



DARK ENERGY
SURVEY

Opto-Mechanical System WBS 1.5

Responses to Reviewers' Recommendations from the Pre-Director's Review of DECAM - Oct 31, 2007

Andy Stefanik

PMG November 16, 2007



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- Line 16: Add design reviews before all major procurements.
 - R&D: Cooling Review; Preliminary Design review of shutter, barrel, filter changer, and filter cell; Review Focal Plate performance and design. Production: Design review for cage and f/8 plans; Design review of Dewar and cooling plant; Review Barrel, Cage, Telescope Simulator, and F/8 Design.
 - Informal, internal reviews that do not appear in the schedule are not acceptable for major procurements.
 - Will define “major procurements” and other criteria that trigger a line item review. Then update the schedule.
 - Review of the RSDs won’t be line items in the schedule.
- Line 17: Include time in the testing cycles for reaction to failed tests, based on risk assessment.
 - Context: We have included some recovery time for failed tests. At what point does scheduled recovery time for failed tests look like schedule contingency?
 - Examples: Process control system. Vacuum system. Barrel machining tolerances and deflection - Our plan has always been to fabricate and test a prototype barrel.
- Line 18: Update notes fields with more info and more consistency in BOE information.
 - Will do this.
 - Early BOEs bear out-of-date WBS numbers.

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- Line 19: Obtain quotes for all large procurements.
 - Barrel: Rule-of-thumb estimate. 1 quotation out of 6 requests. Will obtain another quote.
 - Telescope simulator: Conceptual design in progress. Will have rule-of-thumb estimate for CD-2 review.
 - Systems that need work: Electronics crate cooling, PF cage cooling, and barrel purge gas.
- Line 20: Finalize the TDR Chapter.
 - Met with Wyatt this week to get punch list.
 - 3 day effort to finalize.
- Line 21: Finalize specifications for the corrector alignment system.
 - In process.
 - We've finished initial discussions about the RFI with the 4 bidders.
 - Image Quality Workshop scheduled for the end of November.
 - 2 day effort to finalize the specification.

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