

SUMMARY RECORD OF THE NINTH MEETING OF TICTAC HELD ON 16th July, 1984

Present: G. Benincasa, V. Chohan, D. Cornuet, D. Dekkers, D. Fiander, H. Horisberger (Chairman), R. Horne, F. James, C.D. Johnson, P. Marchand, S. Milner, M. Paoluzzi, P. Pearce, A. Poncet, L. Rinolfi, J. Schmitt, R. Sherwood, F. Völker, B. Williams (Secretary).

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<u>Agenda</u>	<u>Action</u>
1 <u>Record of the previous meeting</u>	
1.1 <u>Correctness</u>	
1.1.1 P.R. Item 2 - The word Planung should read Planning	
1.1.2 P.R. Item 2.1 - The word "controls" should read "Camac Crates and Modules".	
1.2 <u>Matters arising</u>	
1.2.1 P.R. 1.2.3 Bending Magnet Chambers. - A. Poncet noted that the referred to difficulties had been resolved but that contrary to the report at TICTAC N° 7 of the 22 June 1984 the bending magnet chambers will be designed at CERN by PS/ML.	
2 <u>Planning</u>	
2.1 H. Horisberger noted that tender formalities for the upgrading of the target zone will be complete early in 1985. - first cost estimates point to approx 500 KFS. Discussion on this topic centred on the access to the target zone from the AA ramp via a gallery, and on the associated safety aspects. R. Horne was asked, in collaboration with D. Dekkers, to produce a scheme to satisfy the access conditions.	R. Horne D. Dekkers
2.2 It was still hoped that construction of the new service building would be finished by the end of this year. C.D. Johnson noted that the available power was quite adequate for the foreseen injection line. D. Fiander agreed but felt that Plasma Lens requirements should be already considered as well as extra cable ducts. The holes from the service building to the target zone could probably best be drilled in the Jan/Feb 1985 shut-down. This activity would have to be coupled with the re-routing of the existing cable-trays and water pipes in the target zone.	C.D. Johnson B. Williams
2.3 It was now seen that end-dates for the vacuum chamber design had been too optimistic - they would be reviewed for the next up-date of the planning. A. Poncet noted that for the ML/VAC section M. Brouet would be the person concerned with the large diameter vacuum tanks.	

	<u>Action</u>
2.4 Under the topic "Controls" it became evident that it is time to specify what instrumentation is needed. It is also necessary to know how many new racks are required and by whom? F. James explained that not much more detailed information on the RF cavities would be likely until early 1985 due to S. Tales being fully occupied. He was asked to confirm, nonetheless, the external dimensions of the cavities by the end of August.	F. Malthouse C. D. Johnson D. Fiander  F. James
2.5 F. Völker requested, for the record, that the quadrupole currents were now "frozen" but that the bending magnet currents are still to be confirmed by J. Vlogaert.	J. Vlogaert
2.6 D. Fiander asked how the meeting felt about feeding AA and AC from the same supplies. H. Horisberger noted that this was much concerned with the not-yet-specified hall access conditions.	
2.7 As SB are soon to start the study of building 366 extensions, F. Völker asked for confirmation that this building was to be used for ACOL. H. Horisberger will obtain this confirmation. D. Dekkers asked that it be remembered that the ventilation system of bat. 366 is on the PS interlock chain. C. D. Johnson will look further into this matter.	H. Horisberger
2.8 B. Williams reported that the detailed magnet planning had been started. H. Horisberger proposed that all groups prepare their own detailed charts which should then be transmitted by the end of October to B. Williams for inclusion in the general planning.	TICTAC
3. <u>Ejection Line</u>	
3.1 H. Horisberger presented the latest drawing of the ejection line and trench. SB had looked into the question of the hall foundations and had approved the trench as shown on the drawing PS-C-0247-00-0. This would be used as the basis on which a DT would be established with a view to sinking the trench in the Jan/Feb shutdown of 1985.  H. Horisberger asked that all concerned be given a copy of this drawing for their appraisal and early comments at the scientific meeting" of 30th August 1985 during which final approval for the ejection line, as presented, would be sought.	B. Williams  B. Williams S. Maury
3.2 D. Cornuet explained, with a drawing of the region, how difficult the access is to the connections on BTI 8005. He requested that the nearby shielding be moved to facilitate access. He also asked for details of the adjacent jacketed chambers of the AA.	B. Williams
4. <u>Magnet Support Systems</u>	
4.1 RAL had provided assembly drawings of motorised support system for the narrow quads. The screw jacks drawn were es-ISR jacks of 7.5t capacity. H. Horisberger noted that the survey group had agreed to the principle. A set of the latest drawings would be supplied to them.	

Action

F. Völker asked how much movement of the magnet and cables was required? An earlier meeting of 27.3.84 had decided that  $\pm 3$  mm vertical movement was necessary. The transverse movement however was not known and should be communicated.

B. Autin  
F. Malthouse

It was intended to build and test a prototype of this system, detail design of which would be finished in September 1984. It had been learned that no off-set quads would be motorised.

5. Recent ACOL Layouts

- 5.1 B. Williams reported on the present status of the ACOL Layouts and sections. Drawing PS-C-0248-02-0 showed the two machines in position with much of the existing AA infrastructure and the foreseen AA and ACOL cooling lines. Additions to this plan view would be reported as they were made.

The external firm SETEP had made a number of cross-sections around the machine, and these were also shown to the meeting. The layout of the area containing the ACOL cavities was requested by F. James. The immediate requirement of these cross-sections is to show how the shielding can be installed. SETEP are actively designing this.

B. Williams

6. Miscellaneous

- 6.1 B. Williams reported on a recent conversation with J. Freeman and S. Gustar in which access conditions to the inner ring area, with a stacked beam in AA, were discussed. J. Freeman had written some comments on this topic, and, in agreeing with the general ideas expressed, H. Horisbeger proposed to call a meeting, in the near future, to define these requirements.

7. Next Meeting

The next meeting of TICTAC is provisionally fixed for Thursday the 13th September 1984 at 14:30 hrs in the large PS Conference room.

B. Williams

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