

## Change Request Form

<b>Name of Project:</b> Bicycle Build	<b>Project Manager:</b> Rayner Anderson
<b>Change Request #</b> 001	<b>Change Request Date:</b> 6/10/2013
<b>Change Requested By:</b> David James	<b>Current Project Phase:</b> Design

**Description of Change:** Compress component design schedule by fast-tracking all component design activities to run concurrently instead of sequentially. Crash frame design time from 16 to 8 hours. Combine the first two Component Design Reviews with the last component design review by fast tracking the three reviews.

**Scope Impact:** No impact to scope.

**Schedule Impact:** Reduction of 5 days and 2 hours

Eliminating tasks 10 and 22, Component Design Review, will eliminate two hours from the schedule. Reducing task 9 from 16 to 8 hours will eliminate 1 day from the schedule. Aligning all bicycle component Research and Select tasks to start and stop at the same time will eliminate 4 days from the schedule.

**Cost Impact:** Increase of \$144.00 total.

Eliminating tasks 10 and 22 will shift the same cost to new task 33, Component Design Review.

Aligning all component tasks to run concurrently will not increase or decrease cost.

Reducing task 9 by 8 hours will require the addition of a senior integration engineer to coordinate the resultant concurrent engineering design effort. At \$18.00/hr the added cost of crashing Task 9 is \$144.00 total. This adds 8 hours bringing the resultant frame hours back to 16 hours.

**Quality Impact:** No quality impact

**Possible Risks:**

The three compression actions have a common concurrent engineering risk of establishing component interfaces, dimensions, and fit, form, and function parameters simultaneously. This risk is mitigated by using the first two hours to define the component interfaces and dimensions. Controlling contingency risk is accomplished by adding a senior integration engineer to coordinate fit, form, and function during component research and selection. All component reviews will be accomplished as a single component design review thereby eliminating the possibility of a gap in design review coverage.

<b>Reviewed By:</b>	<b>Position:</b>	<b>Date:</b>
<b>Recommended Action: Approve Or Reject:</b>		