

SUMMARY RECORD OF THE EIGHTH MEETING OF TICTAC HELD ON 19 July 1984

Present: G. Carron, V. Chohan, J. Gruber, H. Horisberger (Chairman),
C.D. Johnson, E. Jones, F. Malthouse, S. Milner, J. Pasquali,
P. Pearce, F. Pedersen, P.L. Riboni, A. Sullivan, J. Vlogaert.

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<u>Agenda</u>	<u>Action</u>
1 <u>Record of the Previous Meeting</u>	
1.1 <u>Correctness</u> - No corrections to the previous record were received	
1.2 <u>Matters arising</u>	
1.2.1 P.R. 2.1 New Service Building - H. Horisberger noted that the deadline for the ordering of this building was the end of July. He asked that any changes be defined before then and that electrical power requirements be also verified.	C. Johnson
1.2.2 P.R. 4.1 Ejection Line Trench. The trench previously considered would cut into the hall foundation. To obviate this the trench should be made more shallow. S.Maury was asked to study these aspects.	S. Maury
1.2.3 P.R. 5.3 Bending Magnet Vacuum Chambers. F. Malthouse reported that the difficulties recognised at the previous meeting had now been resolved.	
1.2.4 P.R. 6.2 The ferrite elements noted as "dumpers" should be called "dampers"	
1.2.5 P.R. 6.3 Injection System - The question raised at the previous meeting has still to be answered. i.e. is 30 cm space between QFN 5601 + adjacent ferrites adequate?	B. Autin
2 <u>Plannung</u>	
2.1 Using the General Construction Planning bar chart H. Horisberger gave an overview of progress to date. It was seen that, broadly speaking, the civil engineering activities were on target, as were the ring magnets. Septa, cooling systems LF & HF, and injection, ejection kickers. Of the vacuum activities the machine magnet chambers were not on schedule and the injection/ejection vacuum lines were still to be defined.	

The section of the planning devoted to "Controls" still remains open. This section will be detailed prior to the TICTAC meeting of October. Under "Services", design studies are delayed but not with any foreseeable consequence on the end date.

V. Chohan

3. Electrical Distribution to ACOL-ring

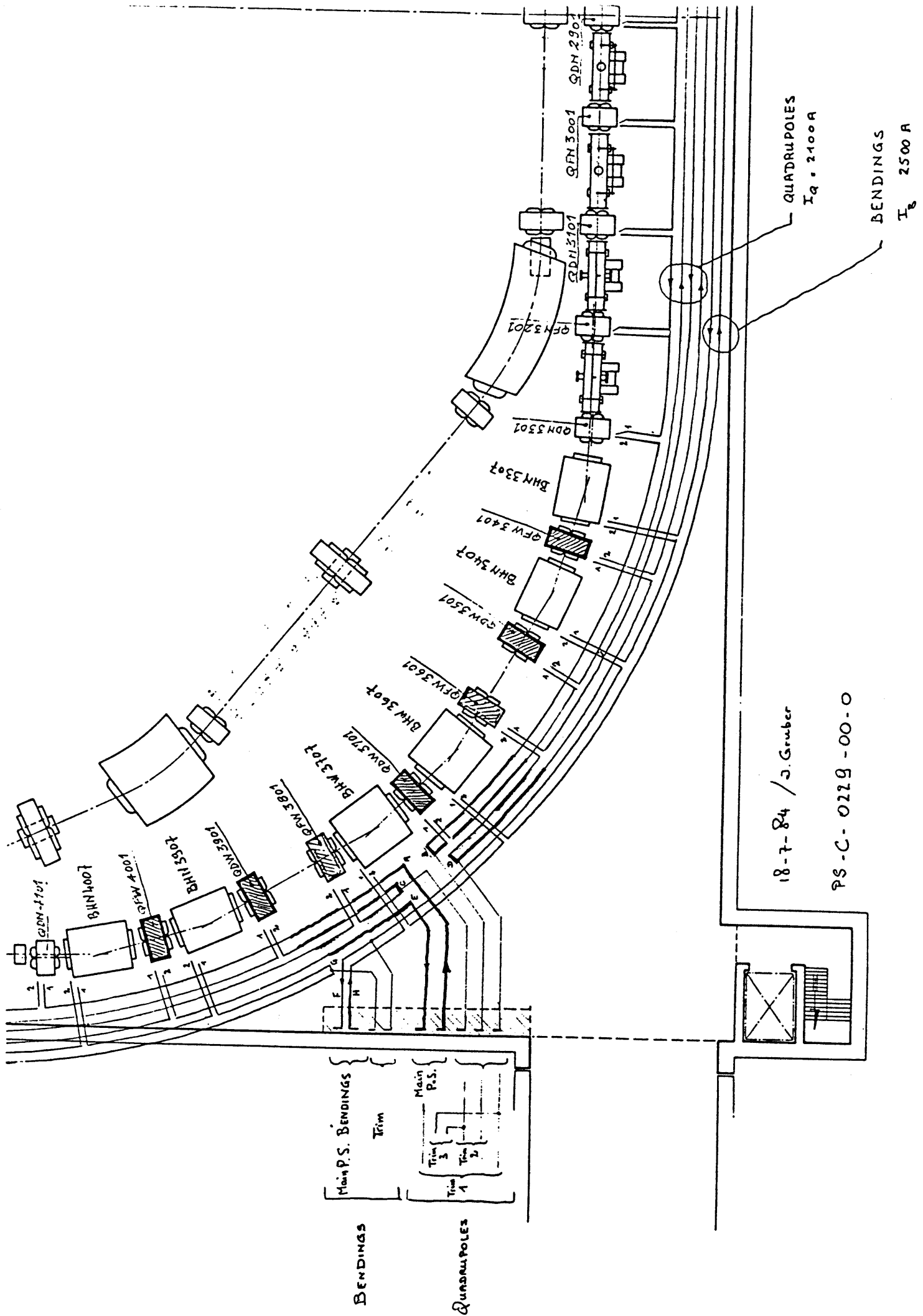
- 3.1 J. Pasquali in presenting this topic made a resumé of the elements to be powered and their numbers He presented a scheme for powering the bending magnets which called for two circuits - 1 principal power supply and 1 trim.
The scheme for powering the quadrupoles was based on 4 circuits - 1 principal power supply and 3 trims. Copies of the schemes are attached herewith.
- 3.2 The arrangement of the cabling around the machine was also presented schematically. For the bending magnets 6 cables/circuit and for the quads 5 cables/circuit. The copper cables would be of section 240 mm².
Power dissipation in such an arrangement would be in the order of 100 Kw.
- 3.3 The layout of power supplies and trims in building 366 was also indicated, as well as the external cable liaison to Hall 193. The layout of equipment in 366 is currently under revision.
- 3.4 Also noted was the proposed new 18kv HT distribution line to 366 via 193.
- 3.5 C. Johnson asked whether enough power would be available if the target area should need some extra. He was assured that there would be sufficient.
- 3.6 H. Horisberger presented the latest proposal for the cooling water distribution - two new manifolds would be placed adjacent to the cable trays/passarelle - the advantages to installation and operation were clear and TICTAC approved this proposal.

4 R. F. Cavities

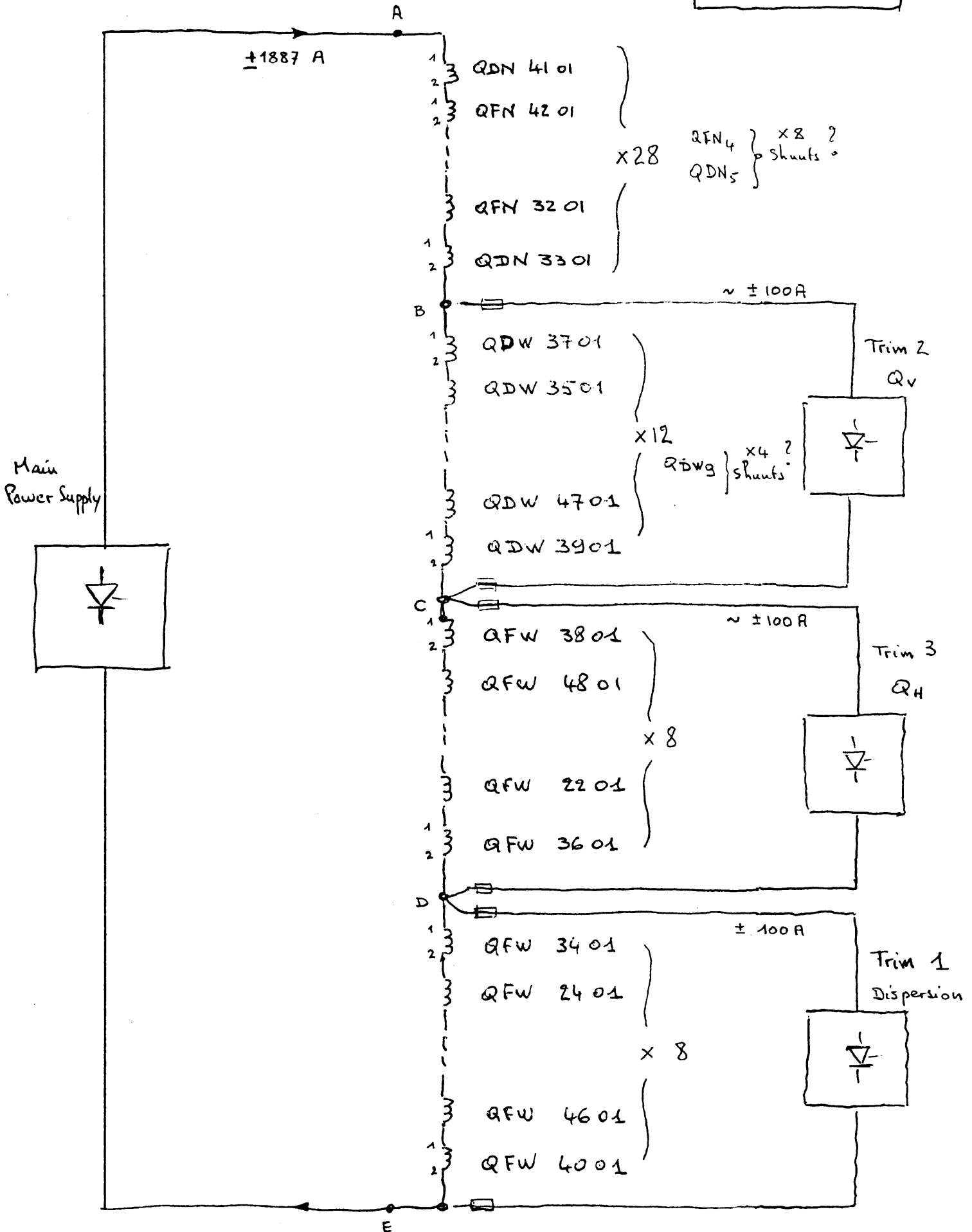
- 4.1 Using drawings of the sections containing the RF cavities H. Horisberger drew attention to the tight space requirements. It was seen that physical measurements will have to be made in those zones to confirm the design values, and this at the earliest opportunity.
- 4.2 W.PirkI had made known his space requirements for the cavity power supplies etc., amounting to some 57 m² plus 9 racks. Nb. the bunching cavity requirements would be, in the worst case 6 m² plus 4 racks. The question was raised whether this equipment might be better mounted on a platform ? - to be further studied.

		<u>Action</u>
5	<u>Miscellaneous</u>	
5.1	With both machines in position and shielded, access to zones B & C would be very limited on the outside of the rings. It is vital therefore that a passage under the crane passerelles be left open in order to transport equipment between the two cranes.	B. Williams
6	<u>Next meeting</u>	
	The next meeting of TICTAC will be held on Thursday the 16th of August 1984 at 14:30 hrs in the large PS Conference room.	

B. Williams



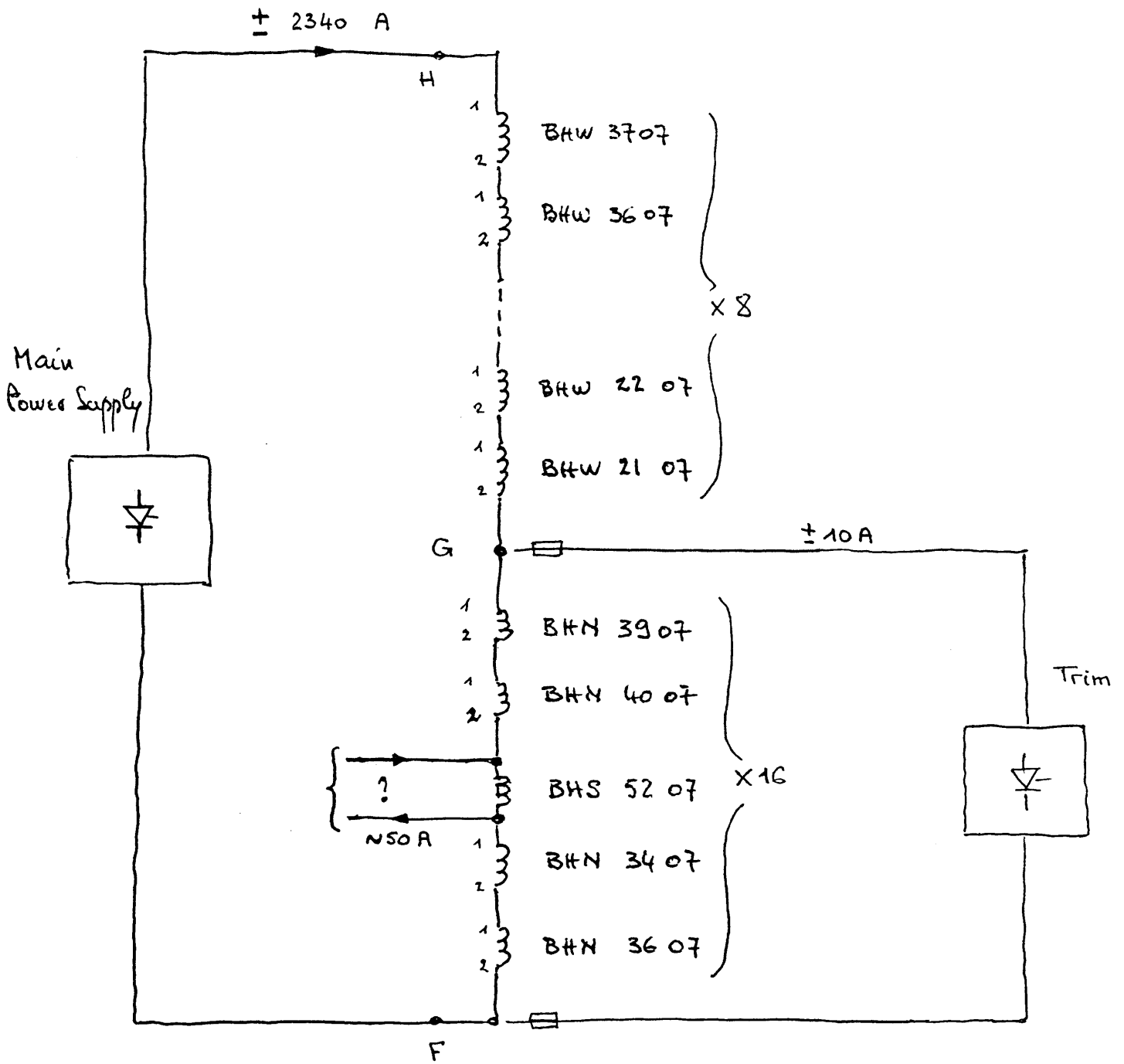
QUADRUPOLES



Quadrupoles connections :
View X PS-C-0022 / specification.

QUADRUPOLES POWER SUPPLIES
17-7-84 / J. Gruber

BENDINGS



BENDINGS POWER SUPPLIES

17-7-84 / J. Greber

TICTAC LISTDistribution

O. Barbalat
G. Benincasa
G. Carron
V. Chohan
D. Cornuet
D. Dekkers
H. Horisberger
R. Horne
E. Jones
F. Malthouse
S. Maury
S. Milner
F. Pedersen
B. Pincott
J.P. Quesnel
L. Rinolfi
T.R. Sherwood
A. Sullivan
A. Susini
J. Vlogaert
F. Völker
B. Williams

For Information

B. Autin	B. Kuiper
Y. Baconnier	M. Martini
R. Billinge	M. Mayoud
P. Bossard	C. Metzger
M. Bouthéon	J. Pasquali
G. Brianti	P. Pearce
J. Buttkus	W. Pirkl
L. Coull	A. Poncet
F. Ferger	P.L. Riboni
D.C. Fiander	J.C. Schnuriger
J. Freeman	C. Taylor
B. Gay	L. Thorndahl
J. Gervaise	H. Ullrich
B. Godenzi	H.H. Umstätter
J. Gruber	S. van der Meer
C.D. Johnson	E.J.N. Wilson
H. Koziol	