

**Minutes of PS Technical Meeting N° 86
held on 18th June 1996**

Review of FPP Consolidation Project

Présents: B.W. Allardyce, J. Boillot, M. Bouthéon, R. Cappi, V. Chohan, R. Garoby, R. Giannini, J. Gruber, H. Haseroth, H. Koziol, S. Maury, L. Rinolfi, J.P. Riunaud, K. Schindl, C. Serre, J.D. Simon,

C.C.: B. Autin, P. Bryant, D. Dekkers, J.P. Delahaye, B. Frammery, K. Hübner, D. Moehl.

- 1 B. Allardyce gave a "résumé" of the FPP project so far. Of the original 42 tasks, 15 have been completed, 7 deleted or amalgamated for various reasons, 15 are currently under way, and 5 have still to be started. The total committed since 1993 is close to 5.0 MCHF, which means we are half-way in the project whose original estimate was nearly 11 MCHF. The latest BHT printout is shown in annex, with comments, following the later presentation.
2. J. Gruber, J.P. Riunaud, H. Koziol, H. Haseroth and R. Garoby presented the status of FPP jobs in their groups. These presentations gave rise to technical discussions from which a number of points emerged as follows:
 - The Booster needs beamscope which will be funded by K. Schindl (LHC-PS), and shavers (new job added to table 4 for supplies)
 - The code 78093, job C31 needs a continuation in 1997.
 - Code 78293, job C17, refers to the infrastructure and installation of the PSB-PS transfer line supplies, as well as the control electronics; this job refers to what is not being provided by Canada..
 - The list of jobs from GEB needs evaluation (see PSINVEST file)
 - The internal dump targets need renovation work and this should be added as a new FPP job; H. Koziol remarked that the controls of the existing devices have been replaced as repair was not possible.
 - The long delay cable for KFA45 should be financed by the LHC-PS project as it is needed for 1.4 GeV (action K. Schindl).
 - New beam loss monitor display electronics is extremely desirable; this will be added in PSINVEST table 4 as a new job awaiting financing.
 - The Booster B-train might need renovation, but a technical meeting will address the subject later.
 - There is a new request for 2 BLVD devices in between the tanks of Linac 2, since the existing device has already shown such good results. Cost is about 250 k. They might need incorporating into the control system later. This will be added to PSINVEST table 4 as a new job awaiting financing.
 - There is still a great deal of CAMAC around which one day needs replacing.
 - The as yet unstarted FPP jobs, C7, C9, C18, C20, C22 should start.

- New job proposed in PO group, the installation of the Tekelec in building 152 (30 k); new FPP job added to table 5, job C37.
 - New job proposed is PO group, the supplies for BHZ20, 25, 30, 40 plus spares (80 k); new FPP job added to table 5 as job C 38.
 - H. Koziol remarked that BD has a long list of new consolidation jobs once the present ones are finished (eg. MTV stations).
3. B. Allardyce has updated the PSINVEST file. See tables 4 and 5. Note the comments in blue, where discussions are needed. Tables in annex.

B.W. Allardyce

SITUATION 17 JUNE

Totals per Cost Centre

BHT

Summary Query

Totals per Cost Centre
 Nature : MATERIEL
 Destination : ALL
 Time Period: 1996-00-01 to 1996-06-17

Date: 1996-06-17 13:54

Extr: Thursday , 28/09 1995 01:50

Book: Saturday , 02/09 1995

Cost Centre	Total Payment Budget (Annual)	Total Commit Budget (Annual)	Payments Total	Commitments Total	Open Commit Total
72193	65,000.00	0.00	0.00	0.00	0.00
72593	0.00	0.00	21,694.15	31,374.15	9,680.00
72693	60,000.00	0.00	8,243.80	9,523.68	1,279.88
72793	60,000.00	0.00	51,619.13	68,993.41	17,374.28
72893	0.00	0.00	41,900.00	87,620.00	45,720.00
73293	30,000.00	0.00	24,138.70	28,117.52	3,978.82
73393	15,000.00	0.00	16,879.08	19,208.92	2,329.84
76493	30,000.00	0.00	25,350.94	29,380.94	4,030.00
78093	40,000.00	0.00	1,929.48	24,710.23	22,780.75
78193	55,000.00	0.00	12,927.12	44,456.95	31,529.83
78293	45,000.00	0.00	10,327.49	17,388.43	7,060.94
78493	45,000.00	0.00	17,278.13	39,626.57	22,348.44
78693	30,000.00	0.00	162,572.80	167,401.52	4,828.72
79393	25,000.00	0.00	6,685.50	27,951.85	21,266.35
79493	35,000.00	0.00	12,040.00	14,400.00	2,360.00
79893	180,000.00	0.00	76.22	76.22	0.00
Total	715,000.00	0.00	413,662.54	610,230.39	196,567.85

JOB C34 NEEDS 150K. CONTINUES
 RELIQUAT JOB C2 FINISHED
 JOB C29/30 NEEDS 100K. CONTINUES
 JOB C28 FINISHED
 JOB C33 NO MORE SPENDING
 JOB C5 NEEDS 100K. CONTINUES
 JOB C8 NEEDS 30K. ALMOST FINISHED
 JOB C11 NO MORE SPENDING
 JOB C31 CONTINUES IN 1997
 JOB C23 CONTINUES TO 1998
 JOB C17 CONTINUES TO 1998
 JOB C36 CONTINUES TO 1998
 JOB C21 FINISHED
 JOB C24 ALMOST FINISHED
 JOB B6 WILL FINISH IN 1996
 JOB C35 NEEDS 120K IN 1997

JOB S

FINISHED OR DELETED JOBS		STATUS
JOB NO.	DESCRIPTION	
b1	Replacement of PFN delay cables; code 72893	finished
c1	Replace electr. of the drive mechanisms of the PS and PSB septa, code 72093.	finished
c2	New pulsed septa for PSB and constr. of new pulsed SMH42 in PS, code 72593.	finished
b2	Wire scanner, phase 2; was code 76059, now 76093	finished
b3	Renovation of BLM at PSB; was code 76159, now code 76193	finished
b4	Inst. of pulsed supplies for FE16 & 58; was code 78260, now code 78293	finished
b5	Repl. electronics of supplies in TT2 & 70; was code 78360, now code 78393	finished
c19	Bump 42 power supply renewal (5 elements), code 78593	finished
c32	Power supply for SMH42, code 78793	finished
c4	Spares for RFQ2 (supplies for solenoids in test area), paid by code 73360	finished
c6	IHEBT and measuring lines instrumentation renovation & digitalisation.	finished
c12	Surveillance of PSB and equip halls for temp and flooding (ST), code 73493	finished
c13	Temp. surveillance of PSB magnets, replace obsolete system (AT)	finished
c14	Shielding and/or compens. of PSB injection line against PS fringe field	finished
c25	RF power loop electronics renovation (for 20 generators)	deleted, done with exploitation m
c26	200 MHz gap replacements	finished
c27	10 MHz and 200 MHz systems renovation for PS machine	deleted, done with exploitation m
c3	Replace 4 DC quads/supp by pulsed in common line, linacs to PSB.	deleted, now for Canada
c10	Measurement targets in PSB.	deleted, now LHC_PS
c15	PSB power supp. for 1.4 GeV (mag. & 2 quads); now job i2 of LHC proj.	deleted, now LHC_PS
c16	Replacement of PCB components in divers supplies	deleted, now TIS

(4) New requests not yet funded by Subventions from the Division, updated after Technical meeting on 18 June 1996

		1996	1997	1998	TOTAL	COMMENTS
72xxx	FPP PA		?	?		
73xxx	FIP HI		150	150	300	
	FPP HI		100		100	New request for 1996, but not accepted.
74xxx	FPP HI		125	125	250	GEB. New request, moved to 1997.
	FLP LP		100		100	
76xxx	FCO BD		?	?	0	
	FCO BD		?	?	0	
78xxx	FPP PO	100	150		250	
	EPP PO	40	85		125	
	FPP PO		280	60	60	
	FPP PO		85		85	
Totals		140	1'075	335	1'550	

[REDACTED]

(5) Details of the FPP consolidation project jobs for PS (project D-082=PS.13)

CODE	PPA	DESCRIPTION	PAST PAID	Alloc. 1995	1996 from GLM of 11 Dec 95	1996 real (98%) allocation	1997	1998	JOB NO.	COMMENTS
72593	FPP PA	Study of new septa for PSB and construction of new SMH42	100	150					Job c2	Finished, but reliquat of payments
72693	FPP PA	Fast kicker systems: general renovations on 40 systems		120	120	80	120		c29/c30	Will finish in 1996
72793	FPP PA	Fast kicker systems: solid state triggers		100	120	80			Job c28	Will finish in 1996. Extra request for
72893	FPP PA	New, higher capacity cranes for PS tunnel		50		45			Job c33	Request to start in 1996, having been
72193	FPP PA	New 300KV generator for tests on septa.			150	100			Job c34	
73293	FPP HI	Ion source test stand (protons)	70	70	70	45	70		Job c5	
73393	FPP HI	Renovation of PSB transverse dampers, also job 117, was 73560	100	30	20	15			Job c8	
	FPP HI	PSB injection kicker power supply (25 years old)					400	100	Job c7	
	FPP HI	Loss collimators in PSB, stage 1 and stage 2.					500	250	Job c9	
76493	FPP BD	Transfer line pick-ups PSB/PS, formerly 76460	90	270	60	40			Job c11	Will finish in 1996
78093	FPP PO	Renov. partielle des 3 alims septa de l'ejection lente SE61.	50	50	60	55	60		Job c31	
78693	FPP PO	PSB injection quads & dipoles (15 elements)	100	180	60	40			Job c21	Needs 60k in 1996 to finish.
78293	FPP PO	PSB to PS transfer line supplies (13 elements, non-Canada part)			100	65	350	75	Job c17	
78193	FPP PO	Electronics renovation for PS supplies			120	60	120	100	Job c23	Request to start in 1996, having been
78493	FPP PO	Consolid alimentations Linac 2 (5kV et alim pulses)			100	65	140	40	Job c36	New request for 1996, high priority,
	FPP PO	Renovation des alimentations des CBE (60 dipoles et skewes)					350	80	Job c18	
	FPP PO	PS gamma transition, renovation of supplies (4 elements)					300	120	Job c22	
	FPP PO	Booster Bd1 and Q-strip renovations					360	60	Job c20	
	FPP PO	Deplacement des alims Tekelec dans bat 365							Job c37	
	FPP PO	Renovation de l'electronique des BH220, 25, 30, 40 et 2 reserves							Job c38	
79393	FPP RF	Beam control electronics renovation	120	50	40	25			Job c24	Will finish in 1996
79493	FPP RF	Renov RF; incl ferrite cooling discs repl. (ex 79460); job b6 of FPP	271	250	50	35			Job b6	Will finish in 1996
79893	FPP RF	Replacement of 200MHz amplifiers (8 units) at Linac 2	901	1'320	450	275	120		Job c35	
					1'540	1'155	2'890	825	8'631	

new request for 96.