

Report Outline and Reviewer Assignments
For the
Director's Conceptual Design Review of the CMS Detector Upgrade Project
May 14-16, 2013

Executive Summary	<u>Ken Stanfield</u>
<u>1.0 Introduction</u>	
2.0 Hadron Calorimeter - HCAL	<u>Dmitri Denisov</u> * Adam Para
3.0 Silicon Pixel Detector - FPIX	<u>Marina Artuso</u> * Dave Christian
4.0 Level 1 Trigger	<u>Bill Ashmanskas</u> * Eric James Peter Wilson
5.0 Charge Questions	
5.1 Are the science goals and physics requirements clearly stated and documented? Have the science goals and physics requirements been adequately translated into technical performance requirements and specifications?	<u>Each Subcommittee</u>
5.2 Is the design technically adequate? Is the design likely to meet the technical requirements needed to carry out the scientific goals?	<u>Each Subcommittee</u>
5.3 Can the design be constructed, inspected, tested, installed, operated and maintained in a satisfactory way?	<u>Each Subcommittee</u>
5.4 Is there adequate supporting documentation to support the conceptual design and the transition to developing the preliminary design?	<u>Each Subcommittee</u>
5.5 Are the risks (on technical, cost, and schedule basis) of the selected base design approach and alternatives understood and are appropriate steps being taken to manage and mitigate these risks? Have areas been identified where value engineering should be done? If value engineering has been performed is it documented?	<u>Each Subcommittee</u>
5.6 Are the project organization and lines of responsibility clearly defined and sufficient to ensure the successful engineering and design of the project? Are the design interfaces between the US CMS Upgrade Project and the International CMS Upgrade at CERN understood and well defined to ensure a coordinated effort and an integrated design? Is there a reasonable plan in place for implementing configuration management to ensure changes to the technical requirements/specifications are controlled and communicated to all affected groups?	<u>Ken Stanfield</u> All

Note: * Indicates Subcommittee Lead and integrator of write-ups
Underlined names are the primary writer.