Preliminary Design Review

Again, the purpose of the PDR is to demonstrate that you are ready to immediately proceed to detailed schematic level design.

If you are the systems engineer, you demonstrate readiness by proving that:

1. You have a complete and detailed functional decomposition of your system, resulting in complete and detailed level 0, level 1, and level 2 (at least) functional schematic diagrams.

2. You have a complete and detailed interface document specifying how each element of the functional schematic diagrams are interconnected.

3. You have a complete and detailed technical specification for each element of the functional schematic diagram.

4. You have a plan for testing and evaluating the system and its functional elements.

5. You have completed any system level analysis required to evaluate and/or demonstrate system level performance.

6. You have identified the high risk elements of the system design, and have constructed a risk mitigation plan.

If you are a design engineer, you demonstrate readiness by proving that:

1. You have a detailed and specific design concept (e.g., circuit block diagram) for each functional element.

2. You have performed any analysis required to evaluate and/or demonstrate the efficacy of these design concepts.

3. You have identified all critical components or tools necessary for accomplishing each functional design element.

4. You have identified the high risk elements of your conceptual design, and have constructed a risk mitigation plan.

If you are the project manager, you demonstrate readiness by proving that:

1. You have a complete and detailed decomposition of your project tasks (i.e., a WBS), resulting in complete and detailed level 0, level 1, and level 2 (at least) subtasks.

2. You have a project schedule that includes all WBS elements, as well as project milestones.

3. You have a project org chart that indicates the responsibility of each team member, including function schematic elements and WBS elements.

4. You have identified the high risk elements of the project plan, and have constructed a risk mitigation plan.

All project documents and plans must be submitted prior to PDR.