is not known how long JET could work with a radioactive plasma, until its materials become too active to handle efficiently.

The Princeton tokamak fusion test reactor (TFTR), which is of similar scale to JET, is already being installed in its buildings. According to JET officials, the TFTR will be running some six months before JET itself.

Robert Walgate

Telecommunications

Monopoly in doubt

Sir Keith Joseph, allegedly the British Cabinet's hard man on monetarism and other issues of grand policy, last week published a soft, even muddled, bill for the reorganization of the nationalized British telecommunications industry. The bill, which the government hopes will be law before the end of this session of parliament, would split the nationalized British Post Office into two parts, one (called the Post Office) concerned with mail and the other (British Telecommunications) with the development and operation of the telecommunications network.

The bill confirms British Telecommunications in its monopoly of the telecommunications services in Britain including — a minor surprise — the right to maintain all equipment connected to the network. But the bill provides for "approved" equipment to be attached to the network, for private organizations to use the network for selling what are called "valueadded services" and even for letting the Secretary of State license private telecommunications networks if he thinks fit.

Although these developments were foreshadowed in Sir Keith Joseph's policy statement last July, the extent to which the bill leaves final decisions about the shading of the monopoly in the hands of the Department of Industry is surprising, Instead of attempting to define what technical criteria should be satisfied by privately supplied terminal equipment, for example, the bill gives the Secretary of State power to arrange for an approval procedure. Questions of when outsiders would be allowed to lease the telecommunications network (and at what cost) are being looked into by Professor Michael Beesley, but again it will be the Secretary of State who will decide what should be permitted.

British Telecommunications (which will not formally exist until the bill is law) is plainly unhappy with the extent to which the bill would give the Department of Industry a crucial and perhaps arbitrary say in its future business. Sir Keith's dilemma seems to be that, having shrunk from going the whole hog and defining British Telecommunications as a common carrier, he has had to fall back on ministerial direction as a way of nudging the corporation in his preferred direction. The bill may thus be a recipe for constant wrangling between the communications network and the civil service (which, paradoxically, has been much involved with the affairs of all nationalized industries since the election of May 1979).

The new regime at British Telecommunications also promises continued uncertainty about the financing of the telecommunications network. The new corporation will be encouraged by the bill to set up new subsidiaries to compete with private manufacturers of terminal equipment, but will be required to finance these developments within the tight restrictions at present applied — and which, in effect, imply that most of the capital cost of renewing the British telecommunications network is paid for by current users of the network.

Last week, Sir Keith Joseph offered no escape from this corset except to the extent that British Telecommunications may be able to set up joint ventures with private industry which are financed privately and not under the corporation's financial control. Delphically, he declined last week to say what sorts of ventures he was thinking of, thus lending credence to the view at British Telecommunications that the proposed device will offer very little escape from the present squeeze.

Despite reports to the contrary, there appears to be no threat of interference with the programme of telecommunications research and development, based at the laboratories at Martlesham Heath in Suffolk. The government intends this bill to be law within a year. Its plan to sell off Cable and Wireless is the most likely snag.

Malaysian education

Pressures ease

Kuala Lumpur

Faced with internal racial pressures and a growing concern about academic quality, educational authorities in Malaya seem to be easing up slightly on the harshness of previous measures to reform the country's education system.

Two aspects of this policy have come under particular criticism. The first, known as restructuring, is the preference that has been given to Malay students and staff over those from Malaya's other two major ethnic groups, the Chinese and the Indians. The second, nationalization, has been the requirement that all school and university courses should eventually be taught in Malay rather than in English, both initially used as official languages after the country's independence from colonial rule in 1957.

Both goals are part of a new economic policy introduced by the Malay government in 1971. This followed widespread racial riots sparked off by Malay fears that their post-colonial political dominance was about to be challenged by the economically more powerful Chinese, who had voted strongly for the main opposition party in the 1969 elections.

One result of the subsequent "reforms" is that, from 1985, all university courses will have to be taught in Malay, the culmination of a process which started in 1976 with the requirement that Malay be the language taught in primary schools, and which has been climbing the educational ladder one year at a time ever since.

The policy has been effective in increasing an awareness and use of Malay, now the official language in which all communications with civil servants, for example, must be carried out. But many university teachers now argue that an excessive concentration on Malay is already placing students at a disadvantage, particularly in science subjects where most textbooks and almost all scientific journals are written in English, and many scientific concepts have no Malay counterpart.

Partly in response to this criticism, the government is now boosting the teaching of English as a second language in Malaysian schools, arguing, for example, that English is necessary for graduates entering technical employment or intending to pursue postgraduate studies aboard.

A recent decline in the standard of English teaching in secondary schools was "alarming", said one education official last week, arguing that if it continued unchecked it would be a serious setback to the government's plans to increase the number of scientists and technologists on whom the country depended for its future.

A concern for educational standards has also prompted the government to relax slightly the constraints placed on foreign university staff — exceptions are now frequently made to the ruling that a non-Malaysian can only be given two consecutive three-year teaching appointments — as well as the strong preference given to Malays in awarding university places over Chinese and Indian students with equal academic achievement.

The latter relaxation has proved to be controversial, particularly as many Malays see positive discrimination in their favour as necessary to eliminate the dominance of the Chinese in many professional fields, including scientific research.

For example, opening a conference on the role of universities in the developing countries last week, the vice-chancellor of the University Kebangsan Malaysia, Professor Datuk Awang Had Salleh, said that solutions based on groups rather than individuals remained an appropriate strategy for university entrance.

Erratum

The title of the article on the Indian environment, which appeared on page 207 of the 20 November issue of *Nature* should have been "Indian environment: Gandhi converted".