

Re-assessment of the Master Programme.

1. At the last meeting of the Project Committee a re-assessment of the overall programme was requested as a result of the difficulties being encountered on the Civil Engineering Construction, and the major changes in the design of the machine itself.
It will be recalled that this change was due to the complete redesign of the Vacuum Chamber.
2. In considering the programme it became obvious at the outset that all available 'free time' had been neutralised by the six to nine months immediate loss due to changes in the design of the main vacuum chamber. Two approaches were therefore possible:
 - i. To modify the terminal date.
 - ii. To replan within the present time scale.We have chosen the latter.
3. In making the above choice, there are many difficulties due to the large number of major contracts which must mature simultaneously if the machine is to be constructed to time. It seems unlikely that this ideal state will be reached but it is believed, at this point in time, that a better result will be achieved by allowing the present completion dates to stand, and moving them back only when it is obvious which supplies, if any, are late.
4. The salient points which concern the replanned Master Programme are enumerated below:
 - 4.1. The vacuum vessel must be ordered by the 1st March, 1959.
The proposition therefore for single tender action made on technical counts is supported also from a programming aspect.
 - 4.2 Double tooling for the vacuum vessels will be essential.
 - 4.3 Installation of the vessels will have to take place in pairs.
This will require a larger peak construction force and more handling equipment.
 - 4.4 Consideration will have to be given to the vacuum testing of the outer vessel in situ.
 - 4.5 The delivery of magnet sectors will need to average six per week, and the last delivery be made by 28th February, 1960.
 - 4.6 The development period for the pole pieces should allow production to commence on 1st February, 1960 at the minimum rate of 14 per week.
 - 4.7 The magnet coils must be delivered by 31st December, 1960.
 - 4.8 The air conditioning plant must be available by 1st August, 1959 to allow the more important aspects of survey work to be completed.
 - 4.9 The Power Plant must be delivered to time.
5. A revised master programme for the whole project is attached herewith.
6. The approval of the Project Committee is sought for the policy of planning on the above basis in preference to setting back the terminal dates at this stage.

11th November, 1958

P. BOWLES.

REF.	DESCRIPTION	1958	1959	1960	1961	1962
	BUILDINGS		INJECTOR ROOM & CONTROL BUILDING COMPLETE MAGNET ROOM ROOF COMPLETE MAGNET ROOM COMPLETE LABORATORY AND OFFICES COMPLETE ALTERNATOR HOUSE AND EXPERIMENTAL AREA COMPLETE MAGNETIC SURVEY STARTS			
	MAGNET					
	INJECTOR					
	R.F. SYSTEM					
	VACUUM SYSTEM					
	POWER SUPPLIES					
	CONTROL SYSTEM					
	M & E SERVICES					
	OVERALL COMMISSIONING					

ISSUE DATE MOD No

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COLOR CODE

SPECIFICATION

TENDER ACTION

DESIGN

MANUFACTURE

INSTALLATION

COMMISSIONING

DRN:- GTS. TRCD:- J.F.M. CHKD:-

APPROVED:-

TITLE:-

7 GeV PROTON SYNCHROTRON. A.E.R.E. HARWELL

MASTER PROGRAMME

PROGRAMME NO.

00003