**PPS GROUP**

**Core Functions**

The PPS group designs redundant safety interlock systems as standalone systems or systems that are integrated into the existing safety system infrastructure. They provide job orders, requisitions, cost estimates, wire tables/coding sheets, rack profiles and engineering drawings to other shops while scheduling and coordinating the installation of systems. They generate certification procedures and schedule and coordinate system certification when needed. They provide high-level technical service to analyze and solve complex problems while maintaining the integrity of the safety system to insure the safety of laboratory personnel. They are also responsible for integrating BSOICs into the PPS and maintaining the Primary Annunciator System.

The SSRO (Safety Systems Review Officer) coordinates the review of PPS design proposals prior to the modification or implementation of a design and has the responsibility of ensuring that safety systems are properly specified, reviewed, and that the requirements of the various safety and review committees are implemented. The SSRO must be contacted to coordinate reviews of PPS proposals after a specification has been proposed and again after a design package has been generated. The SSRO is consulted when problems or discrepancies occur during certification and reviews the certification with the PPS Group Leader upon test completion.

**Competencies**

The PPS group is intimately familiar with legacy systems and is well suited to design upgrades to existing circuits as well as integrate new systems with existing circuits. They provide knowledgeable personnel to safely certify and troubleshoot PPS systems. The PPS group is familiar with systems that are integrated with the PPS and should be consulted when engineering hardware that is interfaced to the PPS such as stoppers, power supplies, laser shutters, etc. The group is aware of the current requirements for new personnel protection systems and should be consulted when developing specifications for new systems. The group is familiar with complications that may arise when modifying existing systems and must be consulted when considering changing the logic of legacy systems.

**Roles**

The PPS group is comprised of technicians, designers, engineering associates and engineers.

**Technicians** – are responsible for test and repair of components on the bench and in the field, construction and integration of new components, troubleshooting faults in the PPS, certification of PPS areas.

**Designers** – are responsible for updating schematics from markups, designing chassis from engineering schematics, releasing PPS drawings to document control, generating job orders, certification of PPS areas.

**Engineering Associates** – are responsible for engineering upgrades and modifications to existing systems, generating schematics, generating requisitions and job orders, estimating costs, preparing wire tables/coding sheets, modifying rack profiles, coordinating installation, troubleshooting faults in the PPS, performing certifications as the Test Leader.

**Engineers** – are responsible for evaluating hardware for inclusion in the PPS, writing system specifications for new PPS areas, engineering new PPS areas, generating rack profiles and schematics, estimating costs, developing schedules, troubleshooting complex faults in the PPS, performing certifications as the Test Leader.