## Polaris radiation miscalculated 2715160

Paul Brown and David Fairhall

posed to dangerous neutron radiation because of a miscalculation by the Ministry of Defence. ORKERS who service Britain's nuclear de-terrent have been ex-

were underestimated has led to Polaris missile warheads may fears that the plutonium inside nave been overheating, thus potiveness in a war. tentially lowering their effec-The fact that radiation levels

Royal Navy armament depot at Coulport on the Firth of Clyde. being exposed to neutron bombardment was discovered during a radiation survey at the The problem of workers

were being bombarded with ised because the dose meters more neutrons than was realaccurately. they had been issued with since It was found that workers did not register

They only registered the less dangerous gamma radiation. The extent of the underestimation is believed to be about

take in a letter from Michael Neubert, the junior defence minister. Mr McFall is pressing three millisieverts a year. John McFall, the Dumbarton MP, was informed of the misand whether it has military as for more information on how the neutron radiation arises well neutron radiation arises environmental

Mr McFall, who is a member fence Committee, has been advised that excess activity inside of the House of Commons Deplutonium core and hence its would reduce the purity of the the Polaris-Chevaline warhead

However, the ministry said last night that "the underestiexplosive power. mation of neutron radiation at Coulport has no implications ness of the Polaris-Chevaline for the operational effective-

nuclear deterrent".

fore were not issued with dose nificant radiation, and therenot thought to be subject to sigexposing the workers to levels above the five millisievert legal meters, have now had to be classified as radiation workers. mitting a criminal offence by stresses that it does not believe The MoD may have been comthe total levels were more than limit, although the ministry Workers who up to now were

that the finding raised serious questions about the health of double that. of Britain's deterrent. He deworkers and the effectiveness the health of all workers connected with the maintenance of manded an immediate check on the warheads. Mr McFall said yesterday

"Having taken expert advice, it appears that these neutron but more likely as a result of | nitrogen. It is the worst sort of unexpectedly large activity in- | radiation." emissions could be caused by He said:

side the warheads themselves. half as effective as we thought." Polaris weapons might not be If it is excess activity, then our

liamentary questions yester-day, and has been offered a fuller explanation" meeting with Mr Neubert "for a Mr McFall put down 26 par-

been informed by the ministry more radioactivity. Each them to be exposed to much them have been reclassified as of their exposure and many of may also have been exposed. meters to allow levels to be worker will be given two dose radiation workers, allowing sonnel on Polaris submarines recorded accurately. Navy per-Workers at Coulport have

John Large, independent consultant to Mr McFall, said: "In bombarded with minute pieces effect, the workers are being atoms like oxygen, carbon and of matter which pass right through them, reacting with

## hallenge on nucle submarine faul

called for last night by John has led to an inspection of all nuclear submarines which in one of the Royal Navy's AN explanation of the fault Dumbarton, writes JOANNE ROBERTSON. McFall, the Labour MP for five Valiant submarines was Mr McFall, whose con-

stituency includes Faslane, demanded that the problem class subs were in port. He debate on the navy that three told the Commons during a system in the Rolls-Royce turbo meant that "if there's a clarified and made public, with each submarine be Valiant and three Resolution arguing crack in one of them there's that the cooling

a crack in all of the Archie Hamilton, answer, covery of a techni Following the re marines are being measure when vessels are, howe powered submarin from operations inspected as a prealongside." Roland Boyes, The armed forces one of our said:

the cooling system spite might be irr ington, demanded MP for Houghton Valiant subs had learnt that the immediately after

that could be adrift in the Clyde. Munitions We can be professionally certain that there inert and harmless, unless disturbed by with a war charge would be on the bottom, are no buoyant weapons with a war charge trawling fishermen's nets, for example

Herald, 15th August, 1986 Ministry of Defence spokesman. Glasgow