

QUARTERLY STATEMENT NO. 1

7 GeV PROTON SYNCHROTRON

1. This report is submitted in accordance with the decision made at the First meeting of the General Purposes Committee held on Friday, 6th September, 1957.
2. The Statement shows the expected divergence from the approved estimates, the expenditure and commitments up to the quarter ending the 12th October, 1957, and the anticipated contract action during the next quarter.
3. In Appendix I the original and revised estimates are shown. The revised estimate is now £7,030,000, compared with £6,900,000 in the original estimate. A breakdown of this shows:-
 - i) The Plant estimate is unchanged at £5,000,000.
 - ii) The revised Building estimate is now £1,960,000 compared with the original estimate of £1,900,000. The reason for this increase is given in a separate paper N.I.(G.P.)(57) 3.
 - iii) An additional item of £70,000 to cover the cost of an ancillary building is shown. A separate paper N.I.(G.P.)(57) 6 is submitted supporting this request.
4. Appendix II shows the expenditure and commitments up to the quarter ending on the 12th October, 1957.
5. Appendix III shows the contract action likely to be taken during the next quarter, together with the action sought from the General Purposes Committee.
6. Appendix IV shows the financial position in graphical form.

D. W. Fry
Chairman, Project Committee

A.E.R.E., Harwell.
7th November, 1957.

7 GeV PROTON SYNCHROTRONREVISED COST ESTIMATES 12th OCTOBER, 1957.£ MILLION

	<u>ITEM</u>	<u>ORIGINAL</u>	<u>REVISED</u>
1.	<u>MAGNET</u>		
	¹ Yoke	1.5	1.5
	Pole pieces	0.2	0.2
	Coils	0.6	0.6
	Special jigs and fixtures	0.15	0.15
	Installation	0.15	0.15
		<u>2.6</u>	<u>2.6</u>
2.	<u>INJECTOR</u>	0.3	0.3
3.	<u>R.F. EQUIPMENT</u>	0.15	0.15
4.	<u>VACUUM SYSTEM</u>		
	Vacuum chamber, pumps etc.	0.35	0.35
	Installation and sundries	0.05	0.05
		<u>0.4</u>	<u>0.4</u>
5.	<u>POWER SUPPLY</u>		
	Motor Alternator	0.6	0.6
	Ignitrons and firing circuits	0.2	0.2
	Flywheels, bearings, bedplate	0.1	0.1
	Cabling, installation etc.	0.2	0.2
	Saturating choke	0.2	0.2
		<u>1.3</u>	<u>1.3</u>
6.	<u>CONTROLS</u>	0.15	0.15
7.	<u>COOLING SYSTEM</u>	0.1	0.1
8.	<u>BUILDINGS</u>		
	² Main building works	1.4	1.30
	Engineering and services	0.4	0.52
	Fees	0.1	0.14
		<u>1.9</u>	<u>1.96</u>
	³ Ancillary services building	0	0.07
		<u>6.9</u>	<u>7.03</u>
	TOTAL		

NOTES

1. The sum of £1,500,000 includes the contract price of £1,329,400 which is based upon a nominal price of £70 per ton for magnet steel. The final price of the steel cannot be negotiated until the steel supplier has produced the first 500 tons. A sum of £100,000 is also included to cover possible modifications to the yoke.
2. Detailed in N.I.(G.P.)(57) 3.
3. Detailed in N.I.(G.P.)(57) 6.
4. No allowance is made for cost variations or contingencies.

APPENDIX II

7 GeV PROTON SYNCHROTRON

REPORTED COMMITMENTS AND EXPENDITURE UP TO 12.10.57.

No.	Item	Contract Number	£ Value	Firm	£ Expenditure	Remarks
1	<u>MAGNET</u> Magnet Yoke Power Supply for Magnet Block Testing	2A.12158 A.8986	1,329,400 10,629	Joseph Sankey Ltd. English Electric Co. Ltd.	NIL NIL	Contract Placed on 26/9/57 Contract Placed on 18/9/57
2	<u>INJECTOR</u>					No Commitments
3	<u>R.F. SYSTEM</u>					No Commitments
4	<u>VACUUM SYSTEM</u>					No Commitments
5	<u>POWER SUPPLY</u>					No Commitments
6	<u>CONTROLS</u>					No Commitments
7	<u>COOLING SYSTEM</u>					No Commitments
8	<u>BUILDINGS</u>					No Commitments
	<u>A) Main Building Works</u>					
	Opening up Contract	3075	82,638	W. F. Oliver & Sons Ltd.	23,545	Contract Placed on 2/6/57
	Structural Steel for Preparation Area	3017/1	5,130	Marshall Hayne & Co.	NIL	
	Structural Steel for Main Building	3017/2	37,756	Rubery Owen & Co.	NIL	Contract Placed on 24/7/57

No.	Item	Contract Number	£ Value	Firm	£ Expenditure	Remarks
<u>A) Main Building Works Contd.</u>						
	Structural Steel for Shield Bridge Pier	3017/3	4,465	J. Booth & Son Ltd.	NIL	
	Reinforcing Rods	(E.4871 B.8231	3,022 7,406	Whitehead Iron & Steel Co.	3,022 4,148	
	Exploratory Boring	J 3022	2,513	The Cementation Co.	2,513	
	Trial Bore Holes	NW 16/N	1,376	W. E. Oliver & Sons Ltd.	1,150	
	Miscellaneous		180		180	
<u>B) Engineering & Services</u>						
	Electrical Cables	A 898	3,507	Swelling Cable Co.	NIL	
	E.H.T. Switchgear	J 3020	7,565	Reynolds Ltd.	NIL	
	Transformers	A 8967	2,934	Yorkshire Electric Co.	NIL	
	20 Ton Crane	J 3076	8,384	Wharfedale Crane Co.	NIL	
	Miscellaneous		1,271		NIL	
<u>C) Fees</u>						
	Consultants	J 3033	400,000	Moss & McWilliam	6,000	Contract placed on 27/4/57
	Quantity Surveying	J 3074	40,000	Fuller & Partners	NIL	Contract placed on 23/4/57

APPENDIX III

7 Rev PROTON SYNCHROTRON

KNOWN AND ANTICIPATED CONTRACT ACTION DURING PERIOD 12.10.57.-4.2.58.

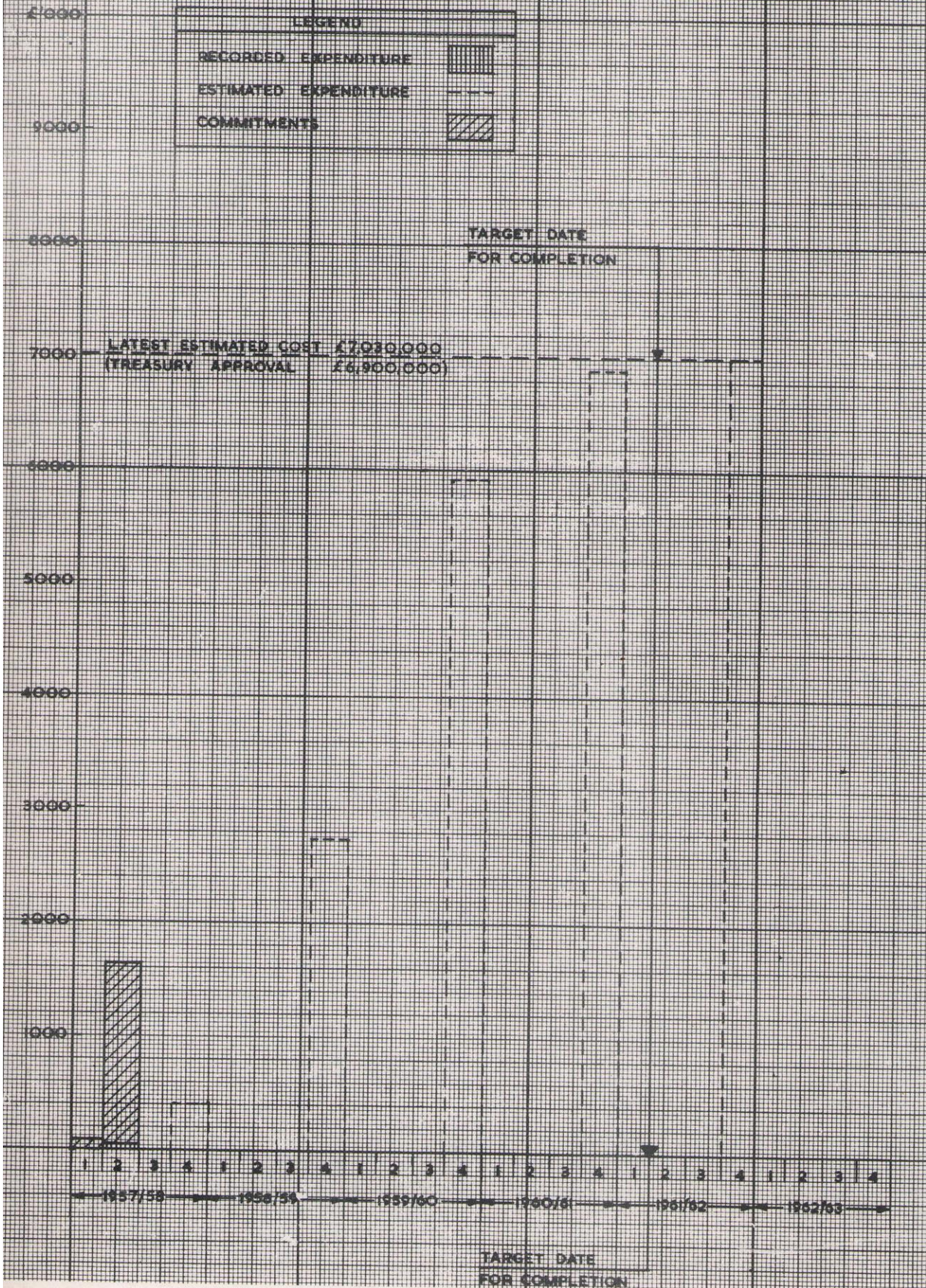
No.	Item	Contract Number	£ Value	Firms likely to be considered	Remarks	Action sought from G.P.C.
1	<u>MAGNET</u>					
2	<u>IMPEPDER</u> Electrostatic Generator	JB 12213	15,050	S.A.M.E.S., France	Contract placed on 15/10/57 after competitive tender	No action
3	<u>R.F. SYSTEM</u> Ferrite		35,000	Firms likely to be considered for the ferrite:- Plessey's, Great Britain. I.T.T., France. Philips, Holland. Steatit-Magnesia, Germany.	Contract action may be taken towards end of this quarter. Philips and I.T.T. were approached through their associates in Great Britain	Paper on ferrite will be submitted later. The time scale may require a special meeting of the G.P.C. or action by the Chairman.
4	<u>VACUUM SYSTEM</u>					
5	<u>POWER SUPPLY</u> Motor Alternator Ignitrons etc.		1,100,000	Brush Elect. Eng. Co. Ltd. C. A. Parsons Ltd. British Thompson-Houston Ltd. English Electric Co. Ltd. Brown-Boveri Co. General Electric Co. Ltd.	Tenders will be obtained during this quarter. Contracts with a foreign firm may be involved. A paper will be submitted to next regular meeting of the G.P.C.	None during this quarter

No.	Item	Contract Number	£ Value	Firms likely to be considered	Remarks	Action sought from G.P.C.
6	<u>CONTROLS</u>					
7	<u>COOLING SYSTEM</u>					
8	<u>BUILDINGS</u>					
	A) <u>Main Building Work</u>					
	Main Civil Contract		1,018,715	Messrs. W. E. Chivers & Sons, Ltd., after competitive tender.		Authority to place contract (Paper M.I.(G.P.)(57) 3).
	B) <u>Engineering & Services</u>					
	Special Motion Cranes		35,000	Wharton Crane Co.	Single tender.	Authority to place contract (Paper M.I.(G.P.)(57) 5).
	Miscellaneous Cranes		45,000	6 crane manufacturers	Competitive tender	Authority to place contract (Paper M.I.(G.P.)(57) 7).
	Ventilation and Air Conditioning.		55,000	Not yet decided	Competitive tender	Authority to place contract (Paper M.I.(G.P.)(57) 8).

UKAEA (R.G.)

TOTAL EXPENDITURE

7 GEV PROTON SYNCHROTRON PROJECT



UKAEA (R.C.)

BUILDING EXPENDITURE

7 GEV PROTON
SYNCHROTRON PROJECT

LEGEND

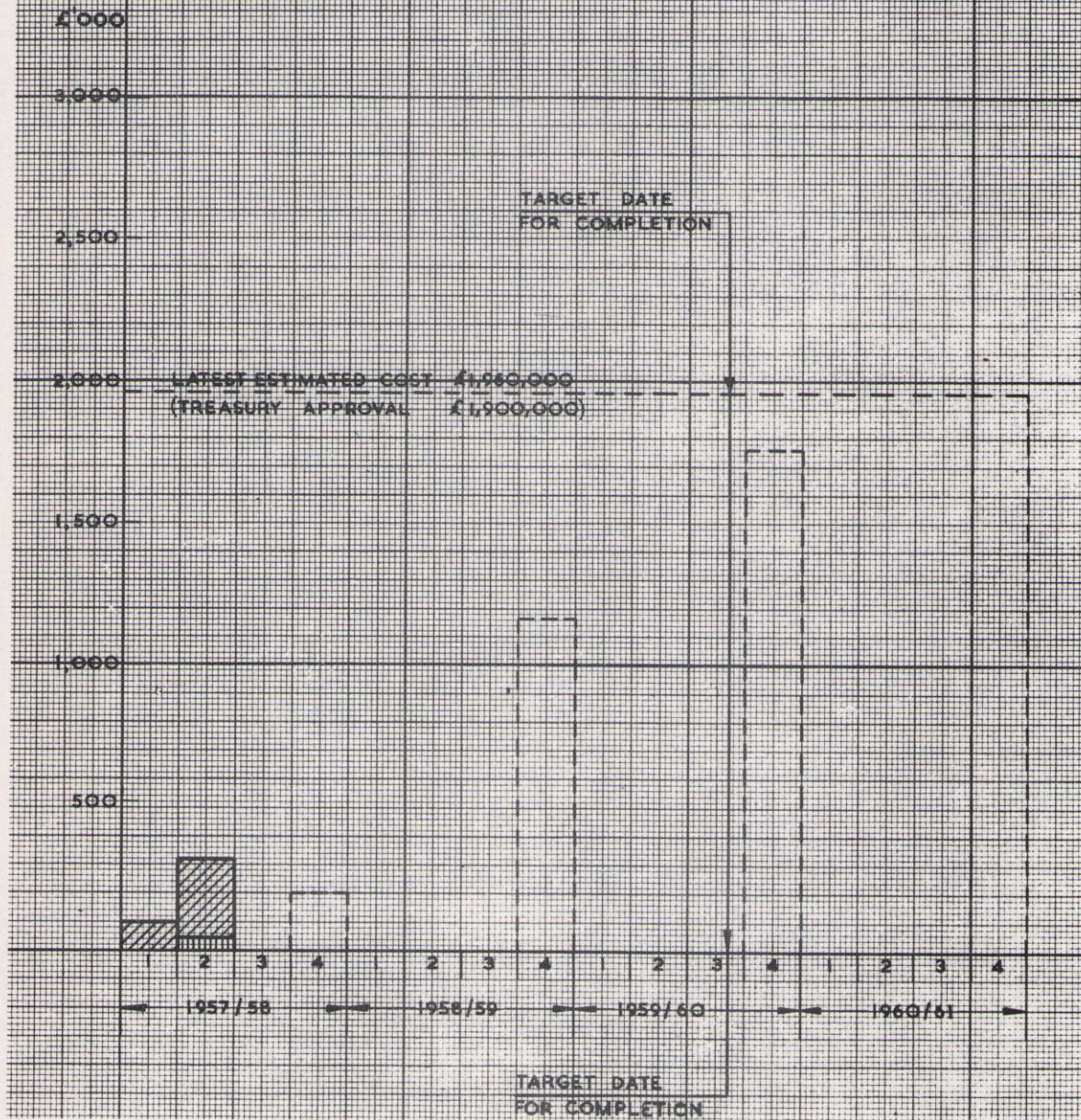
RECORDED EXPENDITURE



ESTIMATED EXPENDITURE



COMMITMENTS



U.K.A.E.A. (R.G.)

7 GEV PROTON SYNCHROTRON PROJECT

● ANT EXPENDITURE

LEGEND	
RECORDED EXPENDITURE	
ESTIMATED EXPENDITURE	
COMMITMENTS	

