

Note to Controls Operators No. 1

N 1

1. Filling of the General Log Sheet

1.1 ONLY Source of information for the programme

DAILY INSTRUCTIONS TO E.i.C., in which each week day is covered by

- (i) a copy of the official "PS OPERATIONS" issue for the week with hand-written corrections if any.
- (ii) any more detailed programme if necessary and available.
- (iii) special Security Instructions if any.

IT IS REMEMBERED THAT THE SECURITY CONDITIONS TO BE SET UP ARE AS FOLLOWS :

- For Technical Development : Full acceleration with INTERNAL BEAM
ACCESS XXXXXXXX (Check lists C 1, C 2, C 3)
 - For Technical Development : Full acceleration with EXTERNAL BEAMS
ACCESS oooooooo (Check lists C 1, C 2, C 3, C 4 - Extension
 of the Experimental Area to be indicated
 by Safety officer)
 - For External Beams : same
indicated by capital
letters, e.g. B, C, L, etc.
ACCESS oooooooo
 - For LINAC and MAGNET : see appropriate instructions
TESTS
ACCESS =====
- /////////
or combination

- 1.2 TARGETS have to be indicated with the full designation (see "PS OPERATIONS") only in the upper part of the sheet in correspondence of the EXPERIMENTER. For the ON-OFF column an abbreviation has to be used, such as the straight section number (O1 or O2, etc..) complemented by material and thickness, if ambiguous. The target radial position has to be recorded at the beginning of operation and whenever is changed.

1.3 MACHINE FAULTS

It is remembered to inscribe under SYSTEM the part of the machine in which the fault has occurred, e.g. LINAC, MAGNET, etc., and the FAULT REPORT Number.

1.4 BEAM TRANSPORT FAULTS

Under the name of BEAM TRANSPORT have to be included the BENDING MAGNETS and the QUADRUPOLES which define the external beams, both in the target area and in the south hall, with their associated equipment such as the GENERATORS in the SOUTH GENERATOR BUILDING and the COOLING. Also for these faults, the normal FAULT column has to be used, with BEAM TRANSPORT under SYSTEM.

Any other details, such as BENDING MAGNET No. ... etc., have to go under DESCRIPTIONS.

1.5 NUMBER OF PULSES (bottom of the sheet)

Remember to write down such numbers both at the beginning of the shift or run and at the end on the same sheet. This enables one to make on immediate calculation of the number of pulses for the shift or run concerned.

1.6 IRREGULARITIES, such as beam instability, have to be written down especially in the REMARKS column.

2. Issue of dosimeters

It has been noticed that machine time is lost quite unnecessarily for this. The following procedure has to be applied strictly from now on :

2.1 After having taken over your shift, at the earliest convenience, inscribe in the book the numbers and the readings of, say, five dosimeters (leaving them in place !) so that, when you have to issue them, only the name of the person has to be written down, together with the issue hour. You may inherit the inscription from the previous operator : in such a case, check simply that the readings are still correct. For shifts in which a change over to external beams or a patrol is foreseen, the number can be increased to 10 or 15

2.2 When you receive the dosimeter in return, put it back in place immediately without reading it. You can complete the inscription with the reading (leaving the dosimeter in place !) and the return hour at the earliest convenience.

N.B. If the difference between the issue and the return readings is higher than, say 10 or 20 mr, warn J.Y. Freeman.

3. Announcements before restoring the beam and during acceleration

3.1 To the Ring

- When somebody has been into the Ring with a dosimeter, before restoring the beam give always the announcement.

"ATTENTION - ACCELERATION IS ABOUT TO BEGIN. IF YOU ARE IN THE RING PUSH AN EMERGENCY STOP".

"ATTENTION - L'ACCELERATION VA COMMENCER. SI VOUS ETES DANS L'ANNEAU APPUYEZ SUR UN ARRET D'URGENCE".

An indicating lamp, reminding this to the operator, will be installed in the Control Desk.

- During acceleration, remember to give every half-an-hour in day-time and every hour in night-time the repetitive announcement (4th - tape recorder 236 - End.)

3.2 To South Hall

When somebody has been into the South Hall with a token, before restoring the beam give always the announcement :

"ATTENTION - FAISCEAU DES MAINTENANT".

"ATTENTION - BEAM AS FROM NOW".

4. Miscellaneous

- 4.1 In taking-over the shift, look always into the blue book INSTRUCTIONS TO CONTROLS OPERATORS. IT IS CARE OF E. RATCLIFF TO LOOK THROUGH THE BOOK EVERY WEEK AND TO PROPOSE TO G. BRIANTI or J.Y. FREEMAN MODIFICATIONS, ADDITIONS AND SUPPRESSIONS.
- 4.2 THE WARNING LIGHTS on the BEAM STATE have to be used ! The beam and target indications are in general automatic, unless otherwise specified, and for the rest it is simply matter of pressing a button !
SHORT PERIOD means few minutes.
LONG PERIOD 1/4 hour or longer.
- 4.3 THE APPROPRIATE CHECK LISTS have to be carried out very carefully at the beginning and end of operation and in passing to external beam(s). A tick has to be put with the grease pencil in correspondence of each action taken.
- 4.4 THE GREEN FILE marked INSTRUCTIONS contains the only valid instructions both for Security (Series SR, SH etc..) and for Operation (series O). The Controls Operator is involved in practically all of them. Take care of absorbing them in the quiet moments during operation.
- 4.5 THE KEY for the DOSIMETERS CUPBOARD, giving access to the key store, has to be taken always with you in taking over your shift.
- 4.6 When a DOOR is asked for SUSPENSION, (Control Desk - Bell and lamp) look at the appropriate TV and in general make sure the permission has been granted, before pressing the button.

5. Remarks

When you have ideas, suggestions, and criticisms on operation, please write them down on a piece of paper and send them to me.

G. Brianti

Distribution : (open)

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Controls Operators