

MACHINES AND AREAS COMMITTEE

Summary of meeting No 46 - April 9, 1975

Present

O. Barbalat (Secretary), D. Bloess, L. Brouwers, D. Dekkers,
M. Georgijevic, C. Germain, W. Hardt, L. Hoffmann, U. Jacob,
B. Kuiper, G.L. Munday (Chairman), G. Nassibian, G. Plass,
Ch. Rufer.

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1. Planning of SPS running-in

a) Report on the Proton for Preveessin (PFP) meetings

Regular joint meetings are organized with the SPS since October 1974 (see MAC 34, item 4). Five meetings have taken place already covering the following subjects :

- Magnetic field requirements and beam parameters (Meeting No 1 MPS/DL/Min. 74-35)
- SPS requirements concerning beam intensity modulation (Meeting No 2 - MPS/DL/Min. 74-45)
- Communication between CPS and SPS - signals, security and access, beam observation, intercom, controls (Meetings No.3 and 4 - MPS/DL/Min. 75-3 and 75-6)
- Longitudinal beam behaviour (Meeting No 5 - MPS/DL/Min. 75-9)

Most of the subjects raised have lead to mutually acceptable solutions.

As far as longitudinal transfer is concerned, the PFP strongly recommended the implementation of the η -increase scheme proposed by W. Hardt (MPS/DL/Note 74-5) which has given significant performance improvements (MD reports No 25, 27 and 28). This facility will require 2 programmable power supplies. Modified Brentford 34 units (Lab.II type, already to be used for PFW) seem acceptable. The SM group will make a proposal within a few weeks but the MAC has accepted the principle of this project which is estimated to 200/250 kFr.

Other remarks on topics discussed or to be discussed by the PFP group concern :

- The influence on the magnetic field reproducibility of the splitting of the F and D PFW circuits. The flat top level will be affected not only by the main magnet power supply but by the reproducibility of PFW auxiliary supplies. This subject should be discussed first inside the PS
- Medium term (1976-78) implication of SPS operation on the PS physics programme. L. Hoffmann has been asked to look into this matter in consultation with other members of the division.
- Preliminary discussions on SPS running-in schedule could start as soon as SPS people are ready and should at some stage involve ISR.

b) Planning of work related to SPS running-in

L. Brouwers and M. Georgijevic, presented 2 worked out examples of the necessary information on the various phases of each project needed to reach a global view.

All group leaders were invited to ask their project leaders to prepare the planning data for the end of April.

L. Brouwers has standard planning forms available.

- The aim is to have a complete picture by the middle of May. L. Brouwers will distribute to all group leaders a copy of the planning sheet corresponding to all the concerned projects. Ressource bottlenecks must be identified, in particular project leaders should state their assumptions on the amount of common service they require. (i.e. cable installation, drawing office support, mechanical and electronic workshop, etc.).
- It was also suggested to make a planning network to discover the interconnections.
(It would, for instance, be very desirable to run, as early as possible, dummy supercycles to test under operating conditions the absence of interactions between subcycles even before the completion of the installation and test of the supercycle main power supply timing and programmation systems.

2. Future Meetings

- May 7 : Instrumentation
- May 21 : Planning of SPS running-in
- June : Spare parts

No meeting seems to be necessary on the East Area Transformation project. L. Hoffmann will prepare a status report and circulate it.

O. Barbalat

Distribution : Scientific Staff, MPS Division.