

MACHINES AND AREAS COMMITTEE

Summary of meeting No. 53 - January 28, 1976

Present

O. Barbalat, H. Beger, D. Bloess, F. Bonaudi, D. Dekkers,  
M. Georgijevic, C. Germain, W. Hardt, L. Hoffmann, B. Kuiper,  
J.H.B. Madsen, G.L. Munday (Chairman), K.H. Reich, C.E. Rufer

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PERFORMANCE AND COST ANALYSIS OF PS EXPLOITATION

G.L. Munday introduced the subject by recalling previous discussions on spare parts (MAC No. 45 and 49), analysis made on certain systems after the fire (non replacement of KM 97 hydraulics, MAC No. 51), and the suggestion of B. Kuiper to make a comprehensive vulnerability/reliability study of the CPS.

J.H.B. Madsen has accepted to carry out such a study. He outlined at the meeting the various factors which must be considered (machine availability, reliability, maintainability, operation and maintenance staff, spare parts, replacement policy, etc.) and how they are inter-related. (A note on this subject will be prepared and circulated in the near future.)

It was agreed to start the analysis with the Booster and the vacuum system, aiming at having preliminary results during Spring.

TOPICS FOR FUTURE MEETINGS

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| February 17  | a) Status of preparation for SPS running-in. Time-table for installation of final equipment (report by A. Krusche) |
|              | b) Status of TT2 transfer line (spare parts, handling of responsibility from ISR to the PS groups).                |
| End February | a) Review of the instrumentation (P. Lefèvre)  |
|              | b) Review of PS operation problems in 1975<br>Recommendation for action (D. Dekkers).                              |

- March Preliminary ideas on computer system (B. Kuiper).
- March/April Future 25 GeV physics programme (L. Hoffmann).
- April - PS single pulse intensity limit.  
Technical considerations, resources and cost estimates (P. Lefèvre),
- May Status of pulse to pulse intensity modulation project (1st stage) (J.P. Potier, K.H. Reich) - assessment of experience achieved, analysis of possible further needs and proposed extensions.
- May/June Poleface windings (C. Germain, R. Gouiran) :  
a) assessment of performance of provisional solution  
b) decision on the long term solution for power supplies (3 or 5 current systems).
- June/July Multipulsing of the PS for injection in the SPS (a working group is being set up by G. Plass to deal with this subject in close connection with the work on single pulse intensity limit).

Concerning projects involving the extension of PS performance beyond  $10^{13}$  p/p at 10 GeV for the SPS and  $5 \cdot 10^{12}$  p/p at 24/26 GeV, G.L. Munday stated that they were also beyond the present division budgetary resources. If such performance improvements were requested by the users, additional resources should also be provided.

A series of topics covering the SC activities were also discussed (status of improvement programme, operational problems, acceleration of He<sub>3</sub> and deuterons) but it was decided to organize first a couple of PS seminars to give background information to the non-SC members of the division. D. Möhl will contact H. Beger on this.

O. Barbalat

Distribution

PS Scientific Staff  
D. Boussard/SPS

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