

Summary Record of the 4th Meeting of TICTAC held on 15th March, 1984

Persons present : D. Cornuet, D. Dekkers, A. Fiebig, H. Horisberger (Chairman), R. Horne, E. Jones, S. Maury, S. Milner, J. Pasquali, J.P. Quesnel, L. Rinolfi, T.R. Sherwood, A. Sullivan, J. Vlogaert, F. Völker, B. Williams (Secretary) M. Zanolli.

Apologies for absence received from : O. Barbalat, V. Chohan, F. Malthouse.

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Action

Opening Remarks : The Chairman stated that if TICTAC is to be effective within the ACOL project, attendance at its meetings is necessary for all designated members or their replacements. He drew attention to the TICTAC calender previously circulated.

AGENDA

1. Record of the Previous Meeting

1.1 Corrections

- 1.1.1 The previous record, item 2.1 should read :-
... the latest lattice put out by B. Autin and injection geometry calculated by R. Sherwood ... etc.
- 1.1.2 PR 2.3 second sentence to be revised thus :
84.05 has a higher η but dispersion remains zero at $\Delta p/p$ implying that :- a) aperture requirements in the narrow quads is less than in 84.04; b) there is no contribution on the transverse stochastic cooling from the longitudinal $\Delta p/p$ signal. However large η variations should be checked with RF aspects (bunch rotation) before deciding on 84.05.
- 1.1.3 P.R. 3.6 - The words "closeness of" are to be deleted.

1.2 <u>Matters Arising</u>	<u>Action</u>
1.2.1 PR 2.4 - ACOL Element numbering system - see item 2 of the present agenda.	
1.2.2 PR 3.6 - Power supplies - see item 7.1 this agenda.	
1.2.3 PR 5.4 Stochastic cooling power amplifiers :- it was felt that they would be better placed near the relevant equipment and not in the new service building.	
<u>2. ACOL ELEMENT NUMBERING SYSTEM</u>	
2.1 H. Horisberger presented a system similar and compatible with that used on AA - this system was approved.	
2.2 R. Sherwood proposed the following number prefixes	
60 .. for injection line elements 70 .. for transfer elements AC - AA 80 .. for ejection line.	
2.3 Element abbreviations/codes are to be established for approval at the next meeting.	B.W.
<u>3. PLANNING</u>	
3.1 B. Williams presented the latest version of the ACOL General Construction Planning. Information for some activities is still outstanding but must be indicated by the next TICTAC.	C.J., W.P., R.S., G.B., F.M.,
3.2 It was felt that 2 further activities should be listed - a) Multipoles b) Access Control.	B.W.
3.3 The list of people responsible for the listed activities was brought up to date, and will be added to the planning sheet.	B.W.
3.4 The question of whether planning effort might be usefully put on computer is to be studied.	B.W., R.S.
<u>4. NEW SERVICE BUILDING</u>	
4.1 H. Horisberger reported that final drawings are expected at the end of the month and hence further comments, requirements etc. should be quickly made known to him.	

R.S., H.H.

- 4.2 R. Sherwood proposed that alternate cable holes be of a clover leaf design. Due to drilling difficulties one large hole containing 3 conduits of ϕ 150 would be a reasonable solution. Final requirements would be established by the end of the week.
- 4.3 SB have confirmed that the pillar construction will take place as foreseen in the June, 10 day shutdown.
- 4.4 SB have made an estimate for the services including the 2.5 t. crane, water compressed air supply, lighting and electrical supply 380/220 V, heating and ventilation, all amounting to approximately 140,000 FS.
- 4.5 Eventual cooling water (town) could be brought from the adjacent wall of 193.

5. INJECTION/EJECTION LINE

- 5.1 R. Sherwood explained the latest thinking on the injection line design. Discussion followed in which the question was raised - should the target be placed further upstream? This and all other design options are being investigated prior to a definitive geometry being chosen.
- 5.2 R. Sherwood noted that another bending magnet is foreseen between ACOL and AA. The details of ACOL - AA Transfer would be available in approximately 1 month.
- 5.3 S. Maury presented a drawing showing the ejection AA - PS alternatives. These were considered at length particularly the solution that required the tilted ejection line magnet placed below the adjacent ACOL 'C' type magnet, in a trench that would run the whole length of the ejection line.

The final choice will be made at the next meeting of TICTAC.

- 5.4 R. Sherwood was asked to provide a list of both the injection/ejection line elements and their power supplies.

R.S.

6. MAGNET STATUS

- 6.1 J. Vlogaert outlined the main bending magnet parameters (see copy attached herewith). This promoted a general discussion during which C. Johnson brought attention to the need to bear in mind the end field influence on adjacent quads.

6.2 The ring bending magnet against the injection line could be J. Vlogaert felt, a special C type. This idea will be further pursued at a meeting of all concerned, called by B. Autin.

B.A.

6.3 Bending magnet specifications would be written by the middle of May 1984.

7. MISCELLANEOUS

7.1. Power Supplies :- A table listing the known power supply requirements was drawn by F. Völker. This list will figure in an internal note soon to be distributed.

7.2 Septum Power Supply - A scheme of the proposed shielding in that area, presented by B. Williams showed the septum power supply remaining in its present position with restricted but adequate access. Moving the power supply would be a costly operation and within the operating constraints, everything possible will be done to keep it where it is.

8. NEXT MEETING - Thursday, 12th April, 1984 at 14h30 in the Large PS Conference Room.

B. Williams

Distribution :

TICTAC List