineer provides oversight of engineering activities performed by PPPL and ensures that engineering assurance functions are applied based on a conservative evaluation of risks to the Laboratory.

**Responsibilities**

* **General:** The Chief Engineer establishes and maintains the processes and standards needed to ensure that engineering at PPPL meets the high standards required to meet operational safety, performance, efficiency and regulatory requirements. The Chief Engineer ensures compliance of the PPPL technical output with DOE orders and national standards and provides functional oversight of Technical Authorities.

*Specific responsibilities* are noted as follows:

* + Maintain personal engineering/technical knowledge.
  + Ensure all engineers implement engineering procedures to identify and manage the items assigned to them.
  + Ensure Technical Authorities fulfil their Engineering Design, Work Control, Change Control and Document Management responsibilities.
  + Provide interface management technical input.
  + Identifies the Technical Authorities applicable to each structure, system or component in support of operations and maintenance being done by Cognizant Individual.
  + Defines the technical requirements, including QA/QC, related to engineering activities.
  + Defines engineering processes, procedures, standards and documentation requirements.
  + Advises the Laboratory management on engineering matters.
  + Supports the Laboratory troubleshooting designs of extreme complexity.
  + Is called upon as a technical referee to recommend a design option for a critical system or plant, based on balance between performance and risk.
  + Engages in review and approval of operational envelopes in accordance with PPPL programs and procedures.

**Accountabilities**

* To the Engineering Department Head for the definition of engineering processes, procedures and standards and for the oversight that these are being adhered to.
* To the Laboratory Director and the Engineering Department Head for the definition of the technical requirements, including QA/QC, related to engineering activities.

**Authorities**

* Develops engineering processes, procedures, standards and documentation.
* Identifies the Technical Authorities applicable to each structure, system or component.
* Approves designs, design changes and temporary modifications for A1 Risk Classification items.