

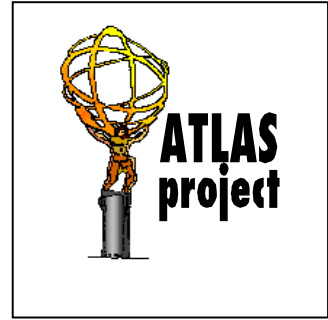
CERN-RRB-2008-033

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ATLAS Resources Review Board, April 15, 2008



## **2007 - 2008 ATLAS Baseline and Cost to Completion Budgets**



CERN-RRB-2008-033

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ATLAS Resources Review Board, April 15, 2008

For RRB approval

## **Part 1**

# **Closing Report for 2007 ATLAS Baseline and Cost to Completion Budgets**




# Introduction

*The ATLAS management, supported by the ATLAS Executive and Collaboration Boards, kindly invites the RRB to approve the final baseline and cost to completion payments for 2007.*

The RRB approved the year 2007 baseline budget for construction activities in October 2006, amounting to 12.9 MCHF in commitments and 13.2 MCHF in payments (CERN-RRB-2006-071). The proposed budget levels for cost to completion (CtC), composing of C&I (Commissioning and Integration) and CC-B (Construction Completion Category-B), were also endorsed by the RRB at 0.7 MCHF and 1.6 MCHF in total, respectively. The budget planning and reporting for the cost to completion payments is in line with the Completion Plan (CERN-RRB-2002-114 rev.). Updates were provided in April 2007 (CERN-RRB-2007-018) and in October 2007 (CERN-RRB-2007-071).

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BASELINE BUDGET  
REPORT ELEMENTS

-  Activity Description
-  Budget Evolution
-  Table References

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## 1. Baseline and CC-A Budget for 2007

The initial budget estimates for 2007 were updated in April and October 2007, respectively. Final baseline and CC-A budget figures in 2007 amounted to 15.4 MCHF for commitments and 15.1 MCHF for payments. The increase in the sub-systems (notably in the TDAQ) by 4 MCHF w.r.t original plans reflects the activation of the available deferral funds (reported separately in Table 16).

**Table 1** shows the 2007 ATLAS baseline budget evolution, CC-A is also included for the Common Projects.




*Table 1. Evolution of the 2007 ATLAS Baseline and CC-A Budget (MCHF)*

Budget Evolution	Sub-systems		Common Projects		Total (MCHF)	
	Comm.	Paym.	Comm.	Paym.	Comm.	Paym.
2007 Budget (Oct '06)	5.1	5.4	7.8	7.8	<b>12.9</b>	<b>13.2</b>
2007 Update (April '07)	8.6	5.9	8.1	14.6	<b>16.7</b>	<b>20.5</b>
2007 Update (Oct'07)	7.9	4.7	8.1	14.6	<b>16.0</b>	<b>19.3</b>
2007 Actual	9.2	4.0	6.2	11.1	<b>15.4</b>	<b>15.1</b>

Details by system/sub-detector and Funding Agencies are presented in **Tables 2 to 4**.

In **Table 3** it is observed that while Common Fund project payments reached 11.1 MCHF, contributions from Funding Agencies amounted to 5.6 MCHF, only. The resulting budget balance (-5.5 MCHF) is treated as part of the global budget position showed in Table 17.

A summary of all CORE expenses since 1995 until the end of 2007 is presented in **Table 5**, excluding costs to completion. Details about the present status of contributions made to the Common Projects by Funding Agencies can be found in document CERN-RRB-2008-032.

<b>C &amp; I B U D G E T</b>	
<b>R E P O R T E L E M E N T S</b>	
	Activity Description
	Payment Report
	Table References

## 2. Commissioning and Integration (C&I) for 2007

The concept of C&I was introduced in October 2001 (ATLAS RRB-D 2001-121). C&I activities comprise tasks before the construction phase is completed, taking place (mostly) outside the ATLAS Pit. The C&I costs stem from the ATLAS strategy of decentralizing assembly and integration tasks in existing facilities at CERN, initially chosen to minimize surface building costs at Point 1, and from the use of technical services now charged to the Collaboration. The C&I cost estimates amount to 21 MCHF in total (including hired institute manpower) following a scrutiny process launched by the RRB Chairperson (CERN-RRB-2002-047). C&I does not include test-beam activities which are part of the Maintenance and Operation (M&O) framework (CERN-RRB-2002-149).

In its October 2006 meeting, the RRB accepted the proposed C&I budget of 0.7 MCHF for payments (CERN-RRB-2006-071), it being understood that Funding Agencies were not obliged but encouraged on a best effort basis to contribute their calculated share of these costs as shown in Annex 2 of that document. Moreover, it was understood that ATLAS can make well documented cash displacements from its baseline resources (such as deferred money due to staging) to match any eventual gap between the incurred payments and actual income.

The final payments for 2007 were recorded at 0.5 MCHF in Category-B with open commitments worth 0.2 MCHF. There were no in-kind contributions made. The received contributions amounted to 2.0 MCHF. In Category-A an old outstanding commitment was settled (5 kCHF).

The overall positive cash balance (+ 1.4 MCHF) contributed to the global budget balance is shown in Table 17.

For system-specific items (Category-B), commissioning of the cables and connections for Inner Detector sub-systems continued. The commissioning of the electronics for both the LAr Calorimeter and the Tile Calorimeter continued at Point 1. For the Muons, commissioning of the remaining chambers proceeded.

More details of the payment breakdown per system are shown in **Table 6** and contributions made for 2007 by Funding Agency, including both cash and in-kind contributions, are shown in **Table 7**.

CC-B BUDGET	
REPORT ELEMENTS	
Activity Description	
Payment Report	
Table References	

### 3. Construction Completion (CC-B) for 2007

The CC-B costs are related to the completion of the ATLAS detector systems. CC-B includes tasks and items missing from the original cost estimates as well as cost increases associated with supply contracts. The breakdown of these costs is given in the document CERN-RRB-2002-114 (Annex).

In October 2006, the RRB accepted the proposed, remaining CC-B budget of 1.6 MCHF before carry-over. In October 2007, the CC-B budget was updated to 3.1 MCHF.

The final CC-B payments in 2007 amounted to 3.3 MCHF with no remaining open remaining commitments.

For the Inner Detector, the main CC-B activities in 2007 focused around completing and testing electrical and cooling components (tooling, use of test stations, cabling, related infrastructure). It should be noted that solving the technical difficulties in the Inner Detector, as reported earlier (CERN-RRB-2007-075), resulted in an over cost of 0.8 MCHF, over and above the agreed budget envelopes. In agreement with the Funding Agencies concerned, and in consultation with the RRB M&O Scrutiny Group, a corresponding financial plan was put in place in 2007 for repairing the faulty heating elements. Some 0.2 MCHF of these extra costs appear in the present reports but are compensated by corresponding amount of income. The remaining additional costs are dealt with separately.

In the Tiles and the LAr replacement of power supplies and related electronics was the main focus. Provisions worth 0.9 MCHF were made in the LAr for low-voltage backup power supplies to plan for timely delivery of replacements. In the Muon systems, resources were allocated to finishing the production of big wheels with Technical Coordination as well as connecting cables to the remaining Muon chambers. There were no in-kind contributions.

**Table 8** summarizes the Category-B payments per system based on the headings used in the LHCC CORE Review in 2001 (CERN/LHCC 2001-027) and in CERN-RRB-2002-026.

**Table 9** shows the CC-B income received from the Funding Agencies for 2007 per system. It amounted to 0.5 MCHF in total.

The overall negative cash balance (-2.7 MCHF) is treated as part of the global budget position shown in Table 17.

**CORE and CC-A Contributions to ATLAS Detector Construction**  
**during 2007 by Funding Agency**  
(Commitments, in kCHF)

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	Muon cham.	Trigger /DAQ	Common Projects	total
Argentina						75	75
Armenia						0	0
Australia						115	115
Austria					160	0	160
Azerbaijan						18	18
Belarus						75	75
Brazil						0	0
Canada						428	428
China NSFC+MSTC						0	0
Czech Republic					40	0	40
Denmark						0	0
Finland						0	0
France IN2P3						710	710
France CEA						0	0
Georgia						13	13
Germany BMBF					120	0	120
Germany DESY						38	38
Germany MPI						0	0
Greece						96	96
Israel					40	0	40
Italy					365	0	365
Japan					470	0	470
Morocco						0	0
Netherlands					35	0	35
Norway						40	40
Poland					145	0	145
Portugal						2	2
Romania						0	0
Russia						0	0
JINR					100	25	125
Serbia						0	0
Slovak Republic						0	0
Slovenia						61	61
Spain						0	0
Sweden						0	0
Switzerland					335	0	335
Taipei						0	0
Turkey						0	0
United Kingdom					1745	1222	2967
US DOE+NSF		500			2020	0	2520
CERN					3160	0	3160

from past contributions

3,282

total sub-detector

-	500	-	-	8,735	6,200	15,435
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**CORE and CC-A Contributions to ATLAS Detector Construction**  
**during 2007 by Funding Agency**  
(Payments, in kCHF)

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	Muon cham.	Trigger /DAQ	Common Projects	total
Argentina						275	275
Armenia						0	0
Australia						115	115
Austria					5	0	5
Azerbaijan						18	18
Belarus						83	83
Brazil						0	0
Canada						788	788
China NSFC+MSTC						340	340
Czech Republic					40	0	40
Denmark	100				125	0	225
Finland						0	0
France IN2P3						841	841
France CEA						0	0
Georgia						13	13
Germany BMBF						0	0
Germany DESY						0	0
Germany MPI						0	0
Greece						236	236
Israel						250	250
Italy						0	0
Japan					470	0	470
Morocco						0	0
Netherlands					30	0	30
Norway						190	190
Poland					145	0	145
Portugal						2	2
Romania						0	0
Russia						223	223
JINR						125	125
Serbia						0	0
Slovak Republic						0	0
Slovenia						61	61
Spain						0	0
Sweden						0	0
Switzerland					335	0	335
Taipei						0	0
Turkey						0	0
United Kingdom					685	1222	1907
US DOE+NSF		935			250	810	1995
CERN					900	0	900

from past Common Fund contributions

missing contributions to meet actual project payments

5,473

total sub-detector

100	935	-	-	2,985	11,065	15,085
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**CORE Common Project Contributions**  
**during 2007 by Funding Agency**  
 (Baseline+CC-A, in kCHF)

Funding Agency	payments				new commitments needed		
	in-kind contrib.	cash contrib.	m.s. contrib.	total contrib.	in-kind contrib.	Common Fund	total contrib.
Argentina	0	0	275	275	0	75	75
Armenia	0	0	0	0	0	0	0
Australia	0	115	0	115	0	115	115
Austria	0	0	0	0	0	0	0
Azerbaijan	0	0	18	18	0	18	18
Belarus	0	0	83	83	0	75	75
Brazil	0	0	0	0	0	0	0
Canada	0	701	88	788	0	428	428
China NSFC+MSTC	0	340	0	340	0	0	0
Czech Republic	0	0	0	0	0	0	0
Denmark	0	0	0	0	0	0	0
Finland	0	0	0	0	0	0	0
France IN2P3	0	841	0	841	0	710	710
France CEA	0	0	0	0	0	0	0
Georgia	0	0	13	13	0	13	13
Germany BMBF	0	0	0	0	0	0	0
Germany DESY	0	0	0	0	0	38	38
Germany MPI	0	0	0	0	0	0	0
Greece	0	198	38	236	0	96	96
Israel	0	250	0	250	0	0	0
Italy	0	0	0	0	0	0	0
Japan	0	0	0	0	0	0	0
Morocco	0	0	0	0	0	0	0
Netherlands	0	0	0	0	0	0	0
Norway	0	190	0	190	0	40	40
Poland	0	0	0	0	0	0	0
Portugal	0	0	2	2	0	2	2
Romania	0	0	0	0	0	0	0
Russia	155	68	0	223	0	0	0
JINR	0	100	25	125	0	25	25
Serbia	0	0	0	0	0	0	0
Slovak Republic	0	0	0	0	0	0	0
Slovenia	0	61	0	61	0	61	61
Spain	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0
Switzerland	0	0	0	0	0	0	0
Taipei	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0
United Kingdom	0	1222	0	1222	0	1222	1222
US DOE+NSF	0	810	0	810	0	0	0
CERN	0	0	0	0	0	0	0
Common Fund	0	0	0	0			
missing contributions				5,473	from past contributions		3,282
total	155	4,896	541	11,065	-	2,918	6,200

Table 4 (Page 7)

**Actual Cumulative Expenses for ATLAS Detector Construction**  
 1999-EoY 2007 by Funding Agency (baseline, kCHF)  
 Situation as of January 1, 2008

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	muon cham.	trigger /DAQ	total contrib.	Common Projects			total	
							in-kind contrib.	cash contrib.	m.s. contrib.		
Argentina									200	200.0	200
Armenia			95			95			101	100.5	196
Australia	1395					1395	250	300	200	750.0	2145
Austria					15	15	200		100	300.0	315
Azerbaijan									100	100.0	100
Belarus									200	200.4	200
Brazil			85			85			75	75.0	160
Canada	100	8590				8690	3360	1040	700	5100.0	13790
China NSFC+MSTC		370		765		1135		340	100	440.0	1575
Czech Republic	470		500		40	1010	315	300	300	615.0	1625
Denmark	900				150	1050	200	1100	100	1400.0	2450
Finland									100	100.0	100
France IN2P3	1755	18630	2110			22495	10595	5936	600	17131.0	39626
France CEA		5715		2175		7890	4420	1280	100	5800.0	13690
Georgia									100	99.6	100
Germany BMBF	7105	3158		2980	3865	17108	13315	7	900	14222.1	31330
Germany DESY									100	100.0	100
Germany MPI	1690	1722		865		4277	2075	1125	100	3300.0	7577
Greece			90	985		1075	260	190	300	750.0	1825
Israel				2565	335	2900	1000	550	300	1850.0	4750
Italy	4610	4245	1375	10885	4250	25365	18600	1200	1200	19800.0	45165
Japan	6845			6805	3775	17425	11800	100	1500	13400.0	30825
Morocco		210				210			38	37.5	248
Netherlands	1530			3035	525	5090	6700		200	6900.0	11990
Norway	2325					2325	1150	450	200	1800.0	4125
Poland	405				160	565	140	60	200	400.0	965
Portugal			1005			1005	799	88	100	986.5	1992
Romania			300			300	120	30	100	250.0	550
Russia	2790	3950	811	2715		10266	4385	668	613	5665.5	15932
JINR	1120	1495	1099	1765		5479	1660	100	100	1860.0	7339
Serbia											
Slovak Republic		305	45			350	50	50	100	200.0	550
Slovenia	840					840		600	100	700.0	1540
Spain	1210	2340	1970			5520	4300		300	4600.0	10120
Sweden	3080	1530	895		605	6110	1240	3060	400	4700.1	10810
Switzerland	4955	1055			1070	7080	8400	276	200	8875.5	15956
Taipei	1000	700				1700		1219	100	1319.0	3019
Turkey									200	200.0	200
United Kingdom	13170				4830	18000	2852	10851	1300	15003.0	33003
US DOE+NSF	12040	16860	3560	8770	1140	42370	15100	15632	3301	34032.6	76403
CERN	9010	8610	3000	1500	5480	27600	7860	19438	100	27398.0	54998
in Common Fund											
total sub-detector	78345	79485	16940	45810	26240	246820	121146	64489	15126	200761	447581

## ATLAS C+I (A) and (B) Payments in 2007 (kCHF)

Item & Cost Driver (by RRB/LHCC SG Headings)	Cat. A								Cat. B	Item & Cost Driver (by RRB/LHCC SG Headings)
	C&I	Pixel	SCT	TRT	IDGen	LAr	TileC	Muon	C&I	
Detector related costs Design and engineering tasks	5					4	9	154	167	Mechanics & Gas & Cooling & Cryogenics Gases (LAr, Tiles, Muons)
Secretariat						3	14	35	52	Standard electronics FE electronics (LAr)
Communications									0	Detector controls small components
On-line computing					60	6	20		86	Areas SR-building operation (ID)
Test beams, facilities					2				2	Communications GSM phones
Laboratory operations Infrastructure at Point 1 (cranes, access support structures, tech. services)					53		1		54	Store items Store materials (metal sheet, cables, connectors, components)
General services Heavy transport, crane operations Technical expertise									0	Sub-detector spares
<b>TOTAL</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>115</b>	<b>13</b>	<b>44</b>	<b>189</b>	<b>361</b>	(Excluding hired manpower for Category B)
Hired manpower at CERN (in kCHF)	incl. above								0	
Hired institute manpower (in kCHF)					132	13	18	24	187	
Institute manpower (in FTE)	0								0	
<b>TOTAL C&amp;I FOR A</b>	<b>5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>247</b>	<b>26</b>	<b>62</b>	<b>213</b>	<b>548</b>	<b>TOTAL C&amp;I FOR B</b>

**Notes:**

1. Category A is charged to the entire Collaboration, B to the respective systems based on CORE.

**C+I Contributions (cash and in-kind)**  
**for ATLAS in 2007 by Funding Agency**  
 (Categories A and B, in kCHF)

Funding Agency	Cat. A items	Category B item contributions						Total Cat. B	Total A+B	
		Pixel	SCT	TRT	IDGen	LAr	TileC			Muon
Argentina							0	0		
Armenia							0	0		
Australia	56			29			29	85		
Austria							0	0		
Azerbaijan							0	0		
Belarus							0	0		
Brazil							0	0		
Canada							0	0		
China NSFC+MSTC							0	0		
Czech Republic							0	0		
Denmark							0	0		
France IN2P3							0	0		
France CEA					150		115	265		
Georgia	4						0	4		
Germany BMBF							0	0		
Germany DESY							0	0		
Germany MPI							0	0		
Greece	36					52	52	88		
Israel							0	0		
Italy							0	0		
Japan							0	0		
Morocco							0	0		
Netherlands							0	0		
Norway							0	0		
Poland							0	0		
Portugal							0	0		
Romania							0	0		
Russia							0	0		
JINR							0	0		
Serbia							0	0		
Slovak Republic							0	0		
Slovenia							0	0		
Spain							0	0		
Sweden							0	0		
Switzerland							0	0		
Taipei							0	0		
Turkey							0	0		
United Kingdom	32						0	32		
US DOE + NSF	1500						0	1500		
CERN							0	0		
<b>total contributions</b>	<b>1,628</b>	0	0	0	29	150	0	167	<b>346</b>	<b>1,974</b>
<b>other income*</b>									<b>0</b>	<b>0</b>
<b>total payments</b>	<b>5</b>				247	26	62	213	<b>548</b>	<b>553</b>
<b>balance</b>										<b>1,421</b>

**Notes:**

\*Funds available either in baseline or by using deferral funds or contribution advancements

Cost sharing based on CORE contributions

## ATLAS CC-B Payments in 2007 (kCHF)

Pixel	SCT	TRT	IDGen	LAr	TileC	Muon	Cat. B	Item & Cost Driver (by LHCC CORE Headings)
							CC	
				67			67	Non-CORE Infrastructure Storage, test areas, modifications, repairs
	518			218	304	672	1,712	Additional CORE Tooling, test-stations, detector equipment
				1,479			1,479	Non-covered CORE Detector equipment
0	518	0	0	1,764	304	672	3,258	Total

3,258	TOTAL CC FOR B
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### Notes

Category B is system-specific and based on CORE sharing  
Payments 2007 CC Category A are included in Table 4

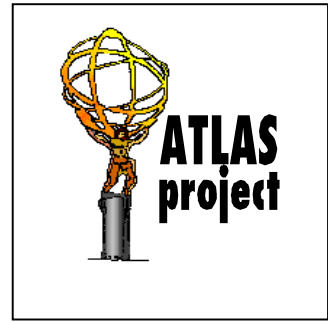
**CC-B Contributions (cash and in-kind)  
for ATLAS in 2007 by Funding Agency  
(in kCHF)**

12/03/2008

Funding Agency	Category B item contributions						Total Cat. B	
	Pixel	SCT	TRT	IDGen	LAr	TileC		Muon
Argentina							0	
Armenia							0	
Australia	13		4				17	
Austria							0	
Azerbaijan							0	
Belarus							0	
Brazil							0	
Canada							0	
China NSFC+MSTC							0	
Czech Republic							0	
Denmark							0	
France IN2P3	64		11	80			155	
France CEA						55	55	
Georgia							0	
Germany BMBF							0	
Germany DESY							0	
Germany MPI							0	
Greece						52	52	
Israel							0	
Italy							0	
Japan							0	
Morocco							0	
Netherlands							0	
Norway							0	
Poland	5						5	
Portugal					24		24	
Romania							0	
Russia							0	
JINR							0	
Serbia							0	
Slovak Republic							0	
Slovenia							0	
Spain							0	
Sweden							0	
Switzerland							0	
Taipei							0	
Turkey							0	
United Kingdom							0	
US DOE + NSF							0	
CERN							0	
<b>total contributions</b>	64	18	0	15	80	24	107	<b>308</b>
<b>other income*</b>	127			105				<b>232</b>
<b>total payments</b>		518			1764	304	672	<b>3,258</b>
<b>balance</b>								<b>-2,718</b>

**Notes:**

\*Funds made available outside present budget envelopes



CERN-RRB-2008-033

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ATLAS Resources Review Board, April 15, 2008

For RRB to take note

## **Part 2**

# **Update on the Planned 2008 ATLAS Baseline and Cost to Completion Budgets**




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# Introduction

*The ATLAS management, supported by the ATLAS Executive and Collaboration Boards, kindly invites the RRB to take note of the updated, remaining baseline and cost to completion payments for 2008.*

In October 2007, the RRB approved the year 2008 ATLAS baseline and cost to completion budgets (CERN-RRB-2007-071). The baseline and CC-A commitments were planned at 4.8 MCHF and payments 3.0 MCHF, respectively. The year 2008 completes the construction payments, both for the baseline and cost to completion (CtC). The present budget planning and reporting for the cost to completion payments is in line with the Completion Plan (CERN-RRB-2002-114 rev.).

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BASELINE BUDGET
REPORT ELEMENTS
 Summary Update
 Budget Evolution
 Table References

## 1. Baseline and CC-A Budget Update for 2008

The updated planned 2008 baseline commitments are estimated at 4.2 MCHF and project payments at 4.4 MCHF, respectively. This represents an increase of 45% in payments w.r.t the original budget, within the approved budget envelope. This shift is due to delaying the procurement and installation of the initial TDAQ processors to the last possible moment, in line with the latest LHC start-up schedule (mid June).

**Table 10** shows the 2007 ATLAS baseline budget evolution. Commitments include also making available the deferral funds. Payments indicate costs paid by the Project.



Table 10. Evolution of the 2008 ATLAS Baseline Budget (MCHF)

Budget Evolution	Sub-systems		Common Projects		Total (MCHF)	
	Comm.	Paym.	Comm.	Paym.	Comm.	Paym.
2008 Budget (Oct '07)	4.2	2.4	0.6	0.6	<b>4.8</b>	<b>3.0</b>
2008 Update (April '08)	3.9	4.1	0.3	0.3	<b>4.2</b>	<b>4.4</b>

Details by system/sub-detector and Funding Agencies are presented in **Tables 11 to 13**. Several comments are made.

First, in the Common Projects contributions from some Funding Agencies are late w.r.t budgeted payments already made by the Project. This has been reported to the RRB in previous documents (see Part I of the present document and CERN-RRB-2007-018). For this reason, the column "Common Projects" in Table 12 (10.2 MCHF) refers to remaining due baseline **income** to balance past project payments. The remaining net project payments in the Common Fund amount to 0.3 MCHF and they are related to terminating contractual obligations on the Common Fund. Corresponding provisions have been made.

Second, the due baseline contributions in Table 12 (10.2 MCHF) assume all outstanding contributions arrive in 2008. Despite best efforts made by all parties concerned, this is unlikely to happen. The Common Fund is therefore expected to remain in a negative balance for the next coming years (see Table 17 for a global view).

Third, it should be noted that for some Funding Agencies, past reported contributions have exceeded the original CORE values. The final, reported contributions will be aligned with the CORE values and any differences will be recorded separately.

Finally, the above figures do not include additional costs related to maintaining present installation and commissioning teams active beyond the closing date of the beam-pipe as part of the present financial plan (August 2007). The total additional net cost is estimated at 0.2 MCHF per month until closing of the beam-pipe. The share of the final costs falling on the Common Fund is not yet known but can ultimately be absorbed at the expense of purchasing TDAQ processors, assuming all remaining due contributions are received.

## 2. Commissioning and Integration (C&I)

All Commissioning and Integration (C&I) activities ended in 2007. The remaining open commitments related to C&I payments made in previous years amount to 0.4 MCHF have been paid in early 2008 thus completing all C&I payments. Outstanding contributions (so-called Category-1) from Funding Agencies amount to 13 kCHF.

**Table 14** shows the remaining payments for each sub-system as well outstanding contributions for each Funding Agency (Categories A and B). A negative budget balance (- 0.4 MCHF) is treated as part of the global budget position shown in Table 17.

CC-B BUDGET
REPORT ELEMENTS
Summary Update
Payment Plan
Table References

### 3. Construction Completion (CC-B)

All construction completion Category-B (CC-B) activities ended in 2007. There are no remaining open commitments from past years. Outstanding contributions (so-called Category-1) from Funding Agencies amount to 0.3 MCHF.

**Table 15** shows the expected remaining CC-B contributions for 2008 for each Funding Agency and system.

A positive budget balance (+0.3 MCHF) is observed. This is treated as part of the global budget position in Table 17.

Although the global budget balance is addressed below, it is worth noting here that the deferral scheme endorsed by the RRB in 2002 has not been entirely successful in avoiding the projected budget deficit.

The deferral scheme was approved by the RRB in 2002 as part of the Completion Plan (CERN-RRB-2004-114 rev.) to financially bridge the gap between the planned cost to completion (CtC) payments (68 MCHF) and pledged contributions (initially, 47 MCHF). This has been achieved by staging certain baseline detector components, mostly TDAQ processors, thus redirecting originally committed baseline CORE MoU funds towards completing the initial detector. At present, the deferred cash amounts to 9 MCHF. These staged items will then be restored centrally by the ATLAS management once the received CtC contributions reach 68 MCHF.

**Table 16** shows the present status and allocation of deferral contributions, as part of the Completion Plan (CERN-RRB-2002-114 rev.). These contributions will be included in the final CORE contribution reporting.

**Table 17** below provides an update of the global view of the budget balance evolution presented in the October 2007 RRB (CERN-RRB-2007-071, Table 7). At present, a 3 MCHF cumulative budget deficit is expected to remain until 2010, unless all committed baseline and pledged CtC contributions are received sooner. Unless these contributions are obtained, ATLAS is forced to reduce correspondingly the purchase of TDAQ processors thus compromising the required trigger threshold levels.

In Table 17 part of due baseline and CC-A contributions are expected to arrive only after 2008 (estimated today at ca. 7 MCHF). The Funding Agencies in questions are not in a position to write firm pledges to permit ATLAS to obtain financial help from CERN. As a result, ATLAS Common Fund is in the negative, taking also into account the use of available deferral funds.

The ATLAS and CERN Management continue their efforts to secure the due contributions from the Funding Agencies and will report on the situation in the October RRB.

While working on the Funding Agencies which have not yet contributed their baseline or calculated shares of cost to completion, **ATLAS kindly invites Funding Agencies to make voluntary contributions toward the missing 3 MCHF indicated by Table 17 to reduce the present cash flow deficit on the Common Fund.** These voluntary contributions will be accounted for as contributions for the future.

Table 17. Updated evolution of the ATLAS Budget Balance (MCHF)

PAYMENTS	95-01	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
Baseline + CC(A)	231	71	56	52	43	29	19	5	2	2	509
<i>of which deferrals</i>					-3	-2	-4				-9
C&I (A+B)	0	1	3	4	9	2	1	0			21
CC (B)		1	1	1	4	2	3				12
<b>TOTAL</b>	<b>231</b>	<b>73</b>	<b>61</b>	<b>57</b>	<b>54</b>	<b>30</b>	<b>19</b>	<b>5</b>	<b>2</b>	<b>2</b>	<b>532</b>
INCOME	95-01	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total
Baseline + CC(A)	252	65	55	54	33	15	13	7	2	1	495
C&I (A+B)		1	9	3	4	4	2	0			23
CC (B)		2	4	2	1	2	0	0			11
<b>TOTAL</b>	<b>252</b>	<b>68</b>	<b>68</b>	<b>59</b>	<b>38</b>	<b>20</b>	<b>15</b>	<b>8</b>	<b>2</b>	<b>1</b>	<b>529</b>
<b>BUDGET BALANCE</b>	<b>21</b>	<b>-5</b>	<b>7</b>	<b>2</b>	<b>-15</b>	<b>-11</b>	<b>-4</b>	<b>3</b>	<b>0</b>	<b>-1</b>	<b>-3</b>
<b>CUMULATIVE</b>	<b>21</b>	<b>15</b>	<b>23</b>	<b>25</b>	<b>9</b>	<b>-1</b>	<b>-6</b>	<b>-3</b>	<b>-3</b>	<b>-3</b>	
<b>CUMULATIVE (OCTOBER 2007)</b>	<b>21</b>	<b>15</b>	<b>23</b>	<b>25</b>	<b>9</b>	<b>-1</b>	<b>-7</b>				

Annex 1 and 2 provide a global view of the status of pledged contributions and planned, approved payments. Annex 1 shows the actual and planned income for each Funding Agency for cost to completion. Annex 2 summarizes received baseline and CtC (Category-1) contributions per Funding Agency as well as the remaining (and calculated) contributions to the baseline and cost to completion.

**Planned CORE and CC-A Contributions to ATLAS Detector**  
**Construction during 2008 by Funding Agency**  
(Commitments, in kCHF)

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	Muon cham.	Trigger /DAQ	Common Projects	total
Argentina						0	0
Armenia						0	0
Australia						0	0
Austria						0	0
Azerbaijan						0	0
Belarus						0	0
Brazil						0	0
Canada						0	0
Chile					180	138	318
China NSFC+MSTC						0	0
Colombia						138	138
Czech Republic						0	0
Denmark						0	0
Finland						0	0
France IN2P3						0	0
France CEA						0	0
Georgia						0	0
Germany BMBF						0	0
Germany DESY					180	0	180
Germany MPI						0	0
Greece						0	0
Israel					40	0	40
Italy						0	0
Japan						0	0
Morocco						0	0
Netherlands						0	0
Norway						0	0
Poland						0	0
Portugal					150	0	150
Romania						0	0
Russia						0	0
JINR						0	0
Serbia						0	0
Slovak Republic						0	0
Slovenia						0	0
Spain						0	0
Sweden						0	0
Switzerland					930	0	930
Taipei						0	0
Turkey						0	0
United Kingdom						0	0
US DOE+NSF					845	0	845
CERN					1570	0	1570

from past Common Fund contributions

0

total sub-detector

-	-	-	-	3,895	276	4,171
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# Planned CORE and CC-A Contributions to ATLAS Detector

## Construction during 2008 by Funding Agency

(Payments, in kCHF)

Funding Agency	Inner Det.	LAr Cal.	Tile Cal.	Muon cham.	Trigger /DAQ	Common Projects	total
Argentina						0	0
Armenia						29	29
Australia						350	350
Austria					135	0	135
Azerbaijan						0	0
Belarus						0	0
Brazil						63	63
Canada						1500	1500
Chile						138	138
China NSFC+MSTC						0	0
Colombia						138	138
Czech Republic						0	0
Denmark					350	0	350
Finland						0	0
France IN2P3						0	0
France CEA						0	0
Georgia						0	0
Germany BMBF						2	2
Germany DESY						0	0
Germany MPI						0	0
Greece						0	0
Israel					40	250	290
Italy						2288	2288
Japan						600	600
Morocco						125	125
Netherlands						0	0
Norway						0	0
Poland						0	0
Portugal					150	0	150
Romania						0	0
Russia						2597	2597
JINR					100	440	540
Serbia						0	0
Slovak Republic						0	0
Slovenia						0	0
Spain						0	0
Sweden						0	0
Switzerland					930	0	930
Taipei						0	0
Turkey						0	0
United Kingdom						0	0
US DOE+NSF					845	1640	2485
CERN					1570	0	1570

from past Common Fund contributions

0
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missing contributions to meet planned project payments

-
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total sub-detector

-	-	-	-	4,120	10,160	14,280
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**Planned CORE Common Project Contributions**  
**during 2008 by Funding Agency**  
 (Baseline+CC-A, in kCHF)

Funding Agency	payments				new commitments needed		
	in-kind contrib.	cash contrib.	m.s. contrib.	total contrib.	in-kind contrib.	Common Fund	total contrib.
Argentina	0	0	0	0	0	0	0
Armenia	0	0	29	29	0	0	0
Australia	0	350	0	350	0	0	0
Austria	0	0	0	0	0	0	0
Azerbaijan	0	0	0	0	0	0	0
Belarus	0	0	0	0	0	0	0
Brazil	0	0	63	63	0	0	0
Canada	0	1500	0	1500	0	0	0
Chile	0	0	138	138	0	138	138
China NSFC+MSTC	0	0	0	0	0	0	0
Colombia	0	0	138	138	0	138	138
Czech Republic	0	0	0	0	0	0	0
Denmark	0	0	0	0	0	0	0
Finland	0	0	0	0	0	0	0
France IN2P3	0	0	0	0	0	0	0
France CEA	0	0	0	0	0	0	0
Georgia	0	0	0	0	0	0	0
Germany BMBF	0	2	0	2	0	0	0
Germany DESY	0	0	0	0	0	0	0
Germany MPI	0	0	0	0	0	0	0
Greece	0	0	0	0	0	0	0
Israel	0	250	0	250	0	0	0
Italy	0	2288	0	2288	0	0	0
Japan	0	600	0	600	0	0	0
Morocco	0	50	75	125	0	0	0
Netherlands	0	0	0	0	0	0	0
Norway	0	0	0	0	0	0	0
Poland	0	0	0	0	0	0	0
Portugal	0	0	0	0	0	0	0
Romania	0	0	0	0	0	0	0
Russia	0	2247	350	2597	0	0	0
JINR	0	440	0	440	0	0	0
Serbia	0	0	0	0	0	0	0
Slovak Republic	0	0	0	0	0	0	0
Slovenia	0	0	0	0	0	0	0
Spain	0	0	0	0	0	0	0
Sweden	0	0	0	0	0	0	0
Switzerland	0	0	0	0	0	0	0
Taipei	0	0	0	0	0	0	0
Turkey	0	0	0	0	0	0	0
United Kingdom	0	0	0	0	0	0	0
US DOE+NSF	0	1640	0	1640	0	0	0
CERN	0	0	0	0	0	0	0
Common Fund	0	0	0	0			
missing contributions to meet planned project payments				-			
total	-	9,367	793	10,160	-	276	276



**Planned C+I Contributions (cash and in-kind)  
for ATLAS in 2008 by Funding Agency (Categories A and B, in kCHF)**

3/25/2008

Funding Agency	Cat. A items	Category B item contributions						Total Cat. B	Total A+B
		Pixel	SCT	TRT	IDGen	LAr	TileC		
Argentina								0	0
Armenia								0	0
Australia								0	0
Austria								0	0
Azerbaijan								0	0
Belarus								0	0
Brazil								0	0
Canada								0	0
Chile								0	0
China NSFC+MSTC								0	0
Colombia								0	0
Czech Republic								0	0
Denmark								0	0
France IN2P3								0	0
France CEA	13							0	13
Georgia								0	0
Germany BMBF								0	0
Germany DESY								0	0
Germany MPI								0	0
Greece								0	0
Israel								0	0
Italy								0	0
Japan								0	0
Morocco								0	0
Netherlands								0	0
Norway								0	0
Poland								0	0
Portugal								0	0
Romania								0	0
Russia								0	0
JINR								0	0
Serbia								0	0
Slovak Republic								0	0
Slovenia								0	0
Spain								0	0
Sweden								0	0
Switzerland								0	0
Taipei								0	0
Turkey								0	0
United Kingdom								0	0
US DOE + NSF								0	0
CERN								0	0
<b>total contributions</b>	<b>13</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>13</b>
<b>other income*</b>								<b>0</b>	<b>0</b>
<b>total payments</b>					<b>231</b>			<b>188</b>	<b>419</b>
<b>balance</b>									<b>(406)</b>

Notes:

\*Funds available either in baseline or by using deferral funds or contribution advancements

**Planned CC-B Contributions (cash and in-kind)  
for ATLAS in 2008 by Funding Agency  
(in kCHF)**

3/25/2008

Funding Agency	Category B item contributions							Total Cat. B
	Pixel	SCT	TRT	IDGen	LAr	TileC	Muon	
Argentina								0
Armenia								0
Australia								0
Austria								0
Azerbaijan								0
Belarus								0
Brazil								0
Canada								0
Chile								0
China NSFC+MSTC								0
Colombia								0
Czech Republic								0
Denmark								0
France IN2P3								0
France CEA					213		60	273
Georgia								0
Germany BMBF								0
Germany DESY								0
Germany MPI								0
Greece								0
Israel								0
Italy								0
Japan								0
Morocco					3			3
Netherlands								0
Norway								0
Poland								0
Portugal						13		13
Romania								0
Russia								0
JINR					13			13
Serbia								0
Slovak Republic								0
Slovenia				12				12
Spain								0
Sweden								0
Switzerland								0
Taipei								0
Turkey								0
United Kingdom								0
US DOE + NSF								0
CERN								0
<b>total contributions</b>	0	0	0	12	229	13	60	<b>314</b>
<b>other income*</b>								<b>0</b>
<b>total payments</b>								<b>0</b>
<b>balance</b>								<b>314</b>

Notes:

\*Funds available either in baseline or by using deferral funds or contribution advancements

**Status of Deferral Contributions (cash and in-kind)  
for ATLAS by Funding Agency (in kCHF)  
(February 29, 2008)**

17/03/2008

Funding Agency	Contribution		Deferral contribution allocated to							Total alloc.	
	Pixel	TDAQ	Magnets	LArCC	Infrastr.	ID	LAr	TileC	Muon		TDAQ
Argentina											0
Armenia											0
Australia											0
Austria		100	100								100
Azerbaijan											0
Belarus											0
Brazil											0
Canada											0
China NSFC+MSTC											0
Czech Republic											0
Denmark		500	500								500
France IN2P3	380		380								380
France CEA											0
Georgia											0
Germany BMBF	810	780	915					275	400		1590
Germany DESY											0
Germany MPI											0
Greece											0
Israel											0
Italy		605							605		605
Japan		750	750								750
Morocco											0
Netherlands		325	325								325
Norway											0
Poland											0
Portugal		50	50								50
Romania											0
Russia											0
JINR											0
Serbia											0
Slovak Republic											0
Slovenia											0
Spain											0
Sweden											0
Switzerland		2000		77	1089	834					2000
Taipei											0
Turkey		150	150								150
United Kingdom		1110	1110								1110
US DOE + NSF											0
CERN		2950	2950								2950
<b>total contributions</b>	<b>1,190</b>	<b>9,320</b>	7,230	0	77	1,089	834	0	275	1005	<b>10,510</b>

**Notes:**

Deferral scheme as part of the Cost to Completion Plan (CERN-RRB-2002-114 rev.)  
 Deferral funds refer to resources allocated to original CORE obligations now staged  
 Total of approved deferral funding is 13 MCHF for TDAQ and 2 MCHF for Pixels  
 Resources directed back to TDAQ reduce the available cash accordingly  
 The deferral contributions will be included in the final CORE baseline payments report

ACTUAL & PLANNED INCOME FOR ATLAS C&I (kCHF)

Annex 1

Funding Agency	C&I (A)										Calc.	C&I (B)										Calc.	Invoice	Calc.		
	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total	Total	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total	Total	Total	G.Total		
Argentina	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Armenia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Australia	0	0	0	0	0	56	0	0	0	0	56	56	13	17	0	0	0	29	0	0	0	59	59	115	115	
Austria	0	5	6	4	0	0	0	0	0	0	15	15	0	0	0	0	0	0	0	0	0	0	0	15	15	
Azerbaijan	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Belarus	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Brazil	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	1	11	1	15	
Canada	0	0	0	336	0	0	0	0	0	0	336	336	0	71	0	155	0	0	0	0	0	226	226	562	562	
Chile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
China NSFC+MSTC	0	7	8	5	0	0	0	0	0	0	20	20	0	10	9	3	0	0	0	0	0	22	22	42	42	
Colombia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Czech Republic	2	9	20	0	0	0	0	0	0	0	31	31	14	33	22.7	19.3	0	0	0	0	0	89	89	120	120	
Denmark	0	0	0	0	0	0	0	0	0	0	0	71	10	0	0	0	0	0	0	0	0	10	60	10	131	
France IN2P3	0	0	0	11	740	0	0	0	0	0	751	865	54	40	146	238	372	0	0	0	0	850	850	1601	1715	
France CEA	0	0	0	0	245	0	13	0	0	0	258	295	0	0	0	0	265	0	0	0	0	265	265	523	560	
Georgia	0	0	0	0	0	4	0	0	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0	4	4
Germany BMBF	252	0	18	454	0	0	0	0	0	0	724	724	253	0	183	16	105	0	0	0	0	557	557	1281	1281	
Germany DESY	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Germany MPI	0	44	69	54	0	0	0	0	0	0	167	167	36	34	45	44	1	0	0	0	0	160	165	327	332	
Greece	0	0	0	0	0	36	0	0	0	0	36	36	0	0	0	0	52	0	0	0	0	52	52	88	88	
Israel	0	0	0	0	106	0	0	0	0	0	106	107	14	72	50	0	0	0	0	0	0	136	135	242	242	
Italy	0	350	206	205	205	0	0	0	0	0	966	1007	0	418	93	190	262	0	0	0	0	963	980	1929	1987	
Japan	0	0	247	436	0	0	0	0	0	0	683	683	0	0	290	360	0	0	0	0	0	650	650	1333	1333	
Morocco	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	6	0	10	10
Netherlands	0	118	141	82	0	0	0	0	0	0	341	341	34	65	83	43	0	0	0	0	0	225	225	566	566	
Norway	0	32	38	22	0	0	0	0	0	0	92	92	23	29	26	20	0	0	0	0	0	98	98	190	190	
Poland	0	0	0	0	20	0	0	0	0	0	20	20	2	0	0	0	2	0	0	0	0	4	22	24	42	
Portugal	0	0	0	38	6	0	0	0	0	0	44	46	3	0	0	60	72	0	0	0	0	135	135	179	181	
Romania	0	0	0	15	0	0	0	0	0	0	15	15	0	0	29	11	0	0	0	0	0	40	40	55	55	
Russia	150	320	220	398	0	0	0	0	0	0	1088	408	28	122	0	65	91	0	0	0	0	306	588	1394	996	
JINR	0	0	0	0	0	0	0	0	0	0	0	117	48	78	144	62	0	0	0	0	0	332	289	332	406	
Serbia	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Slovak Republic	0	0	0	0	0	0	0	0	0	0	0	11	10	36	0	0	0	0	0	0	0	46	8	46	19	
Slovenia	0	0	0	0	36	0	0	0	0	0	36	36	0	0	0	0	35	0	0	0	0	35	35	71	71	
Spain	0	0	163	53	0	0	0	0	0	0	216	220	22	55	211	83	10	0	0	0	0	381	381	597	601	
Sweden	0	83	99	57	0	0	0	0	0	0	239	239	45	90	0	0	195	0	0	0	0	330	330	569	569	
Switzerland	0	0	0	0	433	0	0	0	0	0	433	433	3	0	0	0	235	0	0	0	0	238	238	671	671	
Taipei	0	22	27	16	0	0	0	0	0	0	65	65	8	26	12	15	0	0	0	0	0	61	61	126	126	
Turkey	0	0	0	0	0	0	0	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
United Kingdom	0	0	250	250	232	32	0	0	0	0	764	764	0	269	174	116	0	0	0	0	0	559	559	1323	1323	
US DOE + NSF	0	0	0	0	0	1500	0	0	0	0	1500	1807	51	25	0	0	0	0	0	0	0	76	2001	1576	3808	
CERN	111	5485	0	0	0	0	0	0	0	0	5596	1428	199	1081	0	0	80	0	0	0	0	1360	1260	6956	2688	

All in-kind  
All in-kind

total	515	6475	1512	2436	2023	1628	13	0	0	14602	10496	874	2575	1518	1500	1460	346	0	0	0	8273	10410	22875	20906	
calculated total	865	2775	4341	2515	0			0	10496	0	1405	2770	3375	2825	35							10410			
											%											%			
											139											79			
Actual payments	332	1425	1474	6696	352	5				10284	376	1710	1978	2366	1972	548						8950			
Income-actual payments	183	5050	38	-4260	1671	1623				4305	498	865	-460	-866	-512	-202						-677			
balance cumulative																									

ACTUAL & PLANNED INCOME FOR ATLAS CONSTRUCTION COMPLETION (kCHF)

Annex 1

Funding Agency	CC (A)										Calc. Total	CC (B)										Calc. Total	Invoice Total	Calc. G.Total				
	2002	2003	2004	2005	2006	2007	2008	2009	2010	Total		2002	2003	2004	2005	2006	2007	2008	2009	2010	Total							
Argentina	0	0	0	0	0	75	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	75	0
Armenia	0	0	0	0	9	0	29	0	0	38	38	0	0	0	0	0	0	0	0	0	0	0	0	10	38	48		
Australia	0	0	0	50	25	115	0	0	0	190	190	10	14	11	0	0	17	0	0	0	0	52	52	242	242			
Austria	0	12	14	13	13	0	0	0	0	52	52	0	0	0	0	0	0	0	0	0	0	0	0	52	52	52		
Azerbaijan	0	0	20	0	0	18	0	0	0	38	38	0	0	0	0	0	0	0	0	0	0	0	0	38	38	38		
Belarus	0	0	0	0	0	75	0	0	0	75	75	0	0	0	0	0	0	0	0	0	0	0	0	75	75	75		
Brazil	0	0	0	0	0	0	38	0	0	38	38	2	0	0	0	0	0	0	0	0	0	2	9	40	47			
Canada	0	0	87.5	212	411	428	0	0	0	1138.5	1139	32	177	0	180	0	0	0	0	0	0	389	389	1527.5	1528			
Chile	0	0	0	0	0	0	38	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0		
China NSFC+MSTC	0	25	18	13	13	0	0	0	0	69	69	0	9	13	6	2	0	0	0	0	0	30	30	99	99	Profile as calculated		
Colombia	0	0	0	0	0	0	38	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0		
Czech Republic	22	98	0	0	0	0	0	0	0	120	113	16	33	26	1	0	0	0	0	0	0	76	83	196	196	As calculated total, 100k/year 2003-2006		
Denmark	0	0	38	0	0	0	0	0	0	38	242	0	0	10	0	0	0	0	0	0	0	10	49	48	291			
France IN2P3	0	730	520	912.5	62.5	710	0	0	0	2935	2935	569	0	116	370	145	155	0	0	0	0	1355	1241	4290	4176			
France CEA	0	300	712	13	13	0	0	0	0	1038	1001	21	30	0	0	0	55	273	0	0	0	379	379	1417	1380			
Georgia	0	0	0	0	25	13	0	0	0	38	38	0	0	0	0	0	0	0	0	0	0	0	0	38	38	38		
Germany BMBF	1992	0	0	0	458	0	2	0	0	2452	2452	430	368	0	0	0	0	0	0	0	0	798	798	3250	3250			
Germany DESY	0	0	0	0	38	0	0	0	0	38	0	0	0	0	0	0	0	0	0	0	0	0	0	38	0	0		
Germany MPI	122	290	0	100	58	0	0	0	0	570	570	61	51	82	2	0	0	0	0	0	0	196	191	766	761			
Greece	0	0	0	0	75	46	0	0	0	121	121	0	0	0	0	52	0	0	0	0	0	52	52	173	173			
Israel	0	0	37	38	288	0	0	0	0	363	363	6	128	0	0	0	0	0	0	0	0	134	134	497	497			
Italy	80	350	80	160	151	0	2288	0	0	3109	3418	14	393	323	267	253	0	0	0	0	0	1250	1233	4359	4651			
Japan	0	0	1438	229	750	0	0	0	0	2417	2417	0	0	212	400	0	0	0	0	0	0	612	612	3029	3029			
Morocco	0	0	12	13	0	0	13	0	0	38	38	0	0	0	1	0	0	3	0	0	0	4	9	42	47			
Netherlands	0	0	25	1107	25	0	0	0	0	1157	1157	22	34	101	41	13	0	0	0	0	0	211	211	1368	1368			
Norway	0	187	18	25	41	40	0	0	0	311	311	22	33	21	4	0	0	0	0	0	0	80	80	391	391	Profile (A) changed as in letter RCN 24.9.03		
Poland	0	0	25	25	46	0	0	0	0	96	75	3	0	0	0	0	0	0	0	0	0	3	19	99	94			
Portugal	0	0	15	12	21	2	0	0	0	50	155	0	0	0	73	0	24	13	0	0	0	110	110	160	265			
Romania	0	15	0	37	0	0	0	0	0	52	52	0	0	17	16	0	0	0	0	0	0	33	33	85	85	All In-kind		
Russia	0	0	0	0	0	0	263	0	0	263	1381	36	12	3	0	51	0	0	0	0	0	102	614	365	1995			
JINR	0	0	12	0	0	25	0	0	0	37	397	3	76	58	0	2	0	13	0	0	0	152	263	189	660			
Serbia	0	163	0	137	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	300	0	0		
Slovak Republic	0	0	15	15	1	0	0	0	0	31	39	5	0	0	0	0	0	0	0	0	0	5	14	36	53			
Slovenia	0	0	12	13	35	61	0	0	0	121	121	0	0	0	0	19	0	12	0	0	0	31	31	152	152			
Spain	0	0	446	258	38	0	0	0	0	742	738	58	54	242	13	0	0	0	0	0	0	367	367	1109	1105			
Sweden	0	441	213	157	0	0	0	0	0	811	811	45	131	0	0	135	0	0	0	0	0	311	311	1122	1122			
Switzerland	0	1213	225	12	13	12	0	0	0	1475	1475	21	61	0	0	144	0	0	0	0	0	226	226	1701	1701			
Taipei	0	134	59	18	13	0	0	0	0	224	224	10	42	27	12	4	0	0	0	0	0	95	95	319	319			
Turkey	0	0	25	25	25	0	0	0	0	75	75	0	0	0	0	0	0	0	0	0	0	0	0	75	75			
United Kingdom	0	0	613	433	322	1222	0	0	0	2590	2590	137	195	121	21	0	0	0	0	0	0	474	474	3064	3064			
US DOE + NSF	0	1830	232	723	883	0	173	0	0	3841	6129	156	914	778	0	435	0	0	0	0	0	2283	2308	6124	8437			
CERN	978	4523	0	0	0	0	0	0	0	5501	8927	294	949	0	0	0	0	0	0	0	0	1243	1243	6744	10170			

total 3194 10311 4912 4751 3853 2842 2882 0 0 32744 40004 1973 3704 2161 1407 1203 303 314 0 0 11065 11670 43809 51674

calculated total 9550 11900 9350 4700 100 -4400 40000 4 2510 2945 4035 1645 535 0 11670 0

% 82

% 95

Actual payments 8415 4490 3690 5940 6962 10503 40000 1126 1007 1044 4207 1941 3026 12351

Income-actual payments -5221 5821 1222 -1190 -3110 -7661 -7257 847 2697 1117 -2800 -738 -2723 -1286

balance cumul.

Status of Contributions to ATLAS from Funding Agencies (February 29, 2008), kCHF

Annex 2

Funding Agency	Construction MoU obligations (kCHF)				CC and C&I accepted (kCHF)			Grand total committed (CORE-CC-C&I)	Part not yet pledged		Additional contributions (CtC-2)	
	detectors		CF	total CMoU	total paid	remaining contrib.	total committed		CC	C&I		
	total paid	remaining deliverables										remaining deferrals
Argentina	200			200	75		75	275				
Armenia	195			195	16	29	45	240	10	11		
Australia	2145			350	357		357	2852				
Austria	395	105	50	550	80		80	630				
Azerbaijan	100			100	38		38	138		4		
Belarus	200			200	75		75	275		10		
Brazil	160			25	3	38	41	226	7	14		
Canada	13575			1500	2090		2090	17165				
Chile		180		100		38	38	323				
China NSFC+MSTC	1575			1575	141		141	1716				
Colombia				100		38	38	138				
Czech Republic	1610		35	1645	316		316	1961				
Denmark	3020	280		3300	58		58	3358	243	121		
Finland	100			100				100				
France IN2P3	39080			39080	5891		5891	44971				
France CEA	13679			13679	1667	273	1940	15619				
Georgia	100			100	38		38	138		4		
Germany BMBF	32568			32568	4529	2	4531	37099				
Germany DESY	100			100	38		38	138				
Germany MPI	7545			7545	1093		1093	8638				
Greece	1725			1725	261		261	1986				
Israel	4755	30		250	739		739	5774				
Italy	43185		1925	45110	4000	2288	6288	51398	292	58		
Japan	31575			600	4362		4362	36537				
Morocco	243			113	26	16	42	397	5	10		
Netherlands	12115			12115	1934		1934	14049				
Norway	4120			4120	581		581	4701				
Poland	965			965	123		123	1088				
Portugal	1960	120	100	2180	326	13	339	2519	105	2		
Romania	550			550	140		140	690				
Russia	15920			2335	1496	263	1759	20014	1232			
JINR	7360	80		440	508	13	521	8401	471	74		
Serbia					300		300	300				
Slovak Republic	550			550	82		82	632				
Slovenia	1540			1540	171	12	183	1723				
Spain	9775			9775	1706		1706	11481				
Sweden	10800			10800	1691		1691	12491				
Switzerland	17725	780		18505	2372		2372	20877				
Taipei	3000			3000	445		445	3445				
Turkey	350			350	75		75	425		10		
United Kingdom	34100			34100	4387		4387	38487				
US DOE+NSF	76590	695	1983	1467	7527	173	7700	88435				
CERN	58245	1270		59515	9300		9300	68815			4400	
<b>TOTAL</b>	<b>453495</b>	<b>3540</b>	<b>4093</b>	<b>7280</b>	<b>468412</b>	<b>59057</b>	<b>3196</b>	<b>62253</b>	<b>530665</b>	<b>2365</b>	<b>318</b>	<b>4400</b>
					<i>of which for CtC</i>			<b>5918</b>				<b>0</b>
<b>Available for payments</b>					<b>Total baseline available</b>	<b>462495</b>	<b>RRB accepted CtC(1)</b>	<b>68170</b>	<b>RRB accepted CtC (2)</b>			<b>4400</b>
<b>Notes</b>									<b>Grand total</b>			<b>535065</b>

1. Column 'Total Paid' in Construction MoU is renormalized, includes also the deferral contributions made so far
2. Total CMoU refers to updated CORE construction figures (March 2008)
3. Original TDR detector staged for 21 MCHF of which < 14.5 MCHF (deferrals) can be used for covering cost over-runs
4. Sharing between BMBF/MPI and RF/JINR based on CORE MoU
5. CEA has contributed 1 MCHF to CF over and above its original MoU share (not shown here)
6. Risk of missing contributions in CF is 4.7 MCHF (Russia&JINR 3.0 MCHF, Canada 1.5 MCHF, Morocco& other 0.2 MCHF)
7. Remaining US C&I contribution of 4.5 MCHF is agreed on a best effort basis