THIS IS A PUBLIC INFORMATION BOOKLET

prepared by

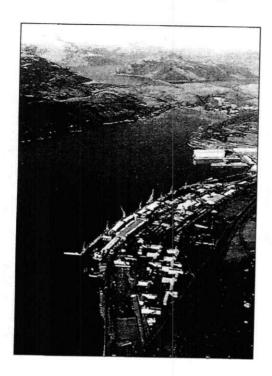
THE NAVAL BASE COMMANDER

HM NAVAL BASE CLYDE

for residents in the

RAHANE, MAMBEG, GARELOCHHEAD, FASLANE

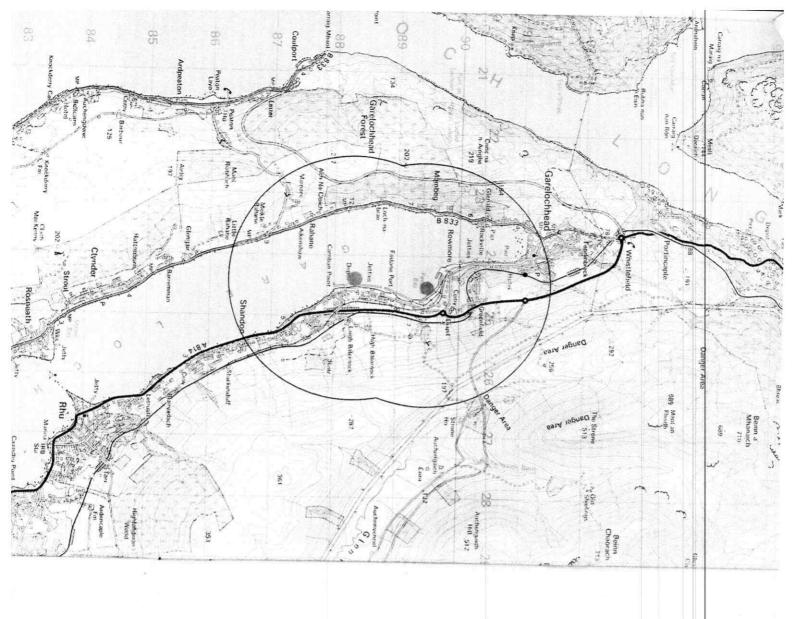
and SHANDON AREAS



WHAT TO DO IN A RADIATION EMERGENCY

(2002)





INTRODUCTION

simple but it is recognised that co-operation by members of the because of any increased risk from submarine operations purely in the interests of greater public awareness and not effectiveness. It it emphasised that this guide is produced public, based on prior understanding, will enhance their Naval Base CLYDE. These pre-planned measures are very - (REPPIR) and in this case the nuclear site near you is HM residents of the Rahane, Mambeg, Garelochhead, Faslane and conjunction with Argyll & Bute Council, in the interest of the Preparedness and Public Information) Regulations 2001 their health in the unlikely event of a radiation emergency. near nuclear sites of the existing measures planned to protect regulations to inform members of the public who live in areas Shandon neighbourhoods. The Government has introduced These regulations are called the Radiation (Emergency This guide has been prepared by the Ministry of Defence, in

Nuclear powered submarines of the Royal Navy are designed and operated to stringent standards of safety and have been operating without any form of nuclear accident for over 30 years. Whilst an accident to a submarine nuclear reactor is, by design, an extremely unlikely event, it is nevertheless Ministry of Defence policy that emergency procedures for the protection of the public should be available and exercised regularly. Contingency plans for a submarine reactor accident were established when the nuclear submarine programme began.

The contingency plan for your area, the Clyde Off Site Emergency Plan provides full details of the measures required to protect you in the extremely unlikely event of a reactor accident occurring.

The Off Site Emergency Plan details the emergency safety requirements and management arrangements required for the protection of the public. This document has been developed over the years in direct conjunction with Argyll & Bute Council and the Emergency Services. It is a public document which may be obtainable via your public library or council offices. Some members of the public will be familiar with the Off Site Emergency Plan.

This leaflet is intended to provide a simple guide on the actions you may be advised to take. It is issued with information leaflets produced by the National Radiological Board which give a general explanation of radiation and its effects and of national nuclear emergency arrangements. You may wish to keep these leaflets for ease of reference.

The Off Site Emergency Plan details a 'Pre Planned Countermeasure Zone' (a health protection measure) extending 2km from the submarine berths at Faslane. The REPPIR legislation requires detailed plans for Shelter and distribution of Stable Iodine (Potassium Iodate Tablets) in the 2km area. REPPIR also requires the issue of this information leaflet to all personnel living or working within the 2km distance. The map contained in this leaflet details the 2km area.

It is highlighted that in the interests of ensuring effective public information these leaflets have also been distributed to properties beyond the designated 2km area. This is to ensure that all personnel are included where a property is located outwith the designated area but there natural geographic boundaries do not allow a simple and clear demarcation.

Many members of the public may have anxieties about nuclear reactors, perhaps through concern of the unknown.

A few words of explanation may therefore be helpful. These propulsion plants are designed to be exceptionally safe and large numbers of responsible and thoroughly trained personnel not only safeguard them continuously but also actually live with them in their submarines. The reactor does no more than act as a source of heat to raise steam to drive conventional steam turbines. Under no circumstances could a nuclear submarine accident generate an atomic bomb type explosion.

contamination had been detected by specialist monitoring be justified if specific levels of radiation or radioactive were to occur, the risk to members of the public would be so low that pre-planned measures for public protection would only immediate threat to life. Even if this extremely unlikely event radioactive particles. It is emphasised that there would be no submarine and in the downwind direction. In this case, the dust-like particles, it would only affect areas close to the escape of some of this material, which is mainly in the form of submarine hull. If circumstances did arise resulting in the by gamma rays (which are similar to x-rays), but these would hazard to health would be from contamination by the radioactive material would, by design, be contained within the have little effect beyond 0.5km from the hull of the vessel. All submarine reactor, people at very close range could be affected In the unlikely event of an accident involving a nuclear

Specialist Ministry of Defence monitoring teams, based at Rhu, are not only on constant standby in the Gareloch area to monitor for any abnormal radiation or radioactive contamination in the event of an accident but they also routinely monitor the local countryside to record the **normal** levels of natural radiation as a basis for identifying abnormal levels.

Stable Iodine (Potassium Iodate Tablets), food and drink will, if necessary, set in motion the simple protective measures restrictions or evacuation described overleaf. These may include shelter, distribution of in conjunction with Local Authorities, and other Civil agencies safety. Although Naval and Civil authorities would be working responsibility. If a hazard to the public is identified, the police together, public safety measures remain a Civil authority would act as adviser to the Civil authorities in matters of public action to alert the local Civil authorities, in particular the Naval Base would be for all personnel to shelter indoors. event of a submarine accident occurring, these alarms would Police, to the situation. Thereafter, the Naval Base Commander immediately. The principal immediate action within the sound and automatic emergency procedures would commence nuclear accident alarm sirens which are regularly tested. In the The Naval Base Commander would also initiate immediate Residents who live close to the Base may have heard the

WHAT YOU MAY BE ADVISED TO DO

If you are advised by the police of a radiation emergency, you should remain calm and follow this advice promptly but without rushing:

. SHELTER

- (a) The best thing to do is to go indoors and stay there. Do not go outside where there may be an airborne radiation hazard.
- (b) Close all doors and windows to minimise the risk of any possible contamination entering the building.
- (c) Switch off fans, close ventilators, and damp down or extinguish open fires to prevent any possible contamination being drawn into the house.
- (d) Keep domestic pets indoors (to prevent them from bringing possible contamination into the house).
- (e) Do not attempt to collect children from school. Their teachers and the police will ensure that they are looked after.

2. PLEASE DO NOT USE THE TELEPHONE

(Unless you need urgent help)

- (a) In any emergency situation the telephone system becomes overloaded.
- (b) If you must make an urgent call, please be brief

If a genuine emergency has occurred, information and advice will be broadcast on your local radio and TV by official announcement. If possible, you should tune your radio to Radio Clyde (102.5 MHz FM or 1152 KHz AM), Radio Scotland (92.4 - 94.7 MHz FM or 810 KHz AM) or your television to STV or BBC Scotland.

DO NOT LEAVE THE AREA

You will be much safer indoors. Please do not be tempted to evacuate the area unless told to do so by the police, in which case you should follow the advice given in paragraph 7. If you try to leave earlier you may block the roads for emergency services.

. STABLE IODINE

If it is considered that there is any risk of you being affected by radioactive contamination your local Health Board may advise you to take Stable Iodine (Potassium Iodate) tablets. Stocks of these tablets are held locally and will be issued if required. These tablets have the beneficial effect of helping the body to reject radioactive iodine which would be a constituent of any reactor accident contamination. The tablets are very small and the easiest way to take them is with a drink of some sort. They are unlikely to produce any side effects and will not interfere with any other medications. Detailed instructions, including those for infants, will be given to you on a leaflet accompanying the tablets.

6. FOOD AND DRINK

Food and drink in your house and tap water from public water supplies are most unlikely to be affected. Government agencies will provide advice to users of private water supplies and on consumption of other foodstuffs such as freshly grown vegetables. This advice will be broadcast on your local radio and television. Advice will also be given to farmers, fishermen and other food producers.

WHAT ABOUT EVACUATION?

- by switching off power supplies, locking doors and come to no harm if left behind. Make your property safe Household pets may be taken with you although they will overnight bag with toiletries and personal effects and any will be advised to take with you warm clothing and an would be arranged by the police where necessary. You to use your own transport wherever possible but transport are likely to be significantly greater than any possible emphasised that the dangers arising from panic evacuation prescribed medicines that you are currently taking. inside the 'countermeasures zone'. You would be advised residents concerned. The police hold details of residents necessary the police will be responsible for contacting the radiation hazards. However, should evacuation become be necessary to evacuate people from their homes and it is It is most unlikely that in the event of an accident it will promptly. There will be no immediate physical danger. In the event of an accident, sheltering indoors, as described in paragraph 1 is the correct action to take
- 8. The Argyll & Bute Council have contingency plans for feeding and accommodating people in areas liable to be affected. Families who may wish to stay with friends or relatives will be encouraged to do so but it is important that contact is made with the reception centre to which you are directed to allow the police to account for you. Special arrangements will be made by the police and Area Health Board for the care of the aged, sick and disabled. Arrangements will also be made to ensure that family members not present at the time of the evacuation eg. children at school, are reunited with their families.

Annex A

9. RE-ENTRY TO EVACUATED SECTORS

Re-entry to any evacuated sectors during the emergency will normally be restricted by the police to persons having compelling reasons for doing so. Arrangements could be made, for example, for essential feeding of farm livestock

10. END OF THE EMERGENCY

As the emergency eases, there may well be adjustments to these countermeasures until the point when the emergency is declared to be over. Members of the public will then be advised that special precautions are no longer required.

CLYDE OFF SITE EMERGENCY PLAN

COMPOSITION OF LOCAL LIAISON COMMITTEE

Civilian Representation from:

Argyll & Bute Council
Strathclyde Police
Strathclyde Fire Brigade
West Dunbartonshire Council
Renfrewshire Council
Inverclyde Council
North Ayrshire Council
South Ayrshire Council
Greater Glasgow NHS Board
Argyll & Clyde NHS Board
Ayrshire & Arran NHS Board
Scottish Executive: Justice Department

Environmental and Rural Affairs Department

Dept. of Clinical Physics and Bio-Engineering
The Clyde Port Operations Ltd.
British Energy Generation (UK) Ltd.
Scottish Ambulance Service
United Kingdom Atomic Energy Authority
Scottish Environment Protection Agency
Health and Safety Executive (Nuclear Installations Inspectorate)
National Radiological Protection Board
Food Standards Agency

Naval Representation from:

The Director, HM Naval Base Clyde (Chairman)
Director of Safety Assurance
Head of Nuclear Safety Assurance, HM Naval Base Clyde
Captain of the Base, HM Naval Base Clyde
Superintendent, Royal Naval Armaments Depot, Coulport
Chairman, Naval Nuclear Regulatory Panel
Naval Medical Officer of Health, Scotland
Head of Safety, Environment Assurance
Public Relations Officer, Clyde
Base Radiation Protection Adviser
Nuclear Emergency Planning Officer

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Additional members may attend in exceptional circumstances with the prior consent of the Chairman.