

Recycler BPM Technical "Preliminary Design" Review

Date: Monday Feb. 17, 2003

Time: 9:30 am - noon

Venue: One North, WH1W

Committee:

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- Ralph Pasquinelli (Chair)
- Brian Chase
- Bob Demaat
- Bill Foster
- Sharon Lackey
- Ron Rechenmacher
- Jim Steimel

Charge to the committee

The Recycler BPM Technical Review will focus on the ability of the proposed solution to meet the requirements as set forth in the Recycler BPM Requirements Document. Reference materials for review will include documents describing various elements of the proposed solution and the Requirements Document. Due to the technical nature of the review, the reviewers are requested to familiarize themselves with the available reference material prior to the actual review.

The committee is asked to review and comment on the proposed solution and the implementation plans. The committee is asked to pay particular attention to the following:

- Does the proposed solution satisfy the requirements as put forth in the Recycler BPM Requirements Document?
- If the solution does not satisfy all the requirements, which requirements cannot be met?
- Are issues of long term maintainability adequately addressed?
- Is the procurement and implementation plan realistic?
- Is the implementation plan complete? Does it account for integration into the control system and provide the necessary user interface?

Discussion of any additional areas of concern identified by the committee are welcomed and appreciated. It is requested that a

concise report be forwarded to the Beams Division Deputy Head and the Review Manager within one week of the meeting.

Preliminary Agenda:

- Presentation and Discussion of Charge - P. Bhat
- Requirements Overview - Webber (10 min)
- Philosophy, Plan, and Design Overview - Webber (5 min)
- System Physical Block Diagram - Bowden/Prieto (10 min)
- Dynamic Range/Pre-amp and Transistion Modules - Prieto (20 min)
- DDC Signal Processing Simulation/Examples/Resolution - Schappert (15 min)
- Results of beam measurements (2.5MHz beam structure only) - Choudhary (10 min)

- Break (20 min)

- Calibration System - Zimmermann (10 min)
- Front-end Hardware - Voy (10 min)
- Front-end Software - Voy (15 min)
- Applications Software - Voy (10 min)
- Cost - Webber (5 min)
- Schedule - Zimmermann (10 min)