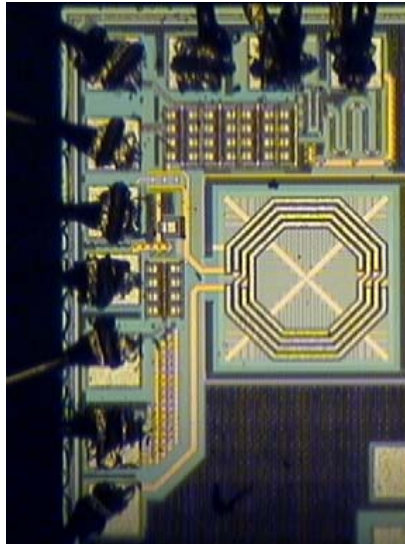


New Connectivity Scheme Schedule & Budget Impacts

Dominion Radio Astrophysical Observatory
Herzberg Institute of Astrophysics
National Research Council



National Research Council
Canada

Conseil national de recherches
Canada

NRC - CNRC

Budget Impact

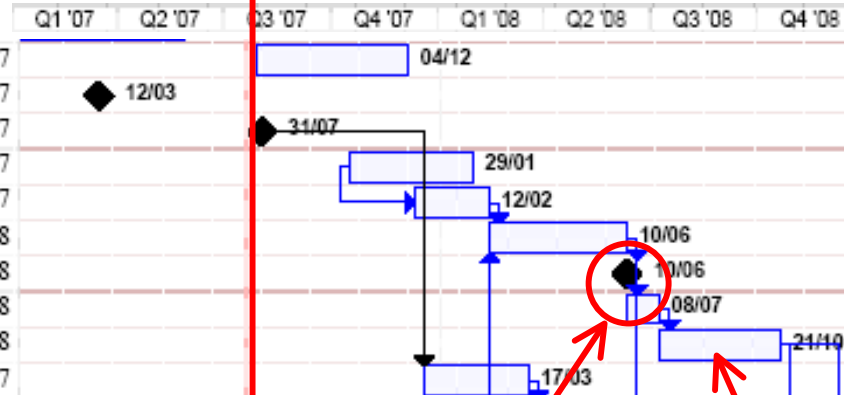
- First order impact will be “positive”:
 - Few baseline boards needed, but each one is more expensive.
 - Net result is saving.
 - In general this puts the project on a healthy, but not flush position.
 - Greater system simplicity means less need for contingency.
 - “Technical Difficulties”:
 - Most involve time (schedule) and/or reduced performance, but possibly some funds.
 - Worst budget hit might be re-spin of boards.
-

Schedule Impact

- Schedule impact of re-design on BB has already been absorbed.
 - Combination of fixes and features for new connectivity scheme.
 - BB Re-spin required anyway.
- Decisions on BB re-design required in advance of Connectivity Review to avoid undue schedule loss.
 - Current BB design can still be used in old connectivity scheme (backwards compatible).
- Technical difficulties will incur some schedule hit.
 - None of the difficulties on the list require complete re-spin of stage 2/3 build.
- Must have immediate feedback on New Connectivity Scheme because we must make final decisions on key components (FPGA's).

“Compressed” Schedule (Best Case)

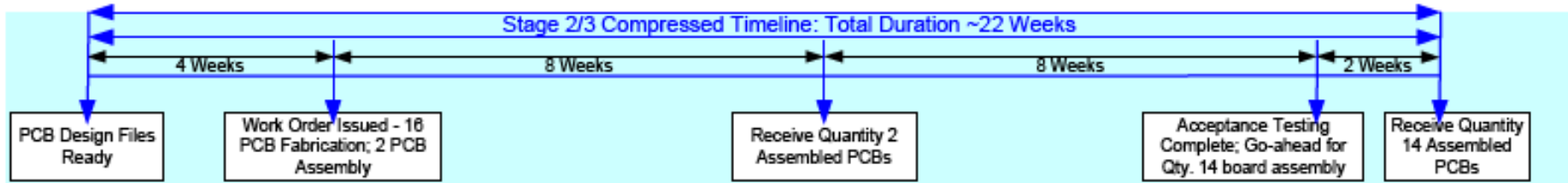
Stage 2 Prototype Fabrication (16 PCB) & Assembly (2 PCB)	27/07/2007
Power Plant Delivered to VLA Site	12/03/2007
New Connectivity Scheme Sign-Off	31/07/2007
Stage 2 Prototype Fabrication Acceptance Testing (2 Assembled PCB)	15/10/2007
Stage 2 Accepted; Go-ahead Stage 3 (Assemble 14 PCB)	10/12/2007
Hardware/Software Integration Testing	13/02/2008
Critical Design Review	10/06/2008
Hardware for OTS Testing Sent to VLA	11/06/2008
On-The-Sky Testing	09/07/2008
High-Speed Inter-Rack Cables Delivered to and Installed at VLA Site	18/12/2007



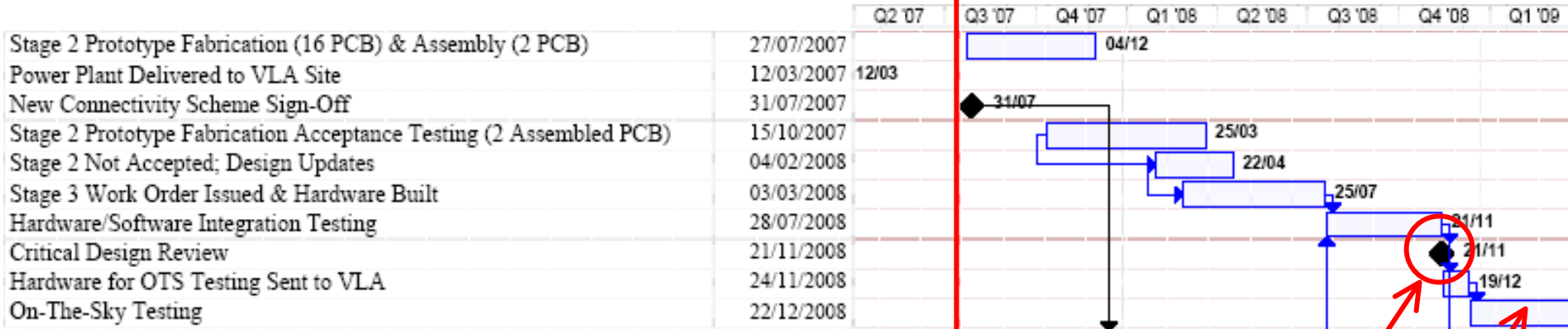
Now

CDR

OTS



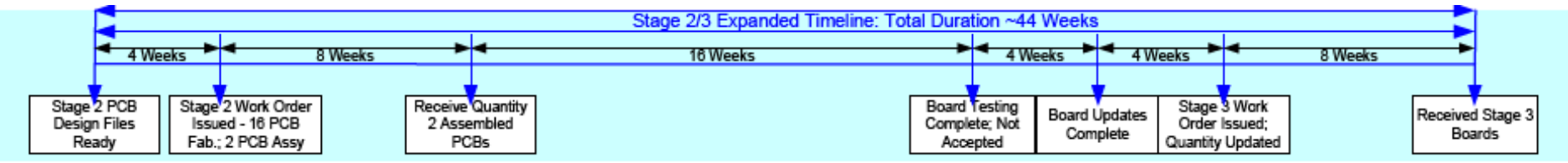
“Expanded” Schedule



Now

CDR

OTS



Note on CDR Timing

- Current plan is to hold CDR
 - Before the OTS tests,
 - After the DRAO “hardware/software integration” tests.
- This provides the CDR committee with the opportunity
 - to review lab performance in its entirety and possibly suggest extensions.
 - to review suggested “critical OTS” tests and suggest alternatives or additional tests.
- CDR committee will be informed of OTS results by email and asked for a quick ratification.
- CDR committee makes recommendations, not final decisions.

End
