

Summary Record of the 16th meeting of TICTAC held on 07.02.1985

Present : B. Autin, X. Brunel, D. Cornuet, S. Gustar, H. Horisberger (Chairman), R. Horne, M. Hourican, C.D. Johnson, E. Jones, F. Malthouse, P. Marchand, S. Maury, J. Pasquali, P. Pearce, B. Pincott, L. Rinolfi, T.R. Sherwood, A. Sullivan, F. Völker, B. Williams (Secretary), D.J. Williams, E.J.N. Wilson, M. Zanolli

	<u>ACTION</u>
1. <u>Minutes of the last 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 <u>Detailed Plannings</u> had been received for the ACOL bending magnets : septa : "new" magnets AA-ACOL : vacuum equipment and AA modifications ( due for an early up-date). Still outstanding were those for the ACOL quads (L. Rinolfi) R.F. cavities (W.Pirk1, A. Susini); Injection Line (C.D. Johnson); Gallery (H. Horisberger); ACOL-AA Transfer (R. Sherwood); Stochastic Cooling equipment (G. Carron); Services (F. Völker).	B. Williams
1.2.2 P.R.1.2.3 <u>Special Bending Magnet (BHS 5207)</u> . B. Autin explained that this element is still under study. Its outline would be as for a BHN. It is likely to be the last ring dipole to be delivered and installed.	
1.2.3 P.R.1.2.3 <u>Polarity Reversers</u> : F. Völker noted that polarity reversers would be placed down in the ring or next to the power supplies.	
1.2.4 P.R.2.1 <u>RF Cavity power amplifier</u> : P. Marchand reported that the position of the amplifiers may be changed to inside the ring.	
1.2.5 P.R.2.1 <u>Turbo Molecular Pumps</u> : F. Malthouse confirmed that the TMP's could be moved up and the cryo pumps to the outside. H. Horisberger asked that the latest cavity drawings be sent to B. Williams. P. Marchand noted that 9 racks were now required for the RF cavities (Bunch Rotating) and not 15 as originally envisaged. On the topic of fast-turning he clarified that the 60kFs previously quoted was for each cavity. B. Autin asked that this study continue.	S. Talas W. Pirk1
1.2.6 <u>Re-bunching Cavity</u> : B. Williams had checked the area adjacent to BLG 1106 and concluded that the red-button on the latter should be relocated to the upstream end of the magnet.	B. Pincott
2. <u>Shutdown Planning</u>	
2.1 B. Williams gave an overview of the present shutdown progress. The trepanning of 10 holes in the target zone had been problematic but was not likely to be late. It had been seen that a small pump should be installed in the newly-constructed ejection line trench. At the moment all shut-down activities are on schedule.	F. Gamba B. Williams
3. <u>Water Connections to Magnetic Elements</u>	
3.1 H. Horisberger explained that SPS-type hoses and fittings could be used. He had discussed this topic with all concerned and it was agreed that B. Pincott look after the hoses and fitting for all magnets. "Walter" quick-release couplings had been envisaged for the dipoles. H. Horisberger felt that although these would be OK for the test programme, they should be replaced, for ring installation, by SPS screw type fittings. TICTAC accepted the recommendation that the ACOL main ring magnets be standardized on SPS hoses and fittings.	B. Pincott J. Vlogaert L. Rinolfi B. Pincott

- 3.2 The meeting then discussed the question of isolation valves for main ring elements. The conclusion was that quarter-turn valves should be fitted to water inlet and outlet but only in conjunction with temperature control devices as presently used on AA magnets. Also, if the AA distribution system is modified the same philosophy will apply, i.e. valves will be fitted. H. Ullrich
4. Space for Beam Pick-up Amplifiers
- 4.1 A proposal from D.J. Williams would have some amplifiers on the side of the quads and some on top. These positions being relative to the vacuum feed-through configuration. It was seen that, as long as the boxes were not in position during the crane-handling, the proposed positions were acceptable. D.J. Williams was asked nonetheless to check with the survey group, that they also agree. L. Rinolfi  
D.J. Williams
5. Relocation of AA Septum Power Supply
- 5.1 At the 7th meeting of TICTAC it had been proposed to move the septum power supply to the corner of zone B. It had been recently recognised that the power limitations required that the supply be installed much nearer to the septa. In the context of space allocation in the hall, B. Williams indicated the most convenient position i.e. centre ring area in front of kicker platform, this would effectively shorten the cable length to an acceptable degree. This would mean one layer of cables (2 x 12) run below the kicker platforms and bus-bars. Subject to approval by D. Fiander this work will be carried out in the June-July shutdown 1985. PS/BT  
PS/PO
6. Crane Modifications
- 6.1 The installation of shielding blocks and beams in the areas close to the walls of bat.193 is difficult due to the fact that the existing crane hooks 50t. and 5t. do not cover those areas. SB have therefore been asked to consider modifications to the cranes in order to facilitate the shielding programme.  
B. Williams gave a brief status report noting the two ideas currently under consideration.
- a) The addition of a longitudinal beam welded to the main box-section girder of the crane and carrying a "palan" of 8 tonnes capacity. The disadvantage of this scheme is that the cabin would have to be blocked in a position far from much of the area being served. Cost  $\approx$  50KFs/crane.
- b) The addition of a secondary chariot blocked to and hence moving with the cabin. The secondary chariot would carry a short transverse beam which would be equipped with an 8t. "palan". No cost estimate yet available. S.B. will be asked to pursue this idea further. B. Williams
7. Magnet Colour Schemes
- 7.1 E. Jones proposed that as in the AA, quadrupoles be painted red, and dipoles blue.
8. Next Meeting
- The next meeting of TICTAC will be held on Thursday the 21th February 1985 at 14.30hrs. in the Large PS Conference Room.