

SUMMARY RECORD OF THE 13th MEETING OF TICTAC HELD ON 29.11.1984

Present: B. Autin, G. Benincasa, G. Carron, F. Caspers, V. Chohan, D. Cornuet, D. Dekkers, S. Gustar, H. Horisberger (Chairman), F. James, C.D. Johnson, E. Jones, H. Koziol, F. Malthouse, T.R. Sherwood, A. Sullivan, H.-H. Umstätter, F. Volker, B. Williams (Secretary)

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Agenda

1. Record of the Previous Meeting

1.1 Correctness

P.R.1.2.1. A. Sullivan asked that the words "the pompiers had not objected to" be replaced in the record by the words "the pompiers had approved". Also that on the question of corrosive air, the noted "that it would be difficult to change the status quo" be changed to "Present procedures are adequate for personnel access".

Action

1.2 Matters Arising

1.2.1 P.R.1.2.1. A target zone ventilation specification was being prepared by C.D. Johnson. It will be presented at the January TICTAC. D. Fiander had observed that technical restrictions might mean the eventual placing of power supplies in the target zone, e.g. for plasma lens, etc.

C.D. Johnson

1.2.2 P.R.1.2.3. RF Denim water needs had been given to PS/PO.

1.2.3 P.R.1.2.5. RF Cavity drawing had now been provided. F. James will present the cavity design at the next ACOL Scientific meeting for approval.

F. James

Space problems near cavities: E. Jones noted that L. Rinolfi would continue to assess shim access difficulties and, as necessary, report to TICTAC. B. Autin felt that there would be no quadrupole shimming in the zero dispersion regions.

D. Cornuet drew attention to the space problems adjacent to the ejection and injection kickers due to the proposed additional bumpers. It was recognized that a specialist meeting should be convened to study this.

1.2.4 P.R.1.2.6. TICTAC Meetings: the established schedule would be maintained until end 1984. The programme for Jan-April '85 is attached herewith.

1.2.5 P.R.2.2. Covered walkway to service building: discussion led to the suggestion that an open walkway would suffice. H. Horisberger offered to make a proposal on this.

H. Horisberger

P.R.2.3. Rack Positions. S. Gustar had prepared a kit showing how racks might be arranged in the hall. Their distribution will be organised in conjunction with available space.

B. Williams
S. Gustar

2. AA-AC Transfer Line

2.1 R. Sherwood presented drawings of the injection zone and briefly outlined the magnetic elements in it. The possible positions of 3 steering magnets, 3 TV screens, a SEM grid for p profile were discussed.

The two proposed quads, old EP pulsed elements, might be powered by supplies currently used for the triplet upstream of the target.

H. Horisberger

An earlier meeting had requested that vertical steering be provided to mis-steer a proton test beam and fill the ACOL aperture. The best position would be close behind the mirror plate of QFC 5401. This might be taken into account during the design of QFC 5401.

Other equipment such as beam diagnostics, vacuum pumps, etc. would need space in the line. For the next TICTAC the drawings presented should include these components.

F. Malthouse
H. Koziol
T.R. Sherwood

The question of making permanent magnetic elements was discussed. J. Vlogaert was asked to prepare a cost estimate for the small dipole.

J. Vlogaert

3. Cooling Lines for AA-ACOL

Action

- 3.1 G. Carron spoke on this topic. With a layout of the machine he showed the proposed cooling line routes for ACOL and the modified AA.

The number of amplifier racks had now been reduced to 4 and a suitable zone for their installation was discussed, possibly in zone B in an existing rack-area. This will be studied further with V. Chohan in the Jan-Feb shutdown.

C. Carron
V. Chohan

The ACOL cooling lines would be at a level of 2.50 m, with the amplifiers being water-cooled to dissipate 60 kW.

The AA pre-cooling lines and stack tail Δp would pass in much the same way as at present.

All lines would be made in dismantable sections.

8 drums of cable-harmonic filters would be placed in the centre hall, along the long axis.

The present harmonic filter system would be dismantled for ACOL operation.

4. Miscellaneous

- 4.1 Shielding. The idea had been mooted that if the existing inner shield (presently supported above the bus-bars) could be lowered to floor level a considerable saving in concrete might be achieved. This entails a re-design of the electrical and cooling water distribution to the AA. B. Williams was asked to look further into this.

B. Williams

5. Next Meeting

The next meeting of TICTAC will be held at 14.00 h on Thursday 13.12.1984 in the Large PS Conference Room.

B. Williams