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OF HER BRITANNIC MAJESTY'S GOVERNMENT E (80) 65 COPY NO 55 7 July 1980 CABINET MINISTERIAL COMMITTEE ON ECONOMIC STRATEGY. INVESTMENT AND FINANCING REVIEW: TELECOMMUNICATIONS Memorandum by the Secretary of State for Industry 1 Post Office Telecommunications have submitted additional bids for 1981/32, 1982/83 and 1983/84, totalling nearly £500 million at 1980 Survey prices. This memorandum considers whether the investment proposals underlying these bids should be approved and if so how they should be financed and what implications that may have for the business's financial target. 74 BACKGROUND 2 The last White Paper (Cmnd 7841) provided for increases in the telecommunications investment programme totalling (at 1980 Survey prices) some £175 million in aggregate in 1980/81, 1981/82 and 1982/83 compared with the preceding year's White Paper (Cmnd 7439). These increases took into account in particular the acceleration of the installation programme for the semi-electronic TXE4(and 78 later TXE4A) exchanges designed to bring about improvements in the quality of service and lower manning levels and maintenance requirements; this involved a decision to phase out Strowger by 1992 instead of 1995 as previously intended. 80 3 The present additional bids arise partly from additional capital requirements 1981/82 1982/83 82 + 170 and partly from a reduction in internal resources (due largely to a reassessment of depreciation) 1983/34 1981/82 - 110 - 65. - 23 leading to total bids for extra finance of + 280 + 115 ./4 ... 244

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4 The additional capital requirements arise across the field the additional capital requirements are across the field the 4 The additional capital the field reflect higher forecast levels of expenditure on System X reflect higher forecast levels of expenditure on System X products and services (such as Radiopaging and Teletex) on products and services are modernisation of existing products and services. products and services are services and services and services and services and services and services are services and services are services and servi expansion and modernist expansion and service and on a variety of other items such as accommodation, extra and on a variety and special efforts to reduce the water and on a variety of other reduce the waiting

5 The Department of Industry and the Treasury have fairly detainformation about the composition of Telecommunications' large investment programme (over £1½ billion a year) but we are not investment programme (over £1½ billion a year) but we are not give the economic justification of each element in the kind of details the gome other industries like steel. However, the economic justified industries like steel. However, the provided by some other industries like steel. However, the Po provided by some construction of the loss of investigated methods of investigation of the loss of the office itself has do projects are evaluated against a test discount to appraisal and projects are evaluated against a test discount to of 8%, designed to ensure that new investment as a whole attain the Government's required rate of return of 5% in real terms

6 In justifying the programme, the Chairman explains that a fi class telecommunications service is crucial to national promet Technological advances continue to accelerate and possible new services are multiplying fast. An energetic strategy by the Po Office in the development of new services is therefore essentia maintaining the UK's position.

7 Rapid expansion of the network continues to be essential to generate the cash flow necessary to facilitate the transmission the volume and diversity of voice, image and data information. Post Office plan is 87 telephones per 100 residential household by March 1985. The new lines produce a rapid return even where growth is concentrated, and it now has to be, mainly on the low socio-economic groups. The Post Office aim to reduce the waiting list for new connections from its unacceptably high current la of 250,000 to 40,000 by 1983/4 and markedly to improve service. Automatic call failures in Britain, although roughly the same at the control of the control EEC countries, are currently worse than in the USA by a factor 2, (nearly 4 in London) and worse still compared with Canadas Sweden. This is serious in itself. But even this inadequate performance is only achieved by consuming an undue amount of me keeping old exchanges going.

8 Against this background the Post Office has been extremely reluctant to contemplate any exercise to illustrate cuts designation produce a reduction in the external financing requirement in of the years 1981/82 to 1983/4 equivalent to 10% of telegonial investment - i.e. \$450m. investment - i.e £150m. The Post Office have, however, including a blanket 10% how a blanket 10% cut could impact on planned programmes.

9 For example, the bulk of Post Office investment is devoted the modernisation of the not used of new exchange. the modernisation of the network and the ordering of new equipment. Substantial increases in System X expenditure and planned. These plans have a substantial increases in System X expenditure and planned. planned. These plans have been extensively discussed and co-ordinated with the co-ordinated with the industry. They are the essential pasts the prospects for a modern reduced to the prospects for a modern reduced to the prospects for a modern reduced to the prospect to the prospect of the prospect to the prospects for a modern network in this country and for revival of telecommunications. revival of telecommunications exports based on System 1. estimated effect of the cut is:

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PO Ordering of Electronic Exchange Equipment

		1,000	Survey Price	S
	80/31	81/82	82/83	83/84
Planned Ster Cut	250 140	265 205	300 250	375 325

PO Exchange Equipment Cash Flow to UK Telecoms Industry £m 1980 Survey Prices

	81/82	82/83	83/84	. 84/85
As Planned	465	366	407	446
After Cut	411	302	343	371

10 The cut would delay the development of a modern telecommuni-10 The total network capability in this country significantly, and the manufacturing industry would incur serious loss of employment. It is estimated that the direct and indirect lost job opportunities in the manufacturing industry due to such a cut would be:-

81/82	82/83	83/84	84/85
6150	7400	7600	8750

11 The Post Office plans to improve service and productivity in the immediate future rest largely on the rapid replacement of Strowger exchanges with the British TXF4 and 4A systems. They are available now in quantity and TXE4 is already giving very good technical results in service. The plans are to replace Strowger by TXE4 or 4A in a total of 450 exchanges serving over 5 million customers by March 1985. The cut would reduce this to 350 exchanges serving less than 4 million customers. Many of the oldest and most defective exchanges serve business communities in the centres of cities and the cut would unavoidably bear most on them. For example 25 exchanges in London would be affected, just where service is worst.

12 The quality of service implications of any change in the Strowger replacement programme are quite unambigious as the following results of computer sampling of calls in Birmingham in March 1980 showed

	% calls failing due to defects	% calls with bad transmission
Strowger exchanges TXF4 exchange	1.53 0.42	1.06 0.00
Milani		207 and 0.15

for electronic exchange fault reports show a rate of 0.7

Another effect of a 10% blanket cut would be a decrease in the mined Size planned size of the telephone system of half a million by March 1985, and a high works. and a high waiting list throughout the period.

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14 Post Office plans provide for an expenditure over the period of £250m on international communication. This would have to be to by at least £30m and would have an adverse effect on export by at least £30m and on the special position which London enjoys communications and on the special position which London enjoys an attractive location for the European headquarters of multinational companies.

15 There are possibilities for modyfing telecommunications investment requirements distinct from a blanket 10% cut. Overall the Post Office are setting themselves the target of having sometime the Post Office are setting themselves the target of having sometime to the post of the market for new services and attachments to the network which is to be exposed to competition. Obviously, the network which is to be exposed to competition. Obviously, the network which is to be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment in this area could be cut by an arbitrary amount - 20% investment would not necessary 1983/84. However, a saving in such investment would not necessary 1983/84. However, a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office external financing requirements, result in a saving in Post Office ex

16 Another possibility in the same area of new products and services is to <u>privatise</u> some of the "downstream" activities such as Prestel or Radiopaging, or even the supply of customer apparatus as Prestel or Radiopaging, or even the supply of customer apparatus as Prestel or Radiopaging, or even the supply of customer apparatus as Prestel or Radiopaging, or even the supply of customer apparatus as Prestel or Radiopaging, or even the supply of customer apparatus as Prestel or Radiopaging, or even the supply of customer apparatus with the net effect overally be to reduce the Post Office borrowing overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be to reduce Post Office profit (and overall effect might well be profit to the profit of the Post Office Po

17 The Post Office has a pivotal role to play in the development and promotion of the nation's information technology hardware and promotion of the nation's information technology hardware and software. The total investment programme of the Post Office is smaller than that of equivalent telecommunications authorities smaller than that of equivalent telecommunications authorities in similar countries abroad and is lower in real terms than the average Post Office telecommunications investment in the first play average Post Office telecommunications investment in the first play average Post Office are the Department have concluded from the office of the possibilities that the Post Office's fixed asset investment plans:

1981/2	1982/3	1983/4
1,01,-		4508
1545	1500	1578

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should be approved in respect of the first 2 years, subject to usual limit on commitment of 85% in the second year 1983/4 by believe there is a case for reducing the figure for the figure for thick that the Post Office 1000m to take account of the possibility that the Post of high market share assumption in the non-monopoly area may be tified and to enable the scope for privatisation of downstread activities to be more exhaustively examined.

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FINANCIAL TARGET

18 It remains to consider whether these increased investment bids should be financed by additional borrowing or from internal resources. The Post Office's bids assume a financial target (i.e a real return on assets) of 62% in each of the three years, but the Post Office consider 62% to be higher than can be justified either on normal commercial criteria or by the Government's required rate of return (RRR) on new investment (5%).

19 The last Government reduced the financial target from 6% to 5% in April 1979. Since then the asset base has been revalued to take account of revised estimates of the rate of technological innovation and other factors. This has reduced the cash flow resulting from the 5% financial target by between £150m and £200m a year, equivalent to about a 1% reduction in the financial target. Would need to be about 6%. This would still be as consistent with approach is independent of the particular accounting treatment adopted. However there are indications that a figure derived directly from the RRR might be slightly lower.

20 To grant the Post Office request for a  $5\frac{1}{2}\%$  target would increase their bids for extra finance in the three years in question by further amounts of

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The Post Office recognise that increases of this size could not be accommodated in the Government's PSBR programme at this time and therefore accept reluctantly that a 6½% target will be necessary for the time being. They would wish it to be understood, however, that the target should revert to a level more clearly consistent with the RRR as soon as the overall financial constraints permit.

21 The external financing limit for 1980/81 assumed a 5.2% return this year and Cmnd 7841 stated that, while the precise targets for each year had yet to be decided following the downward revaluation of the asset base, the figures in the White Paper assumed that the business would make a real return of about 6% in 1980/81 and 6.5% from 1981/2 onwards. The decision to set the target for 1981/2 and 1982/3 at 6½% is likely to be pre-empted by the corrective action needed to maintain the Post Office's External Financing Limit for 1980/81.

22 Last October the Secretary of State for Trade argued that the target should not be increased above 6% as this would represent blatant exploitation of the Post Office's monopoly and a departure from the fundamental principle that prices should be related to long run marginal cost. It is true that a target derived from long run marginal cost pricing (which would thus be directly consistent with the RRR) would almost certainly be below even 6%. However, the price-elasticity of demand for telecommunications services has up to date been sufficiently low for relative over-charging not to cause a serious misallocation of resources, provided the Post Office pursue their proposals for correcting the relationship between different charges (rental and call; trunk versus local).

23 On balance therefore I conclude that given the financial constraint an increase in the target to  $6\frac{1}{2}\%$  is preferable to a cut in the investment programme for 1981/82 and 1982/3. But I agree

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