

# ATLAS Level-1 Calorimeter Trigger response to SCP4 requests

## Request

ATLAS-UK asked to reduce:

- **Construction, exploitation and upgrade costs by 10%**  
(construction includes requisitions, travel, TD effort)
- **Common fund by 10%** – responsibility of PPARC and RRB, not ATLAS-UK directly
- **UK M&O by 25%**
- **CERN M&O by 50%** – responsibility of PPARC and RRB, not ATLAS-UK directly

Cut requested is:

- £2551k for 2002/3 + 2003/4 + 2004/5
- £3439k for 2005/6 onwards

These are supposed to be maximum possible cuts; actual cuts will hopefully be less.

## ATLAS-UK proposals

- Hold requisitions to current values, cut on other items to achieve desired totals.
- Unanticipated rise in cost of TD effort near end of 2001. Therefore, **two** proposals made: one if increase is rescinded (~no effort cuts needed then!), other if not.
- Big cuts in travel and M&O budgets proposed.

## Level-1 trigger

Note that in mid-term review, trigger requested 6.0 SY extra effort since firmware more demanding than anticipated but hardware price has come down (no UK ASICs or MCM). Also, timescale is now later. Total cost remains about the same.

### TD effort in staff years/year:

	2001/2	2002/3	2003/4	2004/5	2005/6	2006/7
Original proposal	5.0	4.0	3.0	2.0	1.0	–
Mid-term review 11/01	6.0	6.0	4.5	3.0	1.5	0.5
Proposal to SCP4	6.0	6.0	4.0	2.5	1.5	0.5

- This loss of effort would have to be found in the university and/or PPD groups.
- Cuts in effort also proposed for SCT and LVL2.

## Summary

The main effects of the cuts on ATLAS-UK would be to:

- Shift work from TD into the university groups.
- That would reduce the effort available for exploitation of ATLAS physics, and by cutting travel would reduce the ability to interact effectively at CERN.