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# ATLAS PIXEL SYSTEM FLEX HYBRID SCHEDULE

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# Flex Hybrid Prototypes

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- **1st Prototypes**
  - ◆ No optical connections on V1.0
  - ◆ Flex v1.0 and V1.x
  - ◆ Modules mounted on PC boards for power/signal routing
  - ◆ Hand-crafted assembly/manual wire bonding
- **2nd Prototypes**
  - ◆ Optical connection possible
  - ◆ Flex v 2.0 and 2.x
  - ◆ Power connection via “pigtail” possible
- **3rd Prototypes**
  - ◆ Optical connections
  - ◆ Flex v 3.0 (hopefully preproduction)
  - ◆ Power connection via “pigtail”
  - ◆ Preproduction assembly tooling/automated wire bonding

# Baseline Milestones vs Current

Milestone	Baseline	Current
Complete 1st prototype design	Sep-1-98	Mar-15-99
Compl Fabr/Assy of 1st proto	Jan-14-99	Jul-15-99
1st prototype design review	Feb-18-99	Feb-20-99
Complete tests of 1st prototypes	Apr-15-99	Sep-17-99
Select hybrid type	Apr-15-99	Feb-22-99
2nd prototype design review	Apr-28-99	Jun-15-99
Complete 2nd prototype design	May-25-99	Aug-15-99
Complete tests of 2nd prototypes	Feb-8-00	Jun-15-00
Select hybrid prod vendor(s)	Feb-8-00	Jun-15-00
3rd prototype design review	Jul-10-00	Jul-10-00
Complete 3rd prototype design	Aug-4-00	Aug-4-00
Complete tests of 3rd prototypes	Oct-24-00	Jun-15-01

# Explanations of Changes

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- **Complete design & tests of 1st prototypes**
  - ◆ **Tests of modules with hybrids v1.0 and with v1.x will continue through test beam period in 1999. Did not anticipate using v1.x hybrids in baseline schedule.**
- **Complete design & tests of 2nd prototypes**
  - ◆ **Second prototypes will also continue to be tested during the 2000 test beam period. Did not anticipate using v2.x hybrids in baseline schedule.**
- **Complete tests of 3rd prototypes**
  - ◆ **Tests of modules with hybrids v3.0 and rad-hard electronics will continue during test beam period in 2001.**