

EVLA PDR and CDR Definitions

Version 2 - 2001-Jul-30

P. J. Napier

Preliminary Design Review (PDR)

To be held early enough in the Design Phase so that a change in direction is still possible if the need for such a change is identified by the review.

The purpose of the PDR of an EVLA Subsystem is principally to review 3 questions:

- (1) Are the top level performance requirements for the subsystem complete and adequate?
- (2) Have the correct design solutions been selected for study and development during the EVLA Design Phase? Are there important alternate solutions that are not being studied.
- (3) Has an adequate procurement plan been identified for the subsystem?

The PDR will be organized and chaired by the EVLA Division Head responsible for the subsystem. The Review Board will include the following:

- (a) At least 2 experts from outside the EVLA Project. In the event that the Review cannot be scheduled because of difficulty in arranging the attendance of a second expert, it will be acceptable to solicit the opinions of the second expert in writing after his/her review of all of the materials presented at the Review.
- (b) The Project Manager and/or the Project Systems Engineer.
- (c) The Project Scientist or his/her designee.
- (d) At least one representative of any EVLA Division potentially impacted by the design of the subsystem.

Critical Design Review (CDR)

To be held before expenditure of significant funds on the construction of production equipment which will be incorporated into the EVLA.

The purpose of the CDR of an EVLA Subsystem is principally to review 4 questions:

- (1) Are the detailed requirements for the subsystem complete and adequate?
- (2) Will the design selected for implementation meet the requirements?
- (3) Are interfaces to other subsystems defined adequately and completely?

- (4) Has adequate attention been given to the produceability and maintainability of the subsystem?

Meeting organization and attendance to be the same as a PDR.

Review Documentation (All Reviews)

- (1) Minutes will be kept of the Review.
- (2) As the last activity of the Review all Review Board members will be asked to answer the key questions and to identify any important Issues.
- (3) The responsible Division Head must arrange for written responses to all Issues within one month of the Review. These responses will become part of the Review documentation package.
- (4) It is the responsibility of the EVLA Project Manager to determine what further action is required as follow-up to the Issues and Responses.