



Reviews

Early Procurement Review, 16 August (@Germantown) Director's Review for CD-2, 11-13 September DOE CD-2 Review, 4-6 December

Imaging Beamline Review (ISN, HEXT, WFI) July 17-18

Spectroscopy Beamline Review (RIXS, ASL, MS-H, MS-S) July 19-20

Front End and Beamline Standard Components 24-25 July

Ultrafast Beamline Review 7-8 August

Diffraction Beamline Review 14-16 August

SPX R&D (SPX0) Review 23-24 August

Optics/Detectors Review 21 August

Conventional Facilities Review 21 August

Charge

The review committee is charged to perform the Preliminary Design Review by evaluating the design readiness of the APS-U Front End Components and Common Beamline Components.

- 1. Technical Scope
 - a) Are the designs mature and technically sound to satisfy design specifications?
 - b) Is the design likely to meet performance expectations?
 - c) Have all the major interfaces been identified and incorporated into the design?
 - d) Are all design specifications, requirements, performance and interface documents at the Preliminary Design stage of completion?
 - e) Has Value Engineering been appropriately addressed in the design process?
- 2. Design Management
 - a) Is the design team organized and staffed to successfully complete the project?
 - b) Have all of the major risks been identified and managed?
 - c) Are procurements appropriately planned?
 - d) Have appropriate analyses been performed?
 - e) Is the development of associated drawing packages sufficiently mature?
 - *f)* Is the design effort consistent with the planned procurement strategy and sufficiently mature to allow the start of any identified early procurements of major components?

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Charge (continued)

3. Cost and Schedule

- a) Are the cost and schedule estimates reasonable to achieve the planned scope, and ready to be baselined?
- b) Do these estimates include adequate contingency?

4. ES&H

a) Are all related ES&H aspects being properly addressed?

5. Miscellaneous

a) Have all the previous design review action items/comments been addressed?

Organization / Feedback

- External, expert reviewers
- Lehman style close out/report for each beamline
 - Close out sessions with presenters and management
 - Findings/Comments/Recommendations
 - Written reports expected within a month
- Typical Agenda
 - Beamline Overview Technical Lead
 - Detailed Beamline Layout Engineering Lead
 - Specialized Topic Engineer or Scientist
 - Cost & Schedule Technical Lead with support by Kathy Bailey (PMCS)
- Close out feedback from Imaging and Spectroscopy reviews
 - Many technical comments specific to beamlines
 - Generally stated that designs are sufficient for preliminary design, except:
 - Design specification documents (PRDs, ICDs) <u>need to be signed off</u> on prior to the Director's Review
 - In some cases some major technical choices need to made prior to completion of preliminary design
- Overall the tone of the reviews was very constructive and cooperative

Upcoming Milestones

Input to the EVMS system was frozen last Friday (20 July)

The project is scrubbing and organizing the information (questions will continue, albeit at a slower pace for a bit)

Changes can/will occur, but in a controlled manner

Input to the Preliminary Design Report is Due (effectively now!)

Many Specifications are in the system

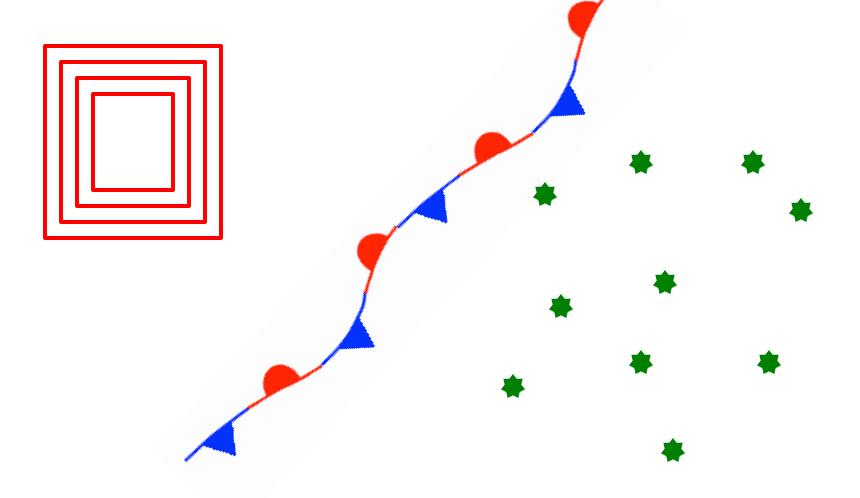
- IF they are on your desk, don't ignore those emails!
- PRDs must be signed by the Director's Review

Director's Review Agenda Frozen

Template

Practice starts week of 13 August

One definition of a Project



Specifications→ Scope

- PRD → Problem Statement
- ICD \rightarrow Boundary Conditions
- ESD \rightarrow Solution

For the Project to make the appropriate CD-2 translation, we need to have the PRDs, the problem statements, formally complete.

The farther we are on ICDs, and ESDs, the better, as this gets us farther and farther towards CD-3 readiness.

The PDR documents our best current solutions to the problems we are addressing.

Summary

The project has done very well getting back up to speed in the past few months \rightarrow thanks for your efforts!

We are on track to our CD-2 reviews, but have considerable work ahead of us.

- \rightarrow Thanks in advance for your upcoming efforts!
- \rightarrow Use the associate project managers to ask for additional help / guidance!

We realize that there is a level of formality that is a change from recent experience

 \rightarrow Necessary to make the translation to our funding agency

Our goal is to complete the upgrade and keep Argonne the premier Photon Science Laboratory