said that he will take the job only if the

licensing proceeds on schedule. The West Berlin Senate was planning to discuss the

Depending on Riesenhuber's response,

the row may have dramatic consequences

for other research reactors in West

Germany at Jülich, Garching and else-

where. The problem may resurface in an

especially acute way in Garching, near

Munich, where a project to build a new

research reactor on the Technical Univer-

sity campus has been stalled for several

years, in part because the Bavarian

government feared a local backlash from

ANNOUNCING approval from the Science

and Engineering Research Council for a

£17 million British involvement in two space projects, Professor Len Culhane

from the Mullard Space Science Labora-

tory added that the climate for British

space science was "substantially improved"

after financial cuts in the 1980s. But this

optimism, it seems, reflects a better state of

mind, not increased funding. As Professor

John Harries, head of space science at the

Rutherford Appleton Laboratory, com-

mented: "It's nice when someone stops

develop equipment for X-ray and ultra-

violet astronomy missions. The X-ray

multi-mirror mission, a 'cornerstone' of the

European Space Agency's Horizon 2000

space programme, is due for launch in

United States and Canada to look at signals

in the far and extreme ultraviolet, will fly

Lyman-FUSE, a joint project with the

Peter Aldhous

The new money is for British teams to

Steven Dickman

opponents of nuclear energy.

Optimism, but little

UK SPACE SCIENCE -

money

hitting you".

1998.

in 1997.

London

issue on 8 May.

NUCLEAR RESEARCH Waste issue threatens reactor

Munich

EVEN a small nuclear reactor can stir up a large controversy in West Germany. This truism, which became even truer after Chernobyl, is being demonstrated once again in West Berlin, as a political dispute over waste disposal threatens licensing of the research reactor at the Hahn-Meitner Institute (HMI), the city's only Large Research Establishment.

An article in the magazine Spiegel on 23 April declared that spent fuel rods from six West German research reactors, including the one at HMI, consist of 93 per cent uranium-235 - "pure bomb material". Spiegel says that uranium from the fuel rods, which have in the past been returned to the United States after use, may wind up in US nuclear bombs.

HMI spokesman Thomas Robertson rejects SPD's arguments as "nonsense" for two reasons. He says that buying US fuel rods for the reactor and returning them when they are spent removes uranium-235 from the nuclear fuel cycle, rather than adding it, and that plutonium in the rods would be too strongly contaminated to serve as raw material for a bomb. Furthermore, he adds, the United States already has so much weapons material that it would be irrelevant whether these few fuel rods added to it.

Nevertheless, West Berlin Senator Barbara Riedmüller-Seel (Social Democrat, SPD) sent a letter to West German Research Minister Heinz Riesenhuber (Christian Democrat) asking the Research Ministry, as 90 per cent shareholder in HMI, to promise that the spent fuel rods were not being recycled into bombs.

Robertson doubts that Riesenhuber could give the assurance that SPD has asked for.

The letter from Riedmüller-Seel seems to represent a turnabout in the West Berlin SPD's grudging acceptance of the necessity of licensing the reactor. The HMI reactor was shut down three years ago for upgrading to a more powerful neutron source, but in the meantime there have been such grave problems with waste transport and disposal in the United States that HMI signed a new contract for waste disposal with the Dounreay facility in Britain.

Robertson admits that fuel from research reactors is not kept separate from bomb material at Dounreay, but he asserts that the Environment Ministry in Bonn, which is also responsible for reactor safety, has approved of the Dounreay waste disposal plan.

Squabbles over the licensing procedure have several times brought the fragile coalition between the SPD and the antiof the Green Party, to the brink of collapse (see Nature 341, 479; 1989). But the SPD may be trying to have its cake and eat it too - trying to please its anti-nuclear supporters while at the same time declaring its support for the reactor. A spokeswoman for Riedmüller-Seel, Sigrid Kneist, says that the letter to Riesenhuber was not an attempt to delay the licensing, which SPD has promised by the end of May.

Kneist says that the West Berlin government realizes how high the stakes are: Siegfried Grossmann, the nominee for the vacant directorship of HMI, has SOVIET SCIENCE -

US Academy describes anti-semitism

Washington

AMID reports of rising anti-semitism in the Soviet Union, the US National Academy of Sciences recently urged the Soviet authorities to condemn anti-semitic attacks and persecution. The two-paragraph resolution, adopted at the 127th annual meeting of the body, notes cases of "harassment or worse", and asks responsible authorities to "use all available means to prevent their further occurrence". Many Jewish scientists in the Soviet Union are concerned about the threat of persecution and even pogroms, according to former Soviet scientist Valery Soyfer, a molecular biologist at Ohio State University who has been monitoring reports of anti-semitism in the Soviet Union. He says one recent lecturer at a Soviet science centre, discussing the Jewish influence in the country, told his audience that machine nuts in the Soviet Union have six sides, rather than four, because of "Zionist propaganda". "Even inside academic institutions there are such battles", Soyfer says.

G. Christopher Anderson

NUCLEAR INDUSTRY -

New order for BNFL

London

BRITISH Nuclear Fuels plc (BNFL), shaken recently by the Gardner report's association between childhood leukaemia and paternal radiation exposure at the Sellafield nuclear reprocessing plant, has welcomed a £225 million contract to reprocess 450 tonnes of reactor fuel from Lingen, West Germany.

The contract is the first to be signed for reprocessing in the twenty-first century at BNFL's Thermal Oxide Reprocessing Plant (due to open at Sellafield some time in 1992).

With the future development of Britain's nuclear programme in abeyance until nuclear Alternative List, the local branch 1994, overseas contracts are set to become a more important part of BNFL's business. Also at the end of last month, the

Health and Safety Executive's Nuclear Installations Inspectorate approved plans for BNFL to operate its nuclear reactors at Chapelcross in Scotland and Calder Hall in Cumbria until 40 years old, subject to an estimated £20 million worth of safety improvements.

The reactors were designed with a 30 year lifespan, which they have now reached. Although reactors at both sites supply plutonium for Britain's nuclear weapons programme, BNFL say that the decision to continue operation is due to the reactors' commercial value as electricity generators. **Peter Aldhous**