

SUMMARY RECORD OF THE 11th MEETING OF TICTAC HELD ON 25.10.1984

Present: O. Barbalat, G. Benincasa, V. Chohan, D. Cornuet, L. Coull, D. Dekkers, D.C. Fiander, H. Horisberger (Chairman), C.D. Johnson, E. Jones, F. Malthouse, P. Marchand, S. Maury, K. Metzmacher, S. Milner, P. Pearce, J.-P. Quesnel, P.L. Riboni, L. Rinolfi, T.R. Sherwood, A. Sullivan, S. Talas, H. Ullrich, J. Vlogaert, F. Völker, B. Williams (Secretary), E.J.N. Wilson.

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Agenda

	<u>Action</u>
1. <u>Record of the Previous Meeting</u>	
1.1 <u>Correctness</u> No corrections to the record were received.	
1.2 <u>Matters Arising</u>	
1.2.1 P.R.1.2.1. Future access to target zone: R. Horne explained that 3 alternatives for access to the zone had been studied. One that called for standard shielding blocks, lowered to the gallery via the vertical shaft and rolled into a chicane was the most acceptable and hence retained. In the ramp access area, an interlocked door was called for. The cover of the vertical shaft would also be interlocked. The CERN "pompiers" it was recognized, should be consulted on emergency escape routes, etc. Following a question from D. Fiander, the chairman asked that TIS be consulted also on the closed circuit filtration system of the corrosive air in the target zone.	A. Sullivan A. Sullivan
1.2.2 Plasma lens: C.D. Johnson would be asking H. Riege for details of the expected power requirements. H. Horisberger had asked SB to install extra conduits in the service building. Hence, if more power necessary, provision had been made.	
1.2.3 P.R.1.2.3. Bending magnet currents: it was agreed that the nominal current values quoted in Annex 1 to the previous minutes should be modified to 2050 A (from 2090 A) and to 2550 A (from 2554 A).	
1.2.4 P.R.1.2.5. Written confirmation had been received that Bldg 366 could be used for ACOL.	
1.2.5 P.R.1.2.8. Quadrupole adjustments. TICTAC agreed to this proposal.	
1.2.6 P.R.2.3. Bending magnet chambers were now being designed.	
1.2.7 P.R.2.4. Controls cost estimates had been sent to O. Barbalat (1,1 MSF).	
1.2.8 P.R.5.1. Shielding. A plan of the machine shielding had been received and would be passed over to SB for their approval. E. Jones proposed that S. Maury assist A. Sullivan in identifying beam losses - a vital input to the next shielding discussions.	
1.2.9 P.R.6.1. He ring main. No recent developments made but H. Ullrich was asked to study the emplacement of the compressors under the pump room.	S. Maury A. Sullivan
2. <u>Plannings</u>	
2.1 B. Williams summarized recent modifications made to the planning. He distributed provisional copies (issue D) with a request that any further comments be made to him no later than 1 Nov. 84. This would enable a definitive issue E for the next TICTAC.	
3. <u>Demineralized Water Cooling Proposal</u>	
3.1 H. Ullrich outlined the existing 3 mW system and in tabular form presented the characteristics of the new plant. Of two possible variants PS/PO preferred the combined system. The question of what was best for machine operation was discussed concluding with E. Jones proposing that the combined system (proposition 1) be adopted - with good leak-proof valves.	

	<u>Action</u>
3.2 L. Coull was asked to study and report on the idea that the Booster production plant for the denim water might be jointly financed with other users.	L. Coull
4. <u>Vacuum System Status</u>	
4.1 The distribution of the vacuum pumps around the machine was indicated by F. Malthouse. The power supplies for the pumps would no longer be taken from AA meaning that ACOL would have its own vacuum control system - grouped in approximately 12 racks.	
4.2 The status of the position pick-up design was also presented by F. Malthouse. He requested also, that the sections of the machine in which multipoles might be added, be identified to the vacuum section in order that a common vacuum chamber design be started.	B. Autin
4.3 Discussion on the RF cavity pumping led to S. Talas showing a scheme with an amplifier rack between the adjacent quad. and the passerelle. As this configuration obviated access to the quad. further study was requested to move the rack inside the ring.	S. Talas
4.4 Space difficulties for the cavity pumps are acute. E. Jones proposed that pumping via the co-ax tuning line be investigated.	F. Malthouse S. Talas
5. <u>Convention for Magnets/Supports</u>	
5.1 H. Horisberger stressed the need to label drawings in a uniform and unambiguous manner. The direction of the \bar{p} beam should be indicated and in the case of the magnets the connections would be to the outside of the ring with the inter-coil connections on their downstream ends. As a general rule the beam should be drawn from the left as seen from inside the ring. See also Annex 3.	
6. <u>Miscellaneous</u>	
6.1 S. Maury having further developed the dog-leg injection scheme showed that 5 quads can be narrow (ACOL), 2 others would be radiation hard, and 3 standard, existing quadrupoles. The 4 dipoles would be ACOL wide type, 1 being radiation hard.	
6.2 K. Metzmacher drew attention to his requirement for an extension to the platform for extra kicker drums. The implications of this on the shielding and cooling lines are such that a separate meeting should be arranged to discuss them.	H. Horisberger
6.3 <u>TICTAC Meetings</u> . As the project develops it is clear that more frequent meetings are necessary. B. Williams was asked to determine with M. Martini a suitable schedule, that would effectively alternate with scientific meetings.	B. Williams M. Martini
7. <u>Next Meeting</u>	
The next meeting of TICTAC will be held at 14.30 h on Thursday 15.11.1984 in the Large PS Conference Room.	