Liquid Argon Calorimeter

Atlas "level 1" milestones	***Baseline***	***Expected***
Note – Atlas milestones are ordered by sub-system		

BARREL SYSTEM

Barrel ready for installation	***July 2003***	
Cryostat		
Contract award	Sept 1998	Aug 1998
Start of cold test (B180)	Nov 2002	
Feedthroughs		
Start of FT fabrication (serie)	April 1999	Sept 1999
PS detector		
First batch assembled and tested	April 2000	
EM calorimeter		
Beam test (module-0 partly equipped)	Sept 1998	Nov 1998
Beam test (module-0 fully equipped)	April 1999	Aug 1999
Absorbers		
Start Absorber fabrication (serie)	Oct 1998	Mar 1999
1024 Absorbers produced (serie)	April 2000	
End of Absorber Fabrication (serie)	Aug 2001	
Electrodes		
All electrodes produced (serie)	Jun 2001	Dec 2001
Modules		
M1 assembled and warm tested	April 1999	Feb 2000
M16 assembled and tested	Aug 2000	
M32 assembled and tested	Dec 2001	

Liquid Argon Calorimeter

Atlas "level 1" milestones	***Baseline***	***Expected***
Note – Atlas milestones are ordered by sub-system		

ENDCAP SYSTEM

Cold tests done AE(C)	April 2002	July 2002
Cold tests done AE(A)	Nov 2003	
AE(C) ready for installation	***Oct 2003***	
AE(A) ready for installation	***Jan 2004***	
EC Cryostats		
Contract award	Sept 1998	Jan 1999
Feedthroughs		
Start of FT fabrication (serie)	April 1999	Sept 1999
PS detector		
Start AE(C) module fabrication	April 1999	
Start AE(A) module fabrication	April 2000	
EM detector		
Beam test (module-0 1st run)	Aug 1998	Sept 1998
Beam test (module-0 2nd run)	May 1999	Oct 1999
Absorbers		
Start fabrication absorbers	Dec 1998	May 1999
1/2 of absorbers stacked, folded and cured	May 2000	
End fabrication absorbers	Sept 2001	
Electrodes		
All electrodes produced (serie)	Oct 2001	Jan 2002
Modules		
Module 1 ECC assembled, warm tested	Mar 1999	Feb 2000
Module 8 ECC assembled, warm tested	June 2000	
Module 1 ECA assembled, warm tested	Aug 2000	
Module 8 ECA assembled, warm tested	Feb 2002	
HEC Detector		
Modules		
Beam test 97 (Module 0)	Nov 1997	Nov 1997
Start production modules AE(C)	Oct 1998	Mar 1999
16 wedges (1F+1R) ready at stacking sites	Dec 1999	June 2000
Start production modules AE(A)	June 2000	Dec 2000
16 wedges (1F+1R) ready at stacking sites	June 2001	Dec 2001
Cold electronics		
Validation after PRR	May 1998	June 1998

Liquid Argon Calorimeter

Atlas "level 1" milestones	***Baseline***	***Expected***
Note – Atlas milestones are ordered by sub-system		
FCAL Detector		
FCAL1 Beam Tests (Module 0)	June 1998	
FCAL2 Beam Tests (Module 0)	June 1998	
Start of module production	June 1999	
FCAL1(C) and FCAL2(C) produced	June 2000	Dec 2000
All modules constructed	May 2001	Dec 2001

PROXIMITY SERVICES

Cryogenics components		
Tendering done	June 1999	Mar 2000
Cryolines		
End of design (B180)	Sept 1999	
End of installation B180 – EC(C)	Jan 2001	
Instrumentation and controls		
End of fabrication/integration B180 – EC(C)	Jan 2001	
Contract award (UXA15)	Sept 2001	
Monitoring equipment		
Control elements ready for integration in B180	June 2001	

ELECTRONICS

Front end electronics		
EM: Qualification of Mod.0 electronics (Crate/FEB/Calib/TTC)	Nov 1998	
End of qualification procedure – Freeze design and parts	June 2000	
Two full crates of FE electronics produced	June 2001	
All FE electronics available	Oct 2003	
Rod electronics		
Order Atlas prototypes	June 2001	

INTEGRATION AND TESTS (B180)

Cryogenics		
End of design – Start installation	June 1999	Jan 2000