

Beamline Safety Design Review Steering Committee (BSDRSC) Charter

Purpose

The [Beamline Safety Design Review Steering Committee \(BSDRSC\)](#) oversees pre-installation design reviews of APS beamline and front end systems and components, regardless of who generated the design. The reviews cover all safety aspects of the design, and any other aspects that may affect facility operations.

Membership

Committee membership is determined by function, and overlaps with APS safety committees relevant to beamline / front end design reviews. The standing committee includes the following roles and expertise. Additional subject experts are enlisted as needed for specific reviews.

- AES User Technical Interface (Chair)
- APS Critical Components System Manager (CCSM)
- APS Radiation Safety Shielding Committee for Design Reviews (RSSCDR) Chair
- APS Safety Committee for Design Reviews (SCDR) Chair
- XSD Representative
- ASD Representative
- Quality Assurance
- Safety Interlocks
- Mechanical Engineering and Design
- Mechanical Systems
- Civil Engineering
- Survey & Alignment
- Electrical Engineering
- Pressure Safety
- User Environmental Safety and Health

Method

1. Evaluate design submittals to determine the scope and complexity of the design.
2. As needed: request supplemental documentation; order large format prints; arrange for presentations; and schedule meetings.
3. Determine whether any technical reviews of the design were conducted and, if so, make the technical review documentation available to reviewers.
4. Require a review by the RSSCDR for any new or modified designs of shielded enclosures and radiation safety system components.
5. Charge the appropriate safety committees and/or subject experts to review the design, ensuring all safety aspects are adequately evaluated; for simple designs, a limited scope review conducted by subject experts on the steering committee may be adequate.
6. Assure the depth of the review is commensurate with the complexity of the design.
7. Combine the outcome of reviews by safety committees and subject experts, and reconcile any differences.
8. Provide an advisory report to AES division management summarizing the findings and recommendations from the review.
9. Track any review action items and provide a close-out report to AES division management at or before the post-installation operational readiness review.
10. File the reviewed documents, meeting minutes, and reports, in the APS document management system ICMS.

Frequency of Meetings

Meetings are triggered at the request of AES division management.