

PDR Committee Charge for Preliminary Design Review (~30-50% Design Maturity) for the Low-Level Radio Frequency Control System

The Proton Power Upgrade (PPU) low level RF (LLRF) system is designed to support the transport of 38 mA proton beam to the first target station. While the existing LLRF control systems can support the project goal, parts obsolescence makes it impossible to procure additional systems. Because of this, a replacement LLRF control system will be designed to meet PPU and Second Target Station (STS) requirements.

The purpose of this review committee is to determine if the PPU LLRF control system design, WBS element P.3.4, is at the preliminary design level of completion.

1. Are all specifications, requirements, performance and interface documents identified, reviewed, and at the level of maturity commensurate with a PDR?
2. Are the hardware design drawings sufficiently mature for preliminary design review approval?
3. Is the design team organized and staffed to successfully complete the project?
4. Is the current preliminary cost and schedule reasonable to achieve the planned scope of the project?
5. Is the overall LLRF system at a 30-50% level of completion fir PDR approval?