

## Review Approval Form

Type of Review: PDR

Project Name: TeraPixel APS for CALICE

Documents Reviewed
<p>Project Specification            Financial Summary            Project GANNT chart            ASIC1 Design GANNT chart            Technical Specification            Sensor Testing Specification            Project Management Plan            Risk Management Plan            Stakeholder Plan</p> <p>Copies of all review documents, agenda and minutes are held on PDR web site:  <a href="http://www.hep.ph.ic.ac.uk/calice/maps/pdr/pdr.html">http://www.hep.ph.ic.ac.uk/calice/maps/pdr/pdr.html</a></p>
Comments
<p>Agreement that project should span both ASIC runs, therefore the review before first submission is an IDR, and the spec-signoff review before the start of ASIC2 design work is also an IDR.</p> <p>A test report for each ASIC should be added as deliverables</p> <p>Pixel recovery after very large signals was raised as a concern: Paul will calculate probabilities – may require a change to the technical spec depending on findings.</p> <p>Optional test structure of DAC design was discussed – it was felt that if possible a test DAC on ASIC1 reduces risk, but current gantt chart does not allow time for this, and ASIC1 submission should not be further delayed. A DAC test structure will be considered if the design phase is ahead of schedule, or the contingency is not used.</p> <p>It was asked whether the individual sub-arrays of different pixels could be powered down to evaluate power consumption of each. This is not currently in the spec: The main current consuming portion of the pixel is the comparator, that will be implemented separately as test structures at the edge of the chip, so current consumption of these could be measured, so it was decided unnecessary to add additional sub-array power-down as a key requirement to the spec.</p> <p>Minor changes to docs, will be signed at next meeting (17<sup>th</sup> May 2006).</p>

**Approval:** emails indicating approval are an adequate substitute for hardcopy signatures

**Review Report agreed**

Group Leader (sign/date) as required by the Project Management Plan

Customer (sign/date) as required by the Project Management Plan

Others – as stated in the Project Management Plan

**Review Report agreed and any changes incorporated**

Project Manager (sign/date) always required