

NIMROD PROJECT

Quarterly Statement No.23

1. This report shows in Appendix I the Nimrod Capital Estimate to 30th June, 1963, compared with the original estimate and the present Treasury Approval.
2. The total estimate is increased to £11.229M including C.V.C. and £0.410M contingency. The increase of £24,000 is shown in paragraph 4.
3. The total Plant Estimate remains at £8.06M including C.V.C.
4. The total Building Estimate is increased by £24,000 to £3.169M. Building Works increase by £22,000; Fees increase by £12,000; Contingency decrease by £10,000.
5. Appendix III shows the expenditure and commitments to 30th June, 1963.
6. Appendix IV shows the outstanding, known and anticipated contract action up to 30th September, 1963.
7. Appendix V shows the rate of expenditure and commitment in graphic form.

A. G. ASHBURN

CENTRAL ENGINEERING GROUP

NIMROD PROJECT

Revised Cost Estimates - 30th June, 1963

Item	£ million		
	Original Estimate	Breakdown of Present Treasury Approval	Revised Cost Estimates at 30.6.63
1. <u>Magnet</u>	2.60	3.085	3.085
2. <u>Injector</u>	0.30	0.586	.586
3. <u>R.F. Equipment</u>	0.15	0.196	.196
4. <u>Vacuum Equipment</u>	0.40	2.139	2.139
5. <u>Power Supply</u>	1.30	1.483	1.483
6. <u>Controls</u>	0.15	0.186	.186
<u>Cooling Systems</u>	0.10	-	-
<u>Contingency on Plant Items</u>	-	0.360	.360
<u>C.V.C.</u>	-	0.025	.025
	5.00	8.060	8.060
7. <u>Buildings</u>			
Building Works	1.40	} 2.649	2.659
M & E Services	0.40		
Fees	0.10	0.353	0.365
Furniture & Fittings	-	0.030	0.030
<u>Contingency on Building Items</u>	-	0.060	0.050
<u>C.V.C.</u>	-	0.048	0.065
	1.90	3.140	3.169
TOTAL	6.90	11.20	11.229

NIMROD PROJECT

APPENDIX III

Recorded Commitments up to 30th June, 1963

Item	Commitment £	Expenditure £	Remarks
<u>PLANT</u>			
<u>Magnet</u>			
Sectors	1,639,972	1,621,740	
Coils	676,812	601,796	
Pole Pieces	369,700	376,563	
Pole Face Windings	92,566	95,698	
Installation	195,386	166,036	
Stores Withdrawals	4,649		
	2,979,135	2,861,833	
<u>Injector</u>			
D.C. Gun Supplies	37,566	31,390	
D.C. Gun	20,111	21,144	
Low Energy Drift Space	15,589	11,891	
Linear Accelerator	198,245	188,990	
R.F. Drive Power	44,669	46,131	
High Energy Drift Space	46,723	43,595	
Inflector	65,633	56,540	
Local Control System	10,450	10,994	
Miscellaneous Equipment & Installation	102,806	81,105	
Stores Withdrawals	6,862		
	548,654	491,780	
<u>R.F. System</u>			
Accelerator Unit	76,713	77,995	
Bias Supply	6,826	5,924	
Drive Chain	38,691	16,978	
Primary Frequency Generator	2,338	2,896	
Beam Control Unit	13,058	9,955	
Local Controls	—	—	
Installation	17,745	15,057	
Stores Withdrawals	6,064		
	161,435	128,805	
<u>Vacuum System</u>			
Curved Section	1,533,977	1,477,215	
Straight Sections	25,582	29,803	
Pumping Units	246,827	218,773	
Connections	93,144	67,696	
Ancillaries	11,332	14,465	
Installation	104,336	76,031	
Stores Withdrawals	5,294		
	2,020,492	1,883,983	

APPENDIX III

Recorded Commitment & Expenditure continued from previous page

Item	Commitment £	Expenditure £	Remarks
<u>Power Supplies</u>			
Rotating Machinery	634,829	544,601	
Converter Equipment	649,645	585,338	
Miscellaneous	31,872	23,945	
Ripple Filter Equipment	66,735	65,418	
Installation	29,801	18,362	
Stores Withdrawals	1,965		
	1,414,847	1,237,664	
<u>Control System</u>			
Control Equipment	33,280	26,927	
Control Cabling	11,236	1,049	
Remote Control Panels	27,730	28,059	
Components for advance ordering	14,565	14,451	
Installation	43,990	24,657	
Stores Withdrawals	5,415		
	135,173	95,143	
PLANT TOTAL	*7,259,736	6,699,208	
<u>BUILDINGS</u>			
Building Works	1,887,839	1,882,701	
M & E Services	822,950	803,116	
Fees	353,000	344,118	
Furniture & Fittings	11,736	11,736	
BUILDINGS TOTAL	*3,075,525	3,041,671	

*These figures include the commitment against the plant and building contingencies

NOTES:- Expenditure figure for Plant include Stores withdrawals which amounted to £30,593 at 30.6.63.

Stores withdrawal commitments are shown separately, but expenditure on stores withdrawals is included in each of the sub-headings.

New commitments entered into since previous Quarterly Statement
i.e. 31.3.63 to 30.6.63 value at over £500

Item	Value £	Firm	Remarks
<u>MAGNET</u>			
Requisition raised to cover outstanding items on Main Magnet Coils	8660	A.E.I. Limited	PS 1269 Amend. No.37
<u>VACUUM</u>			
Install 1" Demineralised water supply to all Octants for beam trimmers and target mechanisms	1000	Z. D. Berry & Son	PS 1808 Amend. No.15
Increase on Valve Body Assemblies and scrapped and salvaged valve bodies owing to faulty material	2080	Vacuum Research Ltd.	PS 1434 Amend. No. 5
12' High Vacuum Pumping Unit	30252	Edwards High Vacuum	PS 2280
Modifications to Pump Headers etc.	792	Hall Engineer- ing Ltd.	PS 1632 Amend. No. 7
<u>CONTROL SYSTEM</u>			
Hydrogen Detection Alarm System	2180	J. & S. Sieger Ltd.	PS 2284

NOTE: The above commitments are included in the commitment shown on the previous pages.

APPENDIX IV

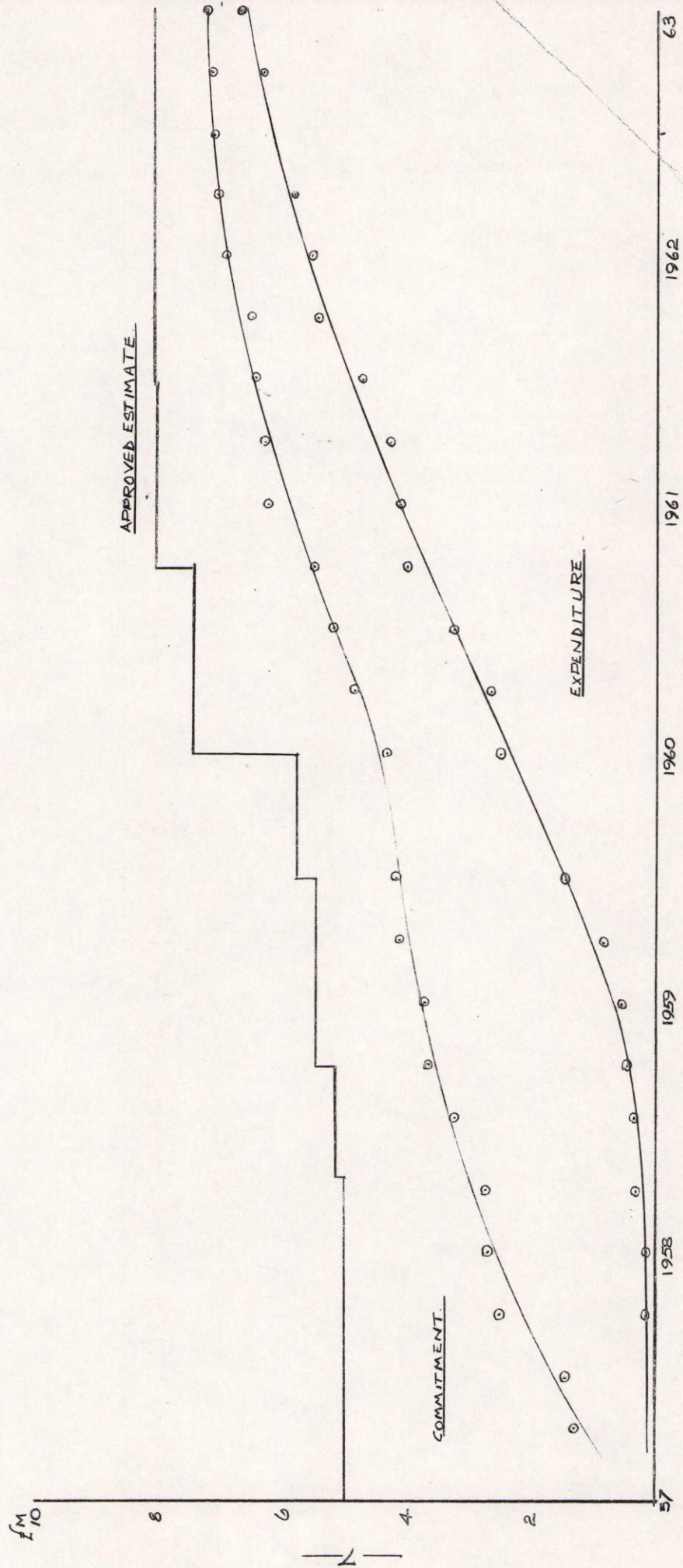
NIMROD PROJECT

Outstanding, Known and Anticipated Contract Action £5,000 and above from 1.7.63 to 30.9.63

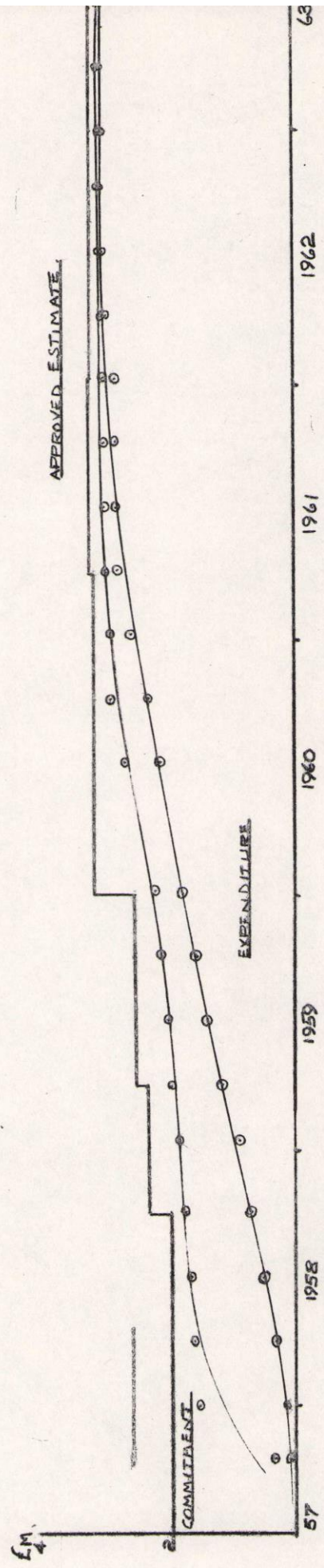
Item	Estimated Value	Firm	Remarks
Finalisation of Pole Piece Contract	£ 20,000	English Electric	To be placed as an amendment to CON/HAR/2C/40063

APPENDIX Y.

NIMROD PLANT



NIMROD BUILDINGS



APPENDIX V

NIMROD PLANT & BUILDINGS.

