

**Report Outline and Reviewer Assignments
for the
Director's Progress Review of CMS Phase 2
September 17, 2015**

Executive Summary	<u>Jim Strait</u>
1.0 Introduction	
2.0 Technical	
2.1 Trigger	<u>Myron Campbell*</u> Jonathan Lewis
2.2 Tracker	<u>Anadi Canepa*</u> Doug Glenzinski
2.3 Muons	<u>Dmitri Denisov *</u> Tom LeCompte
2.4 Calorimeter	<u>Jose Repond*</u> Adam Gibson-Even
3.0 Cost and Schedule	<u>Bill Freeman*</u> Ruben Carcagno
4.0 Management	<u>Jim Strait*</u> Dan Green
5.0 Charge Questions	
<p>5.1 Design and Scope. Is the scope of the preliminary proposed US contributions well-aligned to the overall upgrade plan for CMS, and consistent with the goals outlined in the Particle Physics Project Prioritization Panel(P5)? Has the project identified a reasonable scope for which the DOE will be responsible, considering the early stage of the project planning? Have the performance requirements been defined, or is there a credible plan for doing so? Is there an adequate plan for independent design reviews? Are the designs described in the CMS Technical Proposal adequately developed to support the preliminary cost and schedule estimates? Is the R&D needed to design the upgrades well coordinated, funded at the appropriate level, and credible? Are the projected resources sufficient to complete the designs and R&D, and are these resources likely to be available when needed?</p>	
<p>5.2 Cost and Schedule. Are the cost and schedule estimates at a level consistent with the current status of the project? Are the cost and schedule estimates credible and realistic, and is the final project likely to fit within the proposed cost range? Is the proposed US scope of work consistent with the projected available budget given the DOE preliminary profile and a likely NSF contribution and profile? Does the scheduling strategy fit with other major projects at Fermilab?</p>	

<p>5.3 Management. Are the management teams, including partnering institutions, sufficiently defined and staffed considering the early stage of the project, and do they possess the requisite expertise and experience? Is the management team appropriately organized and staffed to initiate the CMS Phase 2 upgrade planning activities? Have the systems for managing interfaces between stakeholders been defined and are they appropriate? Is there a plan to develop management plan documents that are sufficient to manage the program? Is procurement planning sufficiently detailed and coordinated across the organizations involved for this stage of the project?</p>	
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Note: * Indicates Subcommittee Lead and integrator of write-ups
Underlined names are the primary writer.