



Proton Synchrotron Division

PS/DR/Note 2002-082 (Min.)

Summary of the Meeting of the PS Management Board held on 23.05.2002

Present : B.W. Allardyce, S. Baird, J. Boillot, M. Chanel, G. Daems, J.P. Delahaye (Chairman), B. Frammery, G. Geschonke, J. Gruber, E. Jensen, M. Lindroos, A. Marmillon (Staff Association), K. Metzmacher, J.P. Potier, J.P. Riinaud, K. Schindl

Excused : R. Garoby, H. Haseroth, S. Maury, S.L. Neboux

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0. Last Minute News

- **Relay Race around CERN** : 7 PS teams participating, a new record.
First Place for the (majority) PS team "**Shabbys**", fastest of all categories!
Second place in their category for "**Les Cailles**", an extremely young and ambitious PS female team;
Third place for the team "**Run For Fun**";
Challenge "Z" for the CTF team.
Quel Podium! Congratulations to all teams.

- **Congratulations to Alessandra Lombardi** for the birth of her son during the Whitsun weekend!

Now it's obvious: PS is undergoing rejuvenation at last!

1. Follow-up of previous meeting and matters arising

- **PS/SL Management Meeting** 27-29. May 2002 in Morzine: Old and new group leaders, together with the future leaders of major projects, will work on the organization of the new AB (Accelerators & Beams) Division. Three groups, initially foreseen to stay with or join EST Division, are invited as well (Technical Co-ordination, Target & Dumps, Experimental Areas).
- **10 Posts for the Sector in 2002**: in line with the present policy, all ten will be technicians, hired by the (common) OP Group to build the core of a crew for the magnetic measurements of the LHC series magnets (25 shift technicians for four years). Some of them will stay with CERN for operating "their" machine, the LHC. Ways to free the missing 15 shift technicians in OP group, and possibly in other groups, are being studied. The shorter running periods, as well as no running at all of SPS and PS machines in 2005 should facilitate this support to LHC, potentially saving 8 MCHF.
- **Stopping PS in 2005?** As the SPS will not be run in 2005, stopping the PS (and AD) machines is being considered. However, Linac2 and PSB would provide beams for ISOLDE. Moreover, CTF3 and LEIR (commissioning foreseen for 2005) should not be affected by this measure.
- **"Faraday Cup" for Andreas Jansson** : The PSMB congratulates A. Jansson for having received the prestigious 2002 "Faraday Cup" award for innovative instrumentation (a new type of "quadrupole" monitor measuring mismatch between machines, and beam size).
- **Future Common Control Group**: B. Frammery reports on a series of meeting which are intended to shape the mandate and structure of the future common Controls group. The "PS Philosophy" – having most controls effort centralized in CO rather than in RF, BI/BD, PO,... groups – seems to appeal to the majority of participants. While not yet decided, it is proposed that the LHC/IAS group joins the future AB/CO group as well, although their technology, industrial control, is somewhat different from what is required for accelerator control.
- **Fellows and Associates**: J. Boillot informs the meeting that in the framework of general savings at CERN the budget for Associates has been reduced by 40% and the one for Fellows by 10%.
- **EPAC 2002 Oral Presentations and Posters**: S. Baird announces this special PS Seminar on Thursday 30 May 2002, 14:00 – 17:00, PS Auditorium, to prepare EPAC.

2. Follow-up of the Schedule Meeting and PS Complex Operation

- **Status of the Beams:** The special high intensity LHC beam for "beam scrubbing" in the SPS, beyond nominal bunch intensity, worked extremely well. This 10-days period has allowed the SPS team to make big progress in the understanding and studying of potential cures of the electron cloud phenomena, and G.L. Arduini conveyed their thanks to the PS crew. The antiproton production beam for AD is now working better than in previous years, delivering already 1.5 10¹³ p/pulse, with unprecedented beam quality. The nTOF beam as well as the SPS fixed target beam (moderate intensity) are ready for the users.
- The slow extraction to the **East Hall** remains limited to 20 GeV/c because of faulty transformers of the electrostatic extraction septum, whose repair will take about four to six weeks.
- A small **fire in the CTF klystron gallery**, probably due to a bad high-current contact, was fortunately without major consequences thanks to the fast reaction of **Steve Hutchins** who extinguished the fire before the firemen arrived.
- CTF3: Excellent progress as beam is now injected, circulating and accumulated in the ring; there is now hope that the RF recombination of short bunches can be tested before EPAC2002.

3. INTC (Meeting 13 May 2002)

3.1. ISOLDE (Presentation by Mats Lindroos)

- Short **Technical Report** in the Open Meeting. The Committee congratulates PS for the successful start-up of both separators as well as the putting into operation the "push-pull" mode (ppm) between GPS and HRS. They also thanked **Erich Kugler** for his special effort in this last shutdown before his retirement.
- **Juha Aysto** of CERN was elected **Chairman of INTC** as from January 2003.
- In view of the CERN budget situation, ISOLDE has to operate with fewer targets, and/or **reuse existing targets**.
- The **REX-ISOLDE** Collaboration plans an upgrade of the present energy (2.1 MeV/u) to 3.1 and possibly 4.3 MeV/u. They also would like CERN to **take over the exploitation of REX-ISOLDE**; this issue will be discussed in a meeting beginning of June for which PS has to prepare its position. In the present CERN budget and manpower crisis, clearly the Collaboration will have to pay material and personnel cost.
- An **Audit Report on Solid State Physics** recognizes the high quality of research performed at CERN-ISOLDE and proposes to build a laboratory facility to prepare samples etc. Also the ease of access to the beam areas should be markedly improved.

3.2. nTOF (Presentation by J.P. Riinaud)

- According to the Technical Report presented by **P. Cennini** (now **nTOF Technical Co-ordinator**), the excessive background signals are now suppressed after sufficient shielding, paving the way to finally start with the physics experiments.
- There are **six experiments** foreseen for 2002, with an integrated intensity of 7 10¹⁸ protons over 21 weeks. Note that the major part of the Collaboration's debts to CERN has been paid.

4. ADUC (Presentation by J.P. Riinaud)

- After the **AD Machine Status report** given by **Tommy Eriksson**, it was decided that the physics run would start slightly delayed, on Monday 27. May.
- **Two Operators, to be paid by the Collaboration** are being hired to replace two more experienced operation technicians who are going to run the AD in the future. There were strong feelings on the idea of stopping AD in 2005.
- One of the experiments asks for increased flexibility to change beam destination between experiments. However, the **AD extraction line is not PPM** like the rest of the PS complex, mainly because of massive core magnets. Nevertheless, there is room to markedly shorten the switching time.

Karlheinz Schindl
(exceptionally, because Tjitske and Catherine had a more important appointment....)

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tk 23 May 2002