

SUMMARY RECORD OF THE TENTH MEETING OF TICTAC HELD ON 13th SEPTEMBER 1984

Present: B. Autin, O. Barbalat, G. Benincasa, D. Fiander, F. James, E. Jones (Chairman), F. Malthouse, P. Marchand, S. Maury, S. Milner, P.L. Riboni, R. Sherwood, A. Sullivan, J. Vlogaert, F. Völker, E.J.N. Wilson, B. Williams (Secretary).

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Agenda

	<u>Action</u>
1. <u>Minutes of the previous record</u>	
1.1 <u>Correctness</u> - The date 16th July 1984 should read 16th August 1984.	
1.2 <u>Matters Arising</u>	
1.2.1 P.R. 2.1. Future access to target zone: E. Jones noted that the question of a chicane or door from the ramp had not yet been resolved - it should appear on the next TICTAC agenda.	D. Dekkers R. Horn
1.2.2 P.R.2.4. D. Fiander asked that C.D. Johnson be asked to comment on the idea that power requirements for the plasma lens would be the same as for the li lens.	C.D. Johnson
1.2.3 P.R.2.5. Bending Magnet Currents. E. Jones proposed that the nominal currents as quoted in the specifications have a + 5% upper limit applied to them. - <u>SEE ALSO ANNEX 1 OF THIS SUMMARY RECORD</u> -	
1.2.4 P.R.2.6. D. Fiander noted that AC and AA kickers will be fed from a single circuit breaker unless otherwise specified. Discussion followed on flashing lights (HV) on kickers - a reappraisal of this topic will be made for ACOL installation.	D. Fiander
1.2.5 P.R.2.7. Bat 366. F. Völker had received verbal confirmation that building 366 would be used for ACOL.	
1.2.6 P.R.3.1. Ejection Line Trench: B. Williams had issued a D.T. to SB for the Trench according to drawing n ^o PS.C.0247.00.0.	
1.2.7 P.R.3.2. Access in section 1 - Williams reported that a layout was being drawn that would help identify and resolve space problems in this area.	
1.2.8 P.R.4.1. Quadrupole adjustments: E.J.N. Wilson proposed that the cables allow $\pm 10\text{mm}$ in both the horizontal and vertical planes.	
1.2.9 P.R.6.1. Access to hall with beam coasting in AA: E.J.N. Wilson summarised the results of a meeting on this topic held on 30.8.84. The conclusion had been to build a "lions cage" passage to the people-proof inner shielded area into which all AA and AC controls racks would be installed.	

	<u>Planning</u>	<u>Action</u>
2.1	It was reported by B. Autin that draft specifications for the cooling electronics and hardware will be issued soon.	
2.2	F. Malthouse felt that the quadrupole vacuum chamber design had slowed up but that the visit next week by H. Jones would accelerate it.	
2.3	J. Vlogaert requested that 1 of each type of bending magnet vacuum chamber be provided for him by May 1985.	F. Malthouse
2.4	O. Barbalat asked for an early estimation on controls expenditure.	G. Benincasa
2.5	Further to the recent Group Leaders meeting, E.J.N. Wilson reported that no new console was foreseen in the ACR.	
3.	<u>ACOL Budget</u>	
3.1	O. Barbalat gave an overview of the ACOL budget. He explained that the way in which ACOL is financed means that a very tight control on ACOL contracts and spending will be exercised. All concerned were advised to check all budget codes used up to now. O. Barbalat was available to assist in all questions of the budget and its administration.	
3.2	<u>Space Requirements</u>	
	This question will be again raised with LEP in January.	
4.	<u>Injection Line</u>	
4.1	S. Maury informed on a preliminary scheme from the li lens exit which called for 4 bending magnets and 10 quadrupoles in a configuration that satisfies the set conditions. Of the 10 quads, 2 would be new pulsed radiation hard quads, and of the bendings - type ACOL BHW - one would be radiation hard. E. Jones noted that once this line design had been stabilised the relative merits of the dog-leg versus straight solution should be considered at an ACOL scientific meeting, along with their cost estimates.	
5.	<u>Shielding</u>	
5.1	The most recent shielding drawings as prepared by SETEP were presented by Williams. They showed three quadrants of the machine covered and the sections through the machines gave some idea of how the roof could be supported. A. Sullivan felt that the proposition for zone D-A was adequate. The opposite zone B-C was too weak and should be strengthened near the wall of the hall - to be further studied.	B. Williams

- | 6 | <u>Helium Ring Main and Compressors</u> | <u>Action</u> |
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| 6.1 | The general concept of a helium ring main was discussed and agreed to. Further discussion centred on compressor philosophy - 1 big compressor or 6 small ones? - This is to be further studied for reliability and cost.
The compressor/s it was felt should be outside the hall - possibly in the demin water plant or equipment room? | S. Milner |
| 7. | <u>Next meeting</u> | |
| | The next meeting of TICTAC will be held at 14:30 hrs on Thursday the 25th October in the Large PS Conference room. | |

B. Williams

Distribution → Tictac list

A N N E X 1

(to summary record of TICTAC N° 10- 13 sept.84)

Subsequent to the TICTAC meeting of 13 Sept. and following a discussion between B. Autin; J. Gruber; J. Pasquale; J. Vlogaert; F. Völker the nominal currents of the ring magnets had an upper limit of + 10% added, to become:

<u>Nominal Current In</u> (according to magnet spec.)		Maximum Operational d.c. output current of the main power supplies (In x 1.10)*
QN	1900 A	} 2090 A
QW	1800	
BHW	2322	2554 A
BHN	2322	2554 A

* This will not modify the number of cables (<6) foreseen for each circuit.