

MVD Status

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**Detector Council Meeting
November 15, 1996**

**Recent Progress
Milestones
Short-term goals
Issues and Concerns**

Recent Progress - Mechanical

Complete designs

Cooling system, motherboard, cables

Complete to some level

Develop assembly and installation procedures

Much progress - "final" draft

Preliminary Design Review

Complete

Finalize silicon strip detector design

Complete

Finalize pad detector design in September

Pending arrival and testing of both standard
and double metal prototypes

Ongoing...

Additional Mechanical Progress

Finite element analysis of rohacell cage
Addressed stress levels at Si/glue joint

Completed Rohacell environmental studies
Long-term studies continue

Investigated rad-hardness of Rohacell

Finite element analysis of air cooling with
updated MCM (size, die size, plenum
dimensions, power levels) 20oC @ 9m/s
Currently machining components for
full-system test

Draft of MVD lift table proposal

Recent Progress - Electronics

Analysis of beam test data

Further studies with laser station

Finalize input for final ASIC development

In progress- nearly finished

Design TGV5 tiny

Rework discriminator threshold, add variable feedback resistor

Submit for fab in mid-July

Submitted in October

Design and procure preprototype MCM

Design now, fab in Sept/Oct

Will begin die testing using probe cards

*Design complete, untested die,
submitted in October*