Stratacee.

NUCLEAR WAR AND YOU

OUR RESOLUTIONS

ON July 8, 1981, the following resolution was passed by a large majority by Strathclyde Regional Council: "That this Council opposes the Atomic Missile Base at Coulport and demands the removal of all atomic weapons and bases in Strathclyde and Scotland."

ON September 1, 1981, by a large majority the Regional Council agreed to the lodging of objections to a proposal by the Ministry of Defence to develop an additional area of land at Coulport, Dumbarton, for the siting of the Trident Weapons System.

REGION SPELLS OUT ITS DUTY TO PUBLISH NUCLEAR FACTS

By Councillor DICK STEWART, Leader of Strathclyde Regional Council

RECENTLY the Government has made it clear that it wishes local authorities to make the public aware of what would happen if there were a nuclear war. It is also proposing to increase the home defence provision which is a local authority responsibility.

After all, many of the local authority services would have a major role to play in the situation.

This is why we have decided to publish this material. It is horrifying to read but while it does not, and cannot, claim to be fully accurate in its picture of Strathclyde after a nuclear attack

— we are not privy to a potential enemy's war plans — it is an informed picture of what is likely to be the case.



Edmb Artis Arra?

WHAT would happen if Strathclyde suffered nuclear attack? Nobody knows — but experts can make informed quesses.

The effects of a single nuclear explosion are well documented. Physicists can work out how a succession of bombs would totally destroy life and property within a certain radius and poison the air over a much wider area.

Strategists can predict the likely pattern of an attack aimed at destroying this country's weapons.

Medical experts can admit the impossibility of treating large numbers of people suffering from burns, shock and radiation sickness.

Social scientists can suggest how groups would react in desperation when the settled structures of their lives are destroyed and existence becomes a fight for food and basic necessities.

Administrators can explain the problems of maintaining services essential for health and safety without experienced staff and equipment.

These forecasts are reflected in the Government's home defence

FOCUS ON THE NUCLEAR THREAT

plans and in the instructions issued to local authorities to make arrangements for emergencies.

What they all take for granted is that some people will survive, and that they will survive in a world where most of what we take for granted has been destroyed.

This paper spells out how Strathclyde would be affected if these informed predictions were fulfilled.

It is not scare-mongering or pleading a special case — merely presenting the facts given in official reports and Government circulars.

ON THE BRINK OF THE FINAL

"AS a military man who has given half a century of active service, I say in all sincerity that the nuclear arms race has no military purpose. Wars cannot be fought with nuclear weapons. Their existence only adds to our perils because of the illusions which they have generated.

"The world now stands on

"The world now stands on the brink of the final abyss. Let us all resolve to take all possible, practical steps to ensure that we do not, through our own folly, go over the edge."

The late EARL MOUNTBATTEN of Burma shortly before he was murdered

INSIDE—How two million could die

THE NUCLEAR THREAT

WHAT would hap-

pen if a one megaton groundburst missile exploded

at the centre of

Immediately, a

crater 1,000 feet across

and 200 feet deep

would form. Debris

would pile up for three

miles around the

crater. Everything and

every person within

this area would be

The explosion would

cause a huge ball of fire

and for up to six miles

around George Square -

that is from Carmunnock

to Bishopbriggs, from

Cambuslang to Knights-

wood — anyone exposed

to the heat would suffer

from third degree burns.

The entire thickness of

their skins would be

destroyed and without

intensive medical

attention they would die.

Glasgow?

vaporised.

HOW IT MIGHT HAPPEN

IN a recent circular to local authorities, the Scottish Home and Health Department made it clear that changes had occured in strategic thinking, that preparations should be made for conventional as well as nuclear attacks and that the amount of warning of an impending attack might be measured in days rather than weeks.

"For planning purposes", states the circular "it must now be assumed that there may be as little as seven days' warning of an attack; the basic essentials

formed in 1981 in response to the

escalation of the arms race and the

Its membership includes natural and social

cientists, engineers and technologists, statis-

consequent danger of nuclear war.

veapons which might be used:

weapons store and a crisis

base for United States anti-

submarine warfare aircraft

- two 0.15 megaton

groundbursts and one 0.15

Bank — one 5 megaton

missile exploded in the

river would destroy

Greenock, Gourock and

Glasgow Airport would be

Inverkip Power Station — 1

Glasgow - 1 megaton

East Kilbride — 1 megaton

Bishopton — The Royal

Kirkintilloch, which houses the

SSEB electricity grid

control — 1 megaton

Motherwell — 1 megaton

The Holy Loch, the US Navy's

Poseidon submarine base

- 0.5 megaton ground-

urst. The entrance to the

Loch — 0.5 megaton water-

marine base — 0.5 megaton

groundburst. Entrance to

Gareloch — 0.5 megaton

Coulport which stores nuclear

missiles for submarines -

destroyed by a 0.5 megaton

Terminal — 0.5 megaton

Station — 1 megaton

facilities — 1 megaton

USAF military airlift com-

mand, USN transport, anti-

submarine warfare facili

ties, Scottish Air Traffic

Control and British Aero-

space - 1 megaton air-

Glen Douglas, The Finnart Oil

Hunterston Nuclear Power

Ardrossan oil refinery and port

Prestwick, which houses the

Faslane, the UK Polaris sub-

waterburst.

groundburst

groundburst.

groundburst.

airburst.

Ordnance Factory - 1

destroyed by a 1 megaton

Clyde Estuary at Tail of the

megaton airburst.

Port Glasgow.

groundburst

megaton airburst.

megaton airburst.

of plans should be capable of implementation within 48 hours."

Staff would be briefed on their roles before and after an attack.

The public would be requested to stay at home and warned that there would be no food or medical supplies provided if they

A major public information programme would begin and Government pamphlets "Protect and Survive" and "Domestic Nuclear Shelters" would be distributed.

People would be urged to construct domestic shelters either in their gardens or

"Protect and Survive" advises the construction of a "fallout" room in the innermost part of houses as well as a basic shelter inside this room.

Everyone would be instructed to stay inside the basic shelter for 48 hours after the attack and not to leave the fallout room for 14 days after the attack.

THE FEW WHO WOULD BE LEFT

> Against Nuclear Arms exercise, the total number of people killed out of Strathclyde's population of 2.4 million would be just under two million.
>
> IN OTHER WORDS, ONLY 20 PEOPLE IN EVERY 100 WOULD BE LEFT ALIVE.

Explosion

If the explosion took place at night when the weather was clear, anyone looking in the direction of the explosion from as far away as Edinburgh would be blinded - perhaps permanently.

On a clear day, anyone looking in the direction of the explosion from as far. out as Cumbernauld, Erskine, Kirkintilloch and

United States Office of ally from the south-west. they had left. Technology Assessment, Anyone in Glasgow There would be no and a half and six miles, tainly die from radiation. food.

Scientists Against Nuclear FIRE

BASED on last year's

Arms computer exercise, four

out of five fire-fighters in

Strathclyde could be killed or

incapacitated by a nuclear

This would leave around 600

effective personnel able to

Their effectiveness would,

would be unable to move out of

shelter because of killing but it is in these sparsely

however, be doubly limited.

radiation for at least 48 hours

after the attack — vet this

carry out fire-fighting duties.

Johnstone could also be direction of the pre-blinded. Vailing wind. In the West would find a world very According to the of Scotland this is gener-United States Office of Scotland this is gener-

deaths from blast but 25% adults would still die. The they needed. (In the UK treatment.

children would be higher. 100 acute burns cases can second category would be unless they were buried or Even in those areas survivors might be able to would be devastated and Radiation from fallout The survivors in the be handled at the same given any treatment. incinerated as soon as where the radiation count leave their shelters for a the central area made Health Service plans possible.

around the Solway Firth could

HE NEW

NGLISH

RIBLE

The BRITISH COUNCIL OF CHURCHES IN 1980 said that the non-replacement by the U.K. of Polaris would strengthen moves for nuclear non-proliferation.

The General Assembly of the UNITED FREE CHURCH if Scotland in 1982 commended the steps taken by the British Council of

mended the steps taken by the British Council of Churches.

The ROMAN CATHOLIC Bishops' Conference of Scotland said in March 1982: "It is true that, as long as there is no effective international authority capable of maintaining peace, a legitimate government cannot be denied the right of self-defence. We are convinced, however, that if it is immoral to use these weapons, it is also immoral to threaten their use."

very limited.

was less concentrated, whole of the Region was low there would be few hours a day after the completely uninhabit

covering survivors from be advised to stay in the

in a fit state to form spread the hazard to other

The full effects of allout nuclear war were spelled out in the Journal of the Royal Swedish

'I am become death, shatterer of

. . was the passage from Hindu scripture which flashed through the mind of Robert Oppenheimer, the man who led the team of scientists which de veloped the atomic bomb, as he watched the mushroom cloud from the first test weapon rise up toward the heavens above the Alamagordo, New Mexico, test site on July 16, 1945.

The attackand death rains from the heavens THE most accurate information available on what could happen in Strathclyde comes from a computer exercise run last year by Scientists Against Nuclear Arms (SANA), which is an independent organisation

The SANA exercise listed AND AFTER IT'S ALL OVER he following targets and the

to eat and drink.

distribution. Immediately after the attack cannot yet be made. affected by radiation sickness.

the priorities of the survivors would the Government's regulations go dependent on artificial fertilisers, be to avoid disease and get enough through by the local authorities. fuel, pesticides, and sophisticated

Supplies of preserved food would publication "Nuclear Weapons" have been destroyed, new systems probably be ample to sustain the (HMSO 1980) states: "Reasonable of food production would have to be remaining population for some time assessments of likely overall losses but there would be problems of on the harvest following nuclear

attack, there might even be a glut of "The early post-strike intensity of

The Home Office itself in its machinery, most of which would devised and these would take time to establish.

Industry, as we know it, would disappear almost completely. Apart attack, it would be largely irrelevant necessary for survival.

fresh meat as animals would have to fallout could also prevent or delay from the destruction of plant by the be slaughtered before they were harvesting operations with consequent crop losses. The sowing and to the needs of people struggling to Foraging in the ruins for cans of planting of essential crops could produce the food and basic shelter food would have to be controlled similarly be delayed."

vival — the supply of not, of course, affect the wholesome water, the wholesome water, the capacity of local authorities to deal with civil emerdisposal of waste pro- gency Planning Unit which ducts, the provision of has already assisted in coping support for the young, with floods, major fires, oil

They are the organisa- biological or chemical ment being unable to tions which run many of the basic services essential to a community's surdefence during the 1960s did locations. Assisted The Commissioner fo provision of protection gencies. The Regional Scotland would be assisted against fire and crime, the Council has a small Emer- by three Zone Commissioners and below these Zone

could be the time when fire would be destroying built-up The Government recognises this. In its circular "War Emergency Planning for the Fire Service" the Scottish Home and Health Department states: ...

attack.

... "In the period immediately following nuclear not be prejudiced. Planning should therefore be directed towards the preservation of the fire service for its role in the

longer survival period.'

Secondly, most of the sur

In the city and the built-up areas, those fire-fighters who survived would find that there was no water to tackle fires.

vivors would be in rural areas

populated areas that sophisti-

is least available

cated fire-fighting equipment

very south of the Region. Unlike other parts of the gets very little of its water from rivers through purifica- taminated by radio-active tion schemes, or from bore- fallout.

This has advantages and dis- Strathclyde is from the south- radiation sickness, untreated advantages. In time of peace west and nuclear attacks on injuries and problems caused Strathclyde water is about the Hunterston Nuclear Power by unhygenic living conditions

SEWERAGE EVERY day in Strathclyde around 240 million gallons of of order.

Rats and other creatures which inhabit the sewers would sewage pass through the Many water pipes are laid also be driven to the surface,

> There are around 4,500 miles of public sewers in the the pipes and it is unlikely that Region along with 142 sewage enough of the 1,100 staff in the works and 173 pumping sta-Sewerage Department would tions which carry sewage from

In the nuclear attack fore- many months or even years.

purest in Britain. But in times Station, the Faslane complex of war it could be easily con- and on government facilities of water.

The prevailing wind in

burst, they could contaminate drinking water remaining in disease. remain alive to be able to cope with the special problems for

would need double that amount

MEGATON — the equivalent of one million tons of TNT a high explosive. The bomb which was dropped on Hiroshima was the equivalent of 20,000 tons of TNT. A one megaton weapon is 50 times more powerful. FALLOUT - intense radiation is caused by the GROUNDBURST explosion of a nuclear nuclear weapon of one weapon. This radiation can megaton exploded at ground make ordinary things level would leave a crater radioactive. Fallout is 1,000 feet across and 200 caused when there is an feet deep. It would cause explosion close to the extensive fallout downwind ground and a vast amount of of the explosion. dust and soil particles are FIRESTORM — a firestorm is drawn up into the mushroom cloud. They fall back to the caused when many small ground over time ranging from minutes for the heaviest fires — particularly in a builtup area — join together. This particles to years for the blaze consumes all the oxygen in the air and sucks n more from the sur-OUSES TOTALLY DESTROYED 3 MILES DIV rounding area. This causes extremely high winds and people can be killed, not just by fire but by lack of oxygen HOUSES IRREPARABLY DAMAGED 41 MILES DIA HOUSES SEVERELY TO MODERATELY DAMAGED 11 MILES DIA

The effects of a one megaton ground burst on Glasgow. Apart from the massive destruction of property, everyone within three miles of the explosion would be vaporised.

'I am become death, shatterer

would travel in the Glasgow area who time).

58% of those within two who survived the blast but public services such as miles of the centre of the who left shelter during the gas, water, electricity, Survivors would be state: "People suffering There would be a explosion would be killed first 14 days after the sewerage, transport and divided into three cate- from radiation sickness growth of epidemics such by the blast. Between two attack would almost cer- very little medicine or gories. Those unlikely to only should not be as typhoid, cholera,

EVERY day Strathclyde supplies 250 million gallons of

water to consumers. Most of

the water comes from surface

areas, including small local

reservoirs mainly in country

Among the largest are Loch Katrine, Loch Lomond and the

Daer Valley scheme in the

survive after available admitted". killed and 45% injured. shelter, which cuts out as suffering from severe survive after available would be in a state of respiratory illnesses. Between six and nine much as 50% of the radia- burns would not be able treatment; those likely to shock. The decomposing

miles, there would be no tion, three out of ten to get the medical care survive even without corpses of human beings

rapidly contaminate and poison the main water

supplies.

Particularly to the north of

Glasgow, water pumping

stations and pipelines could

also sustain severe damage

which would prevent even

poisonous water being used for

Thé Government recom-

store enough water for 14 days

— this is equivalent to 3.5

Survivors suffering from

gallons for each person.

fire-fighting.

of the people would be death rate among at present not more than Only those in the serious health hazard epidemics.

If the prevailing southwest wind was blowing, hepatitis, dysentery, communities as far away Even in a fairly efficient Those who were treatment; those likely to Even healthy survivors tuberculosis and various as Tayside and Fife could

It is likely that all household pets would bomb. and animals would be a have to be killed to stop In areas where fallout exercise, almost the

be threatened by fatal fallout from the Glasgow by other strikes, as

the ruins of buildings.

rescue parties would be

predicted in the SANA

shelter most of the time.

A change of wind could

areas which are less likely

to sustain a direct attack.

would come from a single

bomb in the centre o

If it was accompanied

And this destruction

Academy of Sciences:..

"By the most conservative estimates, the survivors of this (global) nuclear war would suffer from 5.4 to 12.8 million tatal cancers: from 17 to 31 million would be rendered sterile; and between 6.4 and 16.3 million children are likely to be born with defects in the subsequent 100 vears.

mankind ...

The role in any conflict

ALL local authorities Government has shown signs regulations will not alter the have special responsibilities in times

of wishing to revive the civil defence service.

Local authorities have would be devolved to a of an emergency, been directed by Govern-number of Regional Com

cannot help themselves.

Expertise

Local authorities have Government issued a circu- Executives. staff with the expertise to run lar to local authorities indi-

such services; they are also cating that it had been carry- be part of the Western Zone the people on the spot with ing out a major review of which would also include experience of organising civil defence and was now in- Central Region and things in their own area. In viting local authorities to Dumfries and Galloway an emergency which destroys step up their expenditure on Region. the normal chain of govern- it. ment they are the people best New regulations about have to make plans, as

laced to take local control. civil defence will shortly be directed by the Secretary of During the 1960s, succes- placed before Parliament. State, "to deal with populasive governments ran down civil defence but the present be included in these new tion movement in the face of a threat of hostile attack."

whether that emer- ment to "mitigate as far as missioners, including one for gency be a wartime practicable the effects of any Scotland (treated as a single direct attack involving the Region for this purpose), i one or a civil one. use of conventional, nuclear, the event of central govern-

Commissioners there would be two further tiers, i.e. the old, sick and those who pollution, an ammunition Regional Controllers who train derailed in a tunnel and would be the Regional Chief other similar serious Executives and below them the District Controllers, who In February 1982, the would be the District Chief

Strathclyde Region would Regional Councils will also

attack, it is envisaged that fire-fighting would be undertaken only when the return is judged to be worthwhile and where the survival of organised fire service resources would

low-lying areas.

and Shieldhall and many of the epidemics.

close to sewers. If the sewers carrying many bacteria and viruses which would cause

resistant to radio-activity than humans and would spread the epidemics.

They could infect domestic cast by SANA these systems At the same time, the attack pets and owners would be would be badly hit. The two would allow sewage to come to advised to destroy dogs, cats main sewage works at Dalmuir the surface and lead to various and other creatures as soon as possible.

DICK STEWART

Talks about Strathclyde's stance on the nuclear threat



What we believe

WHY did the Regional Council refuse to take part in the Government's civil defence exercise called Hard Rock last autumn? Surely it is in everyone's interest that as much preparation as possible should be made to deal with an event like a nuclear attack?

CIVIL defence is largely aimed at preserving the machinery of government. Successive administrations have made it clear that there would be no attempt to try to provide protection for the general public.

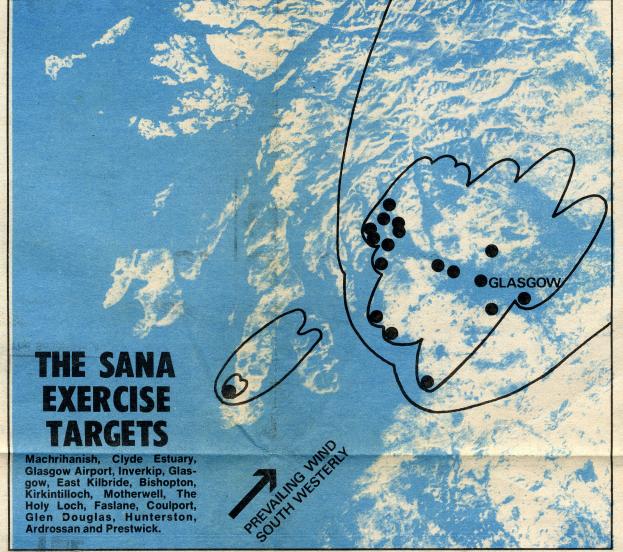
If government was concerned to protect the public, it would be spending the thousands of millions of pounds needed to provide underground shelters for the people of Britain.

Instead, spending for the whole of Scotland for 1983/84 is £2.3 million — equal to 42p per head of population.

The Regional Council considers that the presence of so many nuclear bases around the Clyde makes the West of Scotland a prime target for nuclear attack.

That is why, in seeking to have the area of Strathclyde recognised as a nuclear-free zone, we demand their removal

IT is clear that the West of Scotland is a prime target but surely the "balance of terror" means that any enemy would be deterred from creating such a holocaust themselves as well as for us?



The Scientists Against Nuclear Arms (SANA) exercise Strathclyde targets, and the resulting lethal radioactive

THAT has been the view of successive governments in the past and may well have been true then.

But weapons can now be targeted with incredible precision against other weapons rather than against cities. This makes the military believe now in the possibility of pre-emptive strikes.

Secondly, there are now so many weapons — about 20 times more than needed to kill the whole world - owned by a growing number of diverse regimes that the danger of accidental war has greatly increased.

It was essentially those reasons which led so many people in Strathclyde over the past couple of years to demonstrate their concern and persuaded the Regional Council to commit itself to the campaign for the removal of nuclear bases.

WHAT has the Regional Council done to pursue this commitment?

- Lodged an objection to the development of the Trident base at
- Organised a public inquiry to explore the various planning and strategic arguments in relation
- to this proposal.

 Through various means such as this newspaper attempted to ensure wider understanding and debate of these crucial issues.
- Refused to take part in the Government's civil defence exercise planned for the autumn

The source material

THE sources from which this publication has been produced are all publicly available. None is restricted or classified in any way although some may have been at an earlier date.

Those Scottish Home and Health Department circulars in the ES (Scot) i.e.. Emergency Services (Scotland) series which are not now restricted or classi-

are not now restricted or classified.

fied.
Nuclear Weapons, Scottish
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various Committees, including
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Council, Abstract of Accounts and
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Councillor DICK STEWART is Leader of Strathclyde Regional Council

Strong support for One-man rule over **Trident inquiry**

THE Government recently announced its plan to replace the independent weapon system carried in Polaris submarines and based at Coulport on the Clyde with the Trident

Unlike normal planning applications, the Ministry of Defence proposals are not subject to the decisions of local government.

A District Council Planning Committee can decide on whether or not to allow a "hot food carry-out" to open but neither it nor the Regional Council — the strategic planning authority - is allowed to decide whether or not there should be a nuclear weapons base on someone's

Development

Normally on a development of this scale, there would be a public inquiry to allow the various arguments to be put to an independent person who would report his views to the Secretary of State.

Twelve months after the initial advertisement of the Coulport proposals, there was still no indication that the Government would hold a public inquiry and allow the and debated democratically.

Strathclyde Regional Council, with the support of almost all the 19 District Councils, decided to organise a public inquiry of its own.

The terms of reference for the inquiry are: "To receive and consider with regard to the Government's proposed siting of Trident missiles at Coulport, Dumbarton, all the evidence, whether written or verbal, before them on the impact of Trident on employment, services, health, safety, pollution, propensity to nuclear attack and any other matter which they consider relevant and thereafter to assess that evidence and report their findings on it to the Regional Council."

those who survive

IN the aftermath of a nuclear attack, the present system of control would break down.

Experience shows that looting and violence would probably be common.

public order would be the Edinburgh. responsibility of Regional

LAW AND ORDER IS A PRIORITY

there would be one for The maintenance of Scotland based in

responsibility of Regional His powers would be Commissioners of whom backed by surviving police

and armed forces and a system of courts with emergency powers.

To quote a Home Office circular: "In conditions in which death, destruction and injury were commonpenalties than would be generally acceptable in peace-time . . .

place, such penalties as probation, fines or sentences of imprisonment would no longer be effective. Such penalties as communal labour, restricted rations and exposure to public disapproval might be appropriate for all but the gravest offences but, in the case of flagrantly anti-social behaviour, there might be a need for harsher

time.

PR/0283935

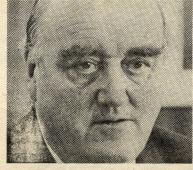
1977... The short-term effects of a nuclear attack on Scotland. Scientists Against Nuclear Arms. 1982; London After The Bomb. Oxford University Press, 1982; Beneath City Streets. P. Laurie, Granada, 1978; Ground Zero. SANA (West Midlands), 1982; Apocalypse Now. Lords Mountbatten. Noel-Baker and Zuckerman. Spokesman, 1980. Published by Strathclyde Regional Council, Strathclyde House, 20 India

. "Regional Commissioners, acting through their commissioners of justice, would be empowered to impose such penalties as they thought fit in the light of conditions and circumstances at that

"AS the British Government's White Paper on Defence put it as long ago as 1957, there are no means of protecting the population against the consequences of

LORD ZUCKERMAN, formerly Chief

SURELY THEY MUST KNOW.



. IT is right for information about civil defence and the likely effects of a future war involving the UK to be made generally available in peacetime. The public has a right to knowledge of these matters."

Rt. Honourable WILLIAM WHITE-LAW PC, MP, Home Secretary — February 2, 1982, House of Com-



"IN an all-out nuclear war, more destructive power than in all of World War II would be unleashed every second . . . The survivors, if any, would live in despair and the poisoned ruins of a civilisation that had committed suicide . . .

President JIMMY CARTER in his farewell address to the Nation — January 14, 1981.



Scientific Adviser to the Ministry of Defence, in Nuclear Illusion and Reality, Collins 1982.

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