

FIGHTING CHANCE

John 8: 31-32

Proverbs 22: 3

Newsletter Vol. II, No. 10

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THE REAL OPPOSITION TO AMERICAN HOMELAND DEFENSE

Regardless of President Reagan's initiatives for homeland defenses in 1981 and 1983 and regardless of the fact that the policy of vengeance which has preoccupied American military planners for the last 25 years is becoming unworkable, no realistic progress is being made toward the actual deployment of civil defense or strategic defense in the United States. The military planners claim that we are still defended by mutual assured destruction, MAD, the threat to kill the enslaved people behind the Iron Curtain if their slave masters kill us.

During the current Soviet propaganda campaigns, Americans are also being led to believe that the Soviet elitists are not really that bad after all. This molds public opinion to allow further acts of military and economic appeasement in order to postpone attack by the Soviet military machine.

The Soviets, meanwhile, have deployed a complete civil defense system, a rapidly expanding strategic defense system, and hundreds of thousands of tons of chemical warfare agents in addition to their ongoing rapid development of biological weapons. They have an enormous first-strike nuclear arsenal.

Soviet offensive and defensive technologies have made the MAD doctrine obsolete. In fact, even during the Carter administration, Secretary of Defense, Harold Brown estimated that, in an all-out nuclear war, the Soviets would have fewer casualties than in World War II, while the United States would lose 70% of its people and virtually cease to exist as a nation. So much for the practical aspects of MAD. Its moral aspects were never conscionable.

Why then does the United States cling to a military program that spends nearly all of its resources on offensive weapons to implement a strategy that no longer works? With defensive technology so well developed that Kremlin war planners spend *half* of their resources on *defense*, why does the United States spend virtually nothing on defense? After

all, the Soviets are supposed to be the threat. We are supposed to have a firm policy of defending the American homeland.

The answer to this question concerning strategic defense is well documented in the book by Dr. Angelo Codevilla, *While Others Build* (The Free Press, New York, 1988). The answer concerning civil defense is documented in previous issues of this newsletter. In both cases the answer is the same. The responsibility does not lie with "peace groups", left-wing politicians, or other high-profile opponents of defense. It does lie with Congress, but only in a second-hand way.

The principal and most effective opponents of the deployment of civil defense and strategic defense are the United States Department of Defense and their industrial and political allies in the American defense establishment. Although not all members of the defense establishment are opposed to homeland defenses and some actively favor them, those who are opposed to homeland defense are by far the more numerous and the more powerful.

The motivation for this opposition is financial and professional self-interest and maintenance of political power. Congress gets its defense information almost entirely from this defense establishment. \$300 billion in direct economic interest constitutes the most powerful political lobbying effort in America. The defense moguls are just not telling Congress the truth about strategic or civil defense.

Congress meanwhile is made up of an increasingly inbred collection of former lawyers and professional politicians. They have virtually no training in science and technology nor even in the mental processes required to understand the military aspects of science and technology.

I have checked and re-checked this allegation that the Defense Department is the primary influence suppressing civil defense. It is unquestionably accurate. The Defense Department politically supports a small budget for an ineffective bureaucratic agency, the Federal Emergency Management Agency, FEMA, which is given responsibility for civil defense. However, when efforts are made by truly patriotic individuals within FEMA or elsewhere to fund and implement effective civil defenses, the Defense Department blocks and obstructs them.

FEMA serves as an excuse. Defense can always point to them as the responsible agency. Politicians can always say that they support civil defense, because they support the FEMA budget. That budget, of course, is deliberately kept so tiny, that it could not provide much defense even if the bureaucrats were not wasting most of it. How much civil defense hardware and training could you provide for about 50 cents per American per year?

There are several reasons for this opposition. The primary one is financial competition. America's \$300 billion-per-year defense budget is already divided between thousands of fiefdoms under the sponsorship of the various military services. Neither the services nor these fiefdoms want any additional competition. Strategic defense and civil defense are not seen by these fiefdoms as technologies to preserve American lives and freedom. They are instead seen as merely competitors for the \$300 billion - competitors to be suppressed by any means available.

Therefore, strategic defense has been diverted into a research program on the entirely false premise that the technology is not yet deployable. (Maybe we should buy some of the non-deployable strategic defense technology that the Soviets are now deploying.) Civil defense technology is too well developed to be suppressed in this way, so other means, primarily behind-the-scenes budgetary and political methods, are used.

Congress is not told the truth about these homeland defense technologies. Moreover, many members of Congress do not want the truth anyway. If it re-elects them and extends their political power, it is of interest. Defense *spending* serves these interests. *Defense* does not.

The lawyers in Congress are running American defense like a civil lawsuit. Most lawsuits never go to trial. They are settled by negotiation *after* the lawyers have shown as strong a case as possible to their respective opponents through depositions, discovery, and other expensive legal maneuvers.

Congress is told by the defense establishment that America's defense "case" is so strong that the Soviets will not dare go to trial. They'll want to settle out of court for a few \$100 billion in taxpayer money and a large transfer of Western technology and production. It is the allegation of Soviet perceptions that is important to them - not the reality of America's military survivability.

Who cares if well-informed school children could see the obvious weaknesses in America's position. The Defense Establishment has "witnesses" who say everything is fine. In civil law the credibility of your witnesses is often more important than their truthfulness. \$300 billion buys an army of very credible witnesses.

This opposition to homeland defense works so well, that virtually no other mechanism is needed. The bureaucrats and businessmen fight so hard to protect their individual turfs that the whole process takes place automatically. They do not even need to be organized.

NEW MYTHS

Myths have become the hallmarks of the nuclear age. As our science and technology become more and more advanced and make possible a truly new era in the quality of human life, there seems to be a parallel increase in mythology, mysticism, and irrationality. This irrationality is being used by elitist elements to hamstring our technology and to maintain and extend their own positions of privilege.

Like elitists throughout history, they do not care how much human suffering and misery they cause so long as they are able to live in luxury and enjoy a sense of power. The propagation of debilitating myths is a major mechanism for the extension of power. As one myth grows old, it is replaced by another.

Propagation of myths among the American people is being especially enhanced today by two factors. First, the decay of our school curricula, especially in the physical sciences, has left the American people increasingly ignorant about natural truth and about the thought processes that are useful in accurately determining the truth. Second, a large percentage of American minds have been seized by the passive media of television. The evening news manipulators are becoming substitutes for individual thought.

Let us look at five new (actually they are replays of old themes) myths:

1. *Now that the Soviets have instituted political reforms at home they no longer constitute a threat.*

Did anyone see the recent films of Soviet tanks moving on civilians in Soviet Georgia? That was just after the news that all hunting rifles in the region had been confiscated by the Soviets. Apparently the Georgians carried the "new thinking" a little too far, so the old thinking reasserted itself.

The Soviets have over 10,000 nuclear warheads aimed at our families and our country. They have increased this arsenal substantially during the past two years while their "new thinking" was presumably changing them. They have murdered over 69 million of their own citizens in order to maintain political power. Recently they murdered over one million Afghans.

It is apparently true that they are reforming their internal political system somewhat. If they keep reforming and opening their society, they may eventually achieve a level of internal freedom comparable to that of many of the world's other military dictatorships and totalitarian states. Will they be a threat then? They will still have the weapons and a mentality which has committed mass murder in the past.

Every civilization has needed to protect itself against the current technological threat. America is no exception. No one has ever been protected by wishful thinking or the promises of aggressors.

2. The Soviets appear to be in serious economic trouble, so they could not possibly wage a successful war against the United States.

Of course they are in economic trouble. They have been in economic trouble for 75 years.

The Soviet socialist economy, like socialism in general, is very inefficient. In addition, the Soviets have diverted virtually their entire economy into the production of military power. This has been going on for three generations.

Soviet strategy is simple. The elite cannot keep their power and privileges without totalitarian controls. These controls create drastic limitations on economic productivity. Therefore they put the entire production of their controlled economy into armament. Then they explain to the free world that they need money and consumer goods. The free world, threatened by their massive armament, gives them the money and goods.

The Soviet economy is well suited to the mass production of weapons, since they pay low wages to the Soviet laborers. These low costs in combination with Western capital (Western private bank loans to the Soviet Union are millions of dollars per *hour* and subsidized trade is even higher.) produce vast quantities of conventional arms as well as sophisticated nuclear weapons.

What happens when economic appeasement no longer works with the Soviets? Appeasement always fails eventually.

3. A careful analysis of Soviet claims regarding their technology indicates that: A. They frequently fake claims. B. They build "show pieces", but have no in depth-stockpiles of reliable hardware. C. Their mass-produced weapons tend to be crudely constructed and of limited capability.

The Soviets have a whole department of their military devoted to deception and "faking claims." This has been a standard practice in Russia for generations. They believe in the

advantage of **surprise** in military action. Nothing aids surprise more than secrecy and deception.

First, remember that this is the nuclear age. Victory can be achieved in a few hours of surprise combat with a small number of high-technology weapons.

Do the Soviets have high technology? During April they decided to pull their men out of their orbiting space station temporarily. The station is now vacant - *for the first time in two years*. America has no space station at all. Congress has been talking for years about perhaps trying to build one. Currently, over 75% of payloads going into earth orbit are Soviet.

Second, what about those mass-produced weapons? Their assault rifles are so crude that the Chinese just copy them and sell them (until recently) to Americans. In Vietnam the Soviet rifles of the Viet Cong were far superior to the American weapons. They were so good that the American military refused Cresson Kearny permission to formally test them against American rifles even though he was officially there for just such evaluations.

The Russian AK-47 is certainly mass-produced, low-tech. It is mass produced partly, because every terrorist, dictator, and world class criminal worth his salt wants his people armed with it. Like the 50,000 Soviet tanks ready to roll against the West, the AK-47 is a low-tech, proven item. When the tanks roll, surprise them. Aim your high tech word processor back at the tanks and AK-47s - if it still works after the EMP from a single nuclear burst high above the United States has wiped out all of the transistorized and integrated circuits in the country.

The Soviet military deception unit has a very successful record. They fooled Kennedy into thinking that the Soviets had *more* nuclear weapons in 1960 than they actually possessed. They also fooled the Nazi generals (after these two allies started to squabble) into thinking they had *fewer* tanks and artillery pieces than they actually possessed. The Germans destroyed the expected Soviet armament on schedule only to find themselves facing a new mass of armament which they did not have the resources to destroy.

4. The claims of Soviet military superiority during the past 40 years have been false. They are still false and will continue to be false.

There have certainly been exaggerated claims about Soviet power prior to recent times. These exaggerations were promoted by the Soviets themselves during their earlier period of military weakness relative to the United States. It is even possible that their currently superior position may diminish in the future.

What happens, however, if on any single day the Soviets conclude that their power is decisive and safe to use. What happens if they conclude that their military superiority has reached a maximum and is going to decline?

The assessments of Soviet armaments, their first strike strategy, their strategic defense, and their civil defense are based upon the independent analysis of many different authorities.

First, American spy airplanes and satellites have photographed the Soviet hardware in great detail. Second, independent British evaluations lead to the same conclusions. Third, interviews with Soviet emigres and escapees confirm these estimates. Fourth, Soviet books and magazines have been carefully evaluated by Sovietologists who reach corroborating conclusions.

Given the surveillance that the Soviets are subjected to by the West, it would probably be more costly for them to fake their navy, army, airforce, strategic rocket forces, strategic defense, and civil defense than it would be to build the real things.

With today's technology, it is relatively easy to conceal superiority by keeping the hardware in buildings or underground, but it is virtually impossible to fake superiority by displaying and testing hardware that does not exist.

5. *America has massive and effective defensive systems.*

America has no missile defense, very little air defense, and virtually no civil defense. **America has literally no effective defensive system whatever.**

These facts are admitted by all governmental authorities. America has built projectable, offensive military power. That is all. With our open society, free press, and publicity-seeking politicians, there is just no possibility whatever that secret defenses for America exist without our knowledge.

I have sometimes wondered what happened to the first KGB agents who reported to the Kremlin about the status of American defenses. Surely they must have been shot for lying and cooperating with the enemy. Their story that the American homeland itself was undefended must have seemed to the commissars to be the most ridiculous myth of all.

TRUSTING GORBACHEV

We reproduce below comments by Henry Kissinger and Caspar Weinberger which reflect upon the recent new image of the Soviet Union's top thug. The Kissinger quotes appeared in the *Freedom Bulletin* and on *Reuter* as reprinted by the *Daily News Digest*, and the Weinberger quote is reprinted from his column in *Forbes*.

"I don't give much credibility to the Communists as far as peace treaties are concerned....The problem is that when the US reaches an agreement we think history will be suspended at that very moment, while when the Communists sign an agreement, they know it's not the end but the continuation of a process."

"If everything (Soviet reforms) is really due to the personality of only one Soviet leader, we are all in deep trouble, because his term in office is bound to be more or less short."

"Choirboys do not become leaders of the USSR."

Henry Kissinger 17 March 1989

"My feeling has always been that if we rest our security on the answer to the question of whether we trust the General Secretary of the Communist Party of the Soviet Union, then we have already lost our security."

Caspar W. Weinberger 9 January 1989

According to General John Gavin, the Commander of United States forces in Europe, the Soviets have produced two combat aircraft and eight T-80 tanks every day, since Gorbachev came to power. They have produced another nuclear submarine every 37 days.

America is producing, too. She is producing, food, computers, and paper money to give to rescue the poor Soviets from the economic crisis brought on by socialism and a war-level military production schedule.

We should trust Gorbachev to be exactly what he is - the current leader of the best armed and most bloodstained tyranny the world has ever known.

If Adolph Hitler and the Nazis were to come back to life, hire an advertising agency, woo the press, and tell everyone what fine fellows they have decided to be, would Americans disarm themselves and join with Adolph and his boys to create a new era of "peace?" Yet Hitler, even in the worst estimates of his most implacable enemies, did not murder even a small fraction as many people as have the Soviets. Several hundred thousand of these murders have occurred since Gorbachev came to power.

SHELTER LIGHTING

There are many ways that light can be provided in a shelter. In the absence of prior preparation, you can even make an expedient lamp out of a little of the vegetable oil from your food supply as described in *Nuclear War Survival Skills*. It is better, however, to avoid fires inside your shelter.

During the few days that you would need to be continuously in the shelter, you should eat food that does not require cooking or other preparation. You should prepare to use electric lighting.

A 200 amp-hour, 12 volt storage battery will power a 0.25 amp, 12 volt light bulb for more than a month. You may prefer two 100 amp-hour batteries. This gives you redundancy and units that are a little easier to carry into the shelter.

Your local variety or automotive store probably carries small trouble lights for use with the cigarette lighter in an automobile. These have a small reflector, a clamp for holding the light in a convenient orientation, and sometimes a place for a spare bulb. Be sure to get several spare bulbs.

If you direct this light toward the ceiling of a cylindrical steel shelter that has been painted gloss white inside, you will be able to read with ease throughout the shelter.

You should use deep-discharge type batteries. Those used in recreational vehicles or in golf carts are widely available. If you want a better battery, talk to your local solar power expert. He may have something more expensive.

The batteries may be kept charged by periodic maintenance with a small automotive battery charger. A better solution is a recreational vehicle charging unit. These are available in most RV stores at a cost between \$150 and \$200. The charger remains plugged into your 110 volt source and trickle charges the batteries continuously. It also serves as a source of 12 volt power during normal times.

You may wish to equip the shelter like our mobile shelter display. That shelter has two 12 volt, 30 watt fluorescent lights which light it very brightly for normal use. It also has two 12 volt, 3 watt lights for emergency use. These are all connected to the RV charging system through separate switches. If you run all of these lights from the continuously charged batteries and make use of the bright lights during normal times, these lights will serve as a continual check of your 12 volt emergency system.

In a small shelter with a few occupants this 12 volt system may be expanded also to run a ventilation fan. The system described here for lights will be sufficient for ventilation, too, with the addition of an appropriate fan motor and more batteries. We are experimenting with this and will report on it in a later newsletter.

If you add to this system a single solar panel as described in the Volume II, Number 4, July 1988 issue of this newsletter, you will be able to slowly recharge your system post-attack. In the display shelter, we stored the panel against the ceiling inside the shelter. When the outside environment is safe, the panel is put outside and connected to the charging system by a wire through the entryway. This solar panel assures a long term source of 12 volt power for starting an occasional vehicle, powering a small radio, or other limited uses.

One 100 amp-hour, 12 volt battery and a light and spare bulbs sufficient for two weeks (assuming that you remember to charge the battery periodically with your \$30 auto battery charger) costs about \$100. The larger 12 volt system with the RV charger, lights, batteries, solar panel, wire, and switches costs about \$600.

Unless you are building a very large shelter for many occupants or unless you have other reasons for independent power, you do not need to consider a fuel powered generating system. If you do, the fuel of choice for safety and long term storage is diesel. Do not, however, put in a fuel powered generating system primarily for purposes of lighting. It is entirely unnecessary.

If you do build a fuel powered system, **do not put the generator or the fuel inside your shelter.** Put them a safe distance away in a separate shelter. The Soviets and Swiss do put fuel powered generators inside large shelters. They are always, however, carefully enclosed in a separate room of the shelter with sealed doors and separate ventilation systems. In effect, in these expensive concrete shelters, the generator is in a separate shelter.

JANE ORIENT VIDEOTAPE FOR CHILDREN

This is a video tape which was produced along with Dr. Orient's *Emergency Medicine* video presentation and the *Nuclear War Survival Skills* video series. Editing and reproduction are now completed, and the tape is available for \$29.50.

The tape shows a classroom session in which Dr. Orient talks with school children about nuclear war. She makes a classroom presentation and answers spontaneous questions from the students. It was made during a regular session of a small private Christian school in Grants Pass, Oregon.

Dr. Orient is a skilled speaker. She is especially good with children. During the making of this 100 minute tape, the class responded enthusiastically. We hope that this tape will allow the same presentation to be brought to many additional classes of young Americans.

MORE VIDEO TAPES

We are now working to complete two additional video tapes. The camera work and much of the audio is completed. We hope to complete the editing and reproduction by August 1989.

The first tape is a 30-minute motivational presentation which will be titled *Fighting Chance*. The audio presentation covers the principal facts and reasons which underlie our appeal for immediate installation of a civil defense system for all Americans. The video portion of this motivational tape will be a collage of pictures from the materials which we have collected on video tape for various purposes during the past two years.

These arguments are even stronger and more urgent in view of the current Soviet propaganda campaign in the West and the so-called "restructuring" within the Soviet Union. So far the achievements of this two-pronged Soviet effort have all decreased American security, increased Soviet military superiority, and raised the probability of war.

The second tape is a detailed tour of the mobile shelter display which we built for the Federal Emergency Management Agency. Those of you who live in the Washington, D.C. area may decide to visit this display at the National Emergency Training Center at Emmitsburg, Maryland. For those who do not see the actual display, this tape should provide a substitute.

There are now only two of these mobile units in the United States. The other is in Medford, Oregon. There should be many more. Experience has proved that Americans respond to the mobile display with curiosity, progressing to serious interest, followed quickly by a substantial understanding of the function and urgent necessity of a shelter system. Visitors are motivated to read literature in order to gain in-depth knowledge about civil defense. This is a remarkable educational tool.

A READY SHELTER

It is easy to fall into a complacent attitude when your shelter is installed and most of the items for its operation have been procured. After all, they are all in the garage. It will only take a few minutes to get them and you into the shelter.

In one sense this attitude is tolerable. If you have followed our instructions to have the water in the shelter, you can actually subsist there with little else. Human beings can go without food for about 30 days. They can huddle together on the floor of the shelter for warmth. They can live for brief periods under remarkably unsanitary conditions. If you are in or near a food producing region, you probably can find food after your shelter stay is over.

Your family's chance of survival will be higher, however, if you keep the shelter in a ready condition. Since groups of people keep touring our shelter, we had delayed filling it with the required items. When the children and I decided to put it in a really ready condition, we finished the job - in *two days*.

A ready shelter is fairly full. First, the second entryway blast door must be sealed and that entryway stacked completely full with filled water containers and long term food supplies. The irregular shapes of the containers allow plenty of air to pass. Be sure to assemble your blast valve and install your inlet dust filter before you fill this entryway. They are near the door end, so you have to move all this food and water back into the shelter to service them.

Second, in the middle of the shelter room there should be a stack of food, water and other supplies suitable for filling the other entryway after everyone is in the shelter. At a minimum, the six foot horizontal tunnel should be filled. If the shelter is large with plenty of room for supplies elsewhere, sand bags are even better for filling the horizontal tunnel.

The horizontal tunnels are provided for radiation protection. They protect the occupants against initial nuclear radiation from air burst weapons over the shelter. If the initial nuclear radiation is intense, enough of it will "turn" the two right angles in the entryways to kill the shelter occupants. Actually the turning process consists of nuclear interactions with the entryway walls, but the effect is the same.

The tunnels work only if they are filled with massive objects which can absorb this radiation. If you want to tell your friends that your shelter is safe even in the unlikely event of a 200-psi air burst right over the entryway, then you had better have enough sand bags stacked inside each tunnel to fill these six foot tunnels before that explosion takes place.

If sand bags are used, they should be stacked in a staggered manner. One two-foot stack fills the tunnel to within a few inches of the top. The second stack is started on a board which leaves the bottom few inches open and fills the tunnel to the top. Then the third two-foot stack is placed with a board against the tunnel side which allows a few inches of space.

The idea is to allow air to pass through the entryway in a configuration such that all straight-line paths for radiation must encounter at least four feet of sand. In most instances the initial nuclear radiation will be sufficiently reduced by filling the tunnel with your water and long term food supply.

Then all of your other supplies need to be installed. We have found that these are most conveniently stored in bags hung in the side curvature of a cylindrical shelter. If you provide some steel loops welded to the shelter sides for this, hanging the bags is quite simple.

You must have a radiation meter. It is best to have two - a commercial meter and a homemade Kearny fallout meter to make sure the commercial one is working. The Kearny meter requires no batteries or calibration. Moreover, its primary mode of failure is too-rapid discharge. This can be caused, for example, by dirty threads suspending the aluminum leaves. If this happens, the meter can scare you into remaining in your shelter too long.

Most commercial meters (all are far more unreliable than the Kearny meter) fail by giving readings which are too low. These failures would cause you to emerge from the shelter too soon with possibly fatal consequences.

You should also have hammocks or bed sheets and cord to make hammocks, sleeping bags or equivalent warm bedding and clothing, short-term food rations which can be eaten without cooking, medical supplies, a source of light, spare parts for your ventilation equipment, an assortment of tools, the materials for expedient ventilation equipment, an assortment of informational books, battery-powered radios, and any other equipment and supplies which you may need. These things should be in your shelter now.

You may want to leave the ventilation equipment running at low speed or install a fan to keep the shelter aired out and dry. This will help to keep the shelter and its supplies in good condition. If the air entrance is lower than the exit as it is in our shelter, convective ventilation will do this job for you. An alternative is to purchase a small dehumidifier and keep it running in the shelter. In any case, make sure the environment in your shelter remains dry. This is easy in a steel shelter, because it is completely water-tight.

Should you be doing all of this?

There are thousands of nuclear weapons aimed at the United States which are deliverable within a few minutes to a few hours. The United States has built no technological means to prevent their delivery. The weapons are in the hands of a country that has killed an estimated 69 million of its own civilians in peacetime during the past 70 years. The current leadership of that country just finished killing over one million civilians in Afghanistan.

The Christian responsibilities of parents toward their families under such circumstances are overwhelmingly clear. For non-Christians, surely even common sense dictates that they prepare a place of safety for their families.

LUWA BLAST VALVE INSTALLATION

There is a simple but serious error that can be made in the installation of the shelter exit air blast valve supplied with the LUWA 180 ventilation system. This error was made on our mobile shelter display. It is likely that some of you have made it.

The exit blast valve serves two purposes. First, it protects against blast pressure in the shelter. This is somewhat redundant in our standardized shelter design, because the blast valve assembly just below the door also serves this purpose.

The LUWA valve, however, also assures that a positive air pressure is maintained in the shelter. It will not open at all unless the shelter pressure is slightly higher than the outside pressure. (The exact excess pressure depends upon the air flow rate. It can be calculated from the graph which LUWA supplies.) A positive shelter air pressure is essential to the chemical and biological protection system, because it assures that any leaks in the shelter will be outward, away from the occupants.

This blast valve is *rectangular*. There is a similar valve in the front part of the inlet air prefilter assembly which also has a rectangular cross-section. The inlet valve must be installed *horizontally*, so that the inlet air pipe will point downward toward the rest of the unit. This implies that the exit valve should also be horizontal. **This is wrong.** The exit valve must be installed *vertically* for the overpressure feature to work. It is controlled by a gravity-balancing spring. If you install it horizontally, the overpressure feature will not work.

To confuse matters further, the exit valve comes with the German word for "top" printed at the end which should be up. The word, however, reads left to right only if the valve is in the incorrect horizontal position. If you do not read German, the wrong orientation will be further confirmed to you by this label.

Fortunately, the mounting bolt configuration for this valve is square. Therefore, you may be able to correct the orientation by simply unbolting the valve and turning it 90 degrees. If, however, you conserved fabrication steel by making the valve mounting plate rectangular to match the valve, the reoriented valve may hang over the top and bottom and therefore not seal the opening. In this case, the mounting plate must be cut off, turned 90 degrees, and rewelded.

These valves are so common in Switzerland, that no one thinks about the proper orientation. They just do it . The word "top" is placed on the valve to prevent the wrong vertical orientation which would be disoriented by 180 degrees.

POSTERS

When did you last see a civil defense poster in a public place?

In the Soviet Union civil defense posters are prominently displayed in schools rooms, factories, farm buildings, and other places of work and recreation. Special civil defense rooms are set aside in work places for the annual civil defense instruction which is mandatory for everyone throughout their schooling and adult life.

The Soviets have produced a great many detailed motivational and instructional posters which are used to remind the people about civil defense facts and procedures. On pages 14, 15 and 16 below we have reproduced three representative posters. The posters are very large. These three are less detailed than many, since the details are not easily discerned when the posters are reduced to our page size. Small numbers have been placed on these posters to correspond to the English translations of the Russian given below.

SHELTERS (page 16)

1. Shelters are means of collective protection of people against weapons of mass destruction. They can withstand the significant loads of excess pressure of a shock wave and protect people against light radiation, penetrating radiation, radioactive contamination, toxic substances and bacterial (biological) agents and the dangerous effect of high temperatures and the products of combustion during fires.
2. General appearance of a shelter. To prepare a shelter to receive the people taking refuge there freight containers are hauled in, bunks are set up, and other jobs are performed.
3. A shelter built into a building.
4. A separate shelter
5. Internal furnishing of a shelter
6. Filtration equipment of a shelter
7. Each person must know his place in the shelter at work and in the place of residence and be able to get to it quickly, without fuss.

CIVIL DEFENSE IS EVERYONE'S BUSINESS (page 15)

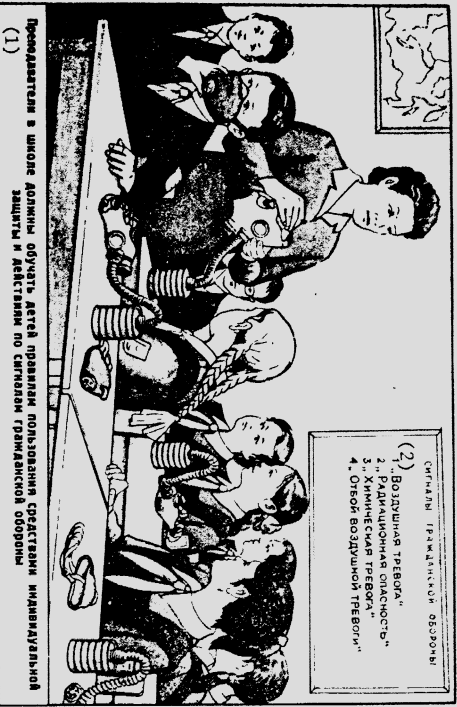
1. "A revolution is only worth something if it is able to defend itself" - V. I. Lenin
2. Civil defense as a system of national defense measures taken to protect the population and national economy against the enemy's modern weapons is the business of every citizen of the USSR.
3. Practical training period in civil defense at an industrial site
4. Veterinary treatment of animals during civil defense exercises in the countryside
5. Teaching schoolchildren the rules of using individual protective gear
6. The Armed Forces of the USSR are the protector of the peaceful labor of the Soviet people and the bulwark of world peace
7. Training period in civil defense at the place of residence
8. Joint exercise of personnel from military subunits and paramilitary civil defense formations
9. Inspection of paramilitary civil defense formations
10. Strengthen and improve civil defense, know the means and methods of protection against weapons of mass destruction, and be able to use them - This is the patriotic duty and obligation of every Soviet citizen.

THE DUTIES OF ADULTS TO PROTECT CHILDREN AGAINST WEAPONS OF MASS DESTRUCTION (page 14)

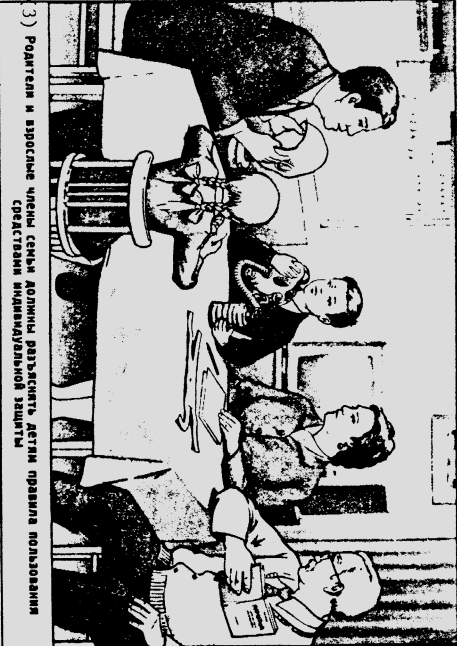
1. Teachers in school must teach the children the rules for using individual protective devices and what to do following civil defense signals
2. Civil defense signals - 2.1 Air alert; 2.2 Radiation danger; 2.3 Chemical alert; 2.4 All clear (after air alert)
3. Parents and adult family members must explain the rules for using individual protective devices to children
4. In an evacuation adults must take the food, clothing, and necessary documents for their children
5. At the signals "Air alert", "Radiation danger" and "Chemical alert" adults should direct children to the closest protective structures
6. Shelter
7. While in protective structures adults must see that children observe established rules of behavior
8. During rescue work priority is given to medical care for children and evacuating them from the center of contamination
9. Taking care to protect our children against weapons of mass destruction is the most humane and noble duty of the entire adult population of our country.

These posters speak for themselves. It is disgraceful that no equivalent materials have been produced by American authorities for the people of the United States. Even our current civil defense budget is sufficient for this.

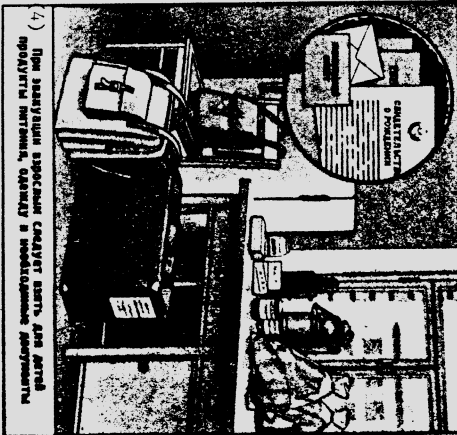
ОБЯЗАННОСТИ ВЗРОСЛЫХ ПО ЗАЩИТЕ ДЕТЕЙ ОТ ОРУЖИЯ МАССОВОГО ПОРАЖЕНИЯ



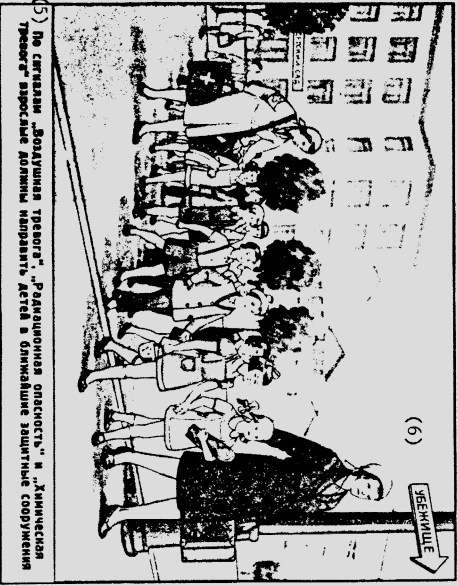
1) Продолжателем в школе должны обучать детей правилам пользования средствами индивидуальной защиты и действиями по сигналам гражданской обороны



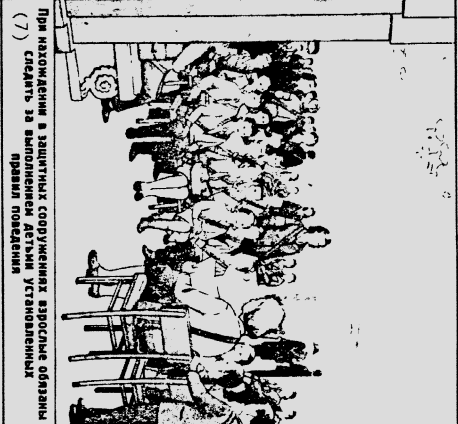
3) Родителям и взрослым членам семьи должны разъяснить детям правила пользования средствами индивидуальной защиты



4) При заучивании упражнений следует дать для детей продукты питания, сырма и необходимые документы



5) По сигналам "Должна тревога", "Радиационная опасность" и "Химическая тревога" взрослые должны направлять детей в специально оборудованные убежища



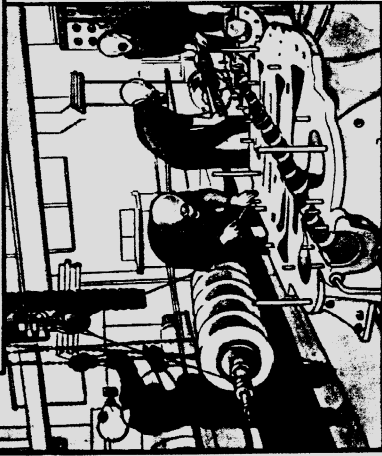
7) При нахождении в защитных сооружениях взрослые обязаны следить за выполнением детьми установленных правил поведения



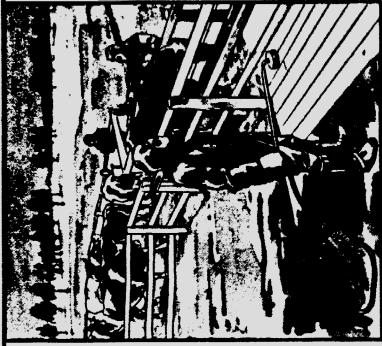
8) При проведении специальных работ жилищной помощи детям и их родителям на время операции необходимо в первую очередь

ДЕЛЫ ВОЕНАРУДНЫЕ

(2) Гражданская оборона как система общесоюзных оборонных мероприятий, проводимых для защиты населения и народного хозяйства от современного оружия противника, является делом каждого гражданина СССР.



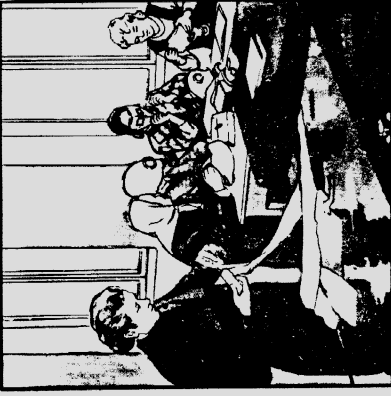
(3) Практическое занятие по гражданской обороне на промышленном объекте



(4) Ветеринарная обработка животных во время учений по гражданской обороне в сельской местности



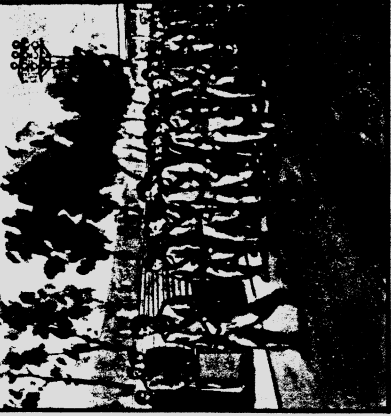
Обучение детей в школе правилам поведения средствами индивидуальной защиты



(7) Занятия по гражданской обороне по месту жительства



Совместное учение личного состава воинских подразделений и невоенизированных формирований гражданской обороны



Смотр невоенизированных формирований гражданской обороны

(19)

(1)

«Всякая революция выливается тогда чего-нибудь стоит, если она умеет защищаться...»

В. И. Ленин

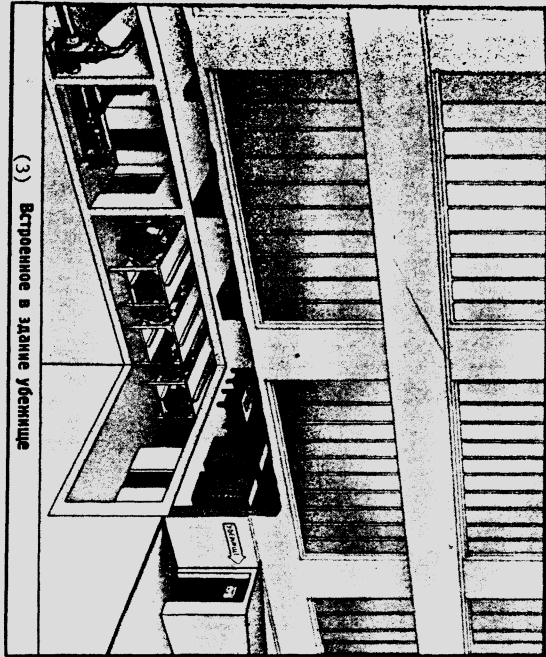


(6) Вооруженные Силы СССР — страж мирного труда советского народа и оплот всеобщего мира

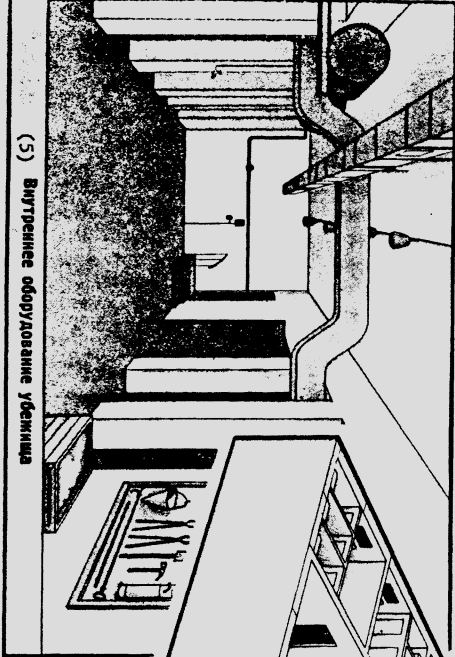
ИЗДАТЕЛЬСТВО «ДЕТСКАЯ ПРЕССА» МОСКВА

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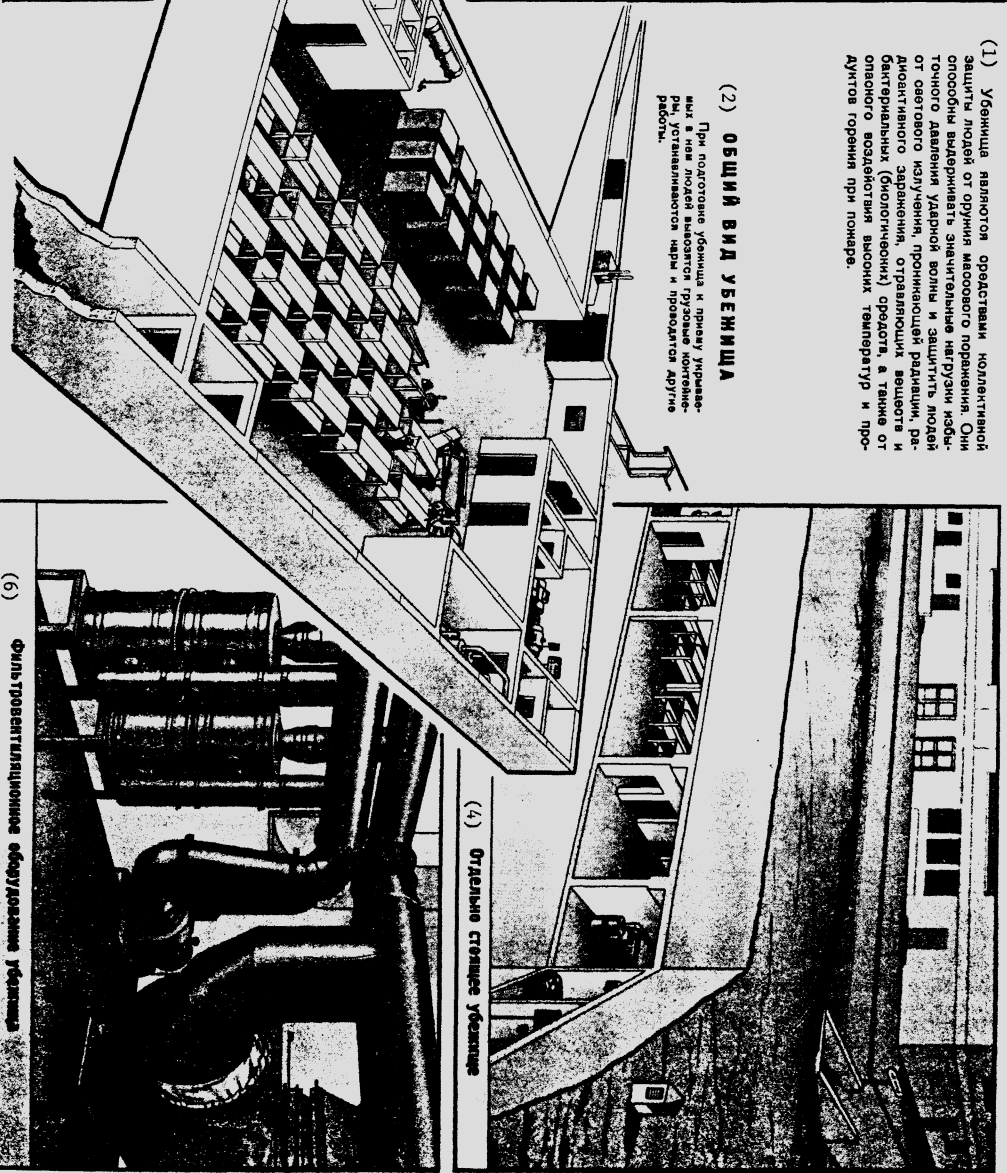
У Б Е Ж И Щ А



(3) Встроенное в здание убежище



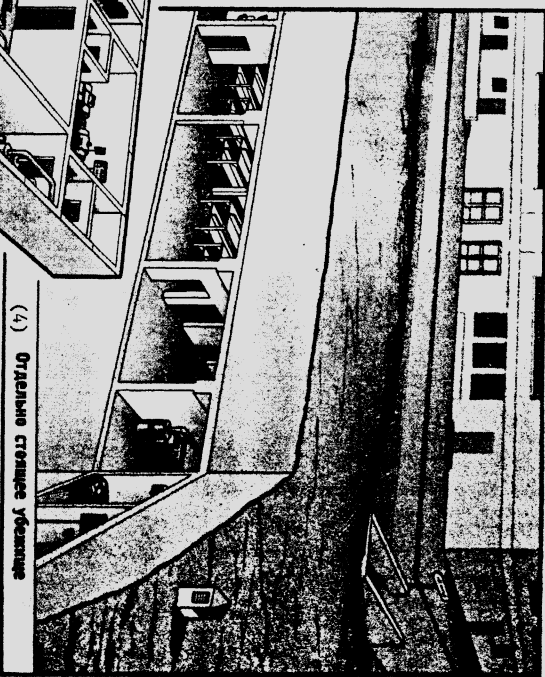
(5) Внутреннее оборудование убежища



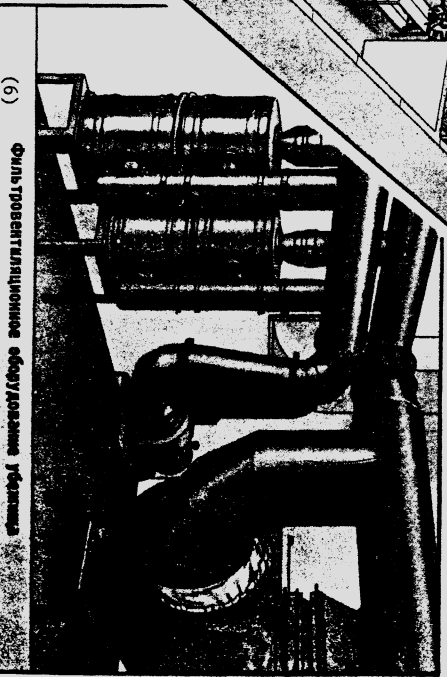
(2) ОБЩИЙ ВИД УБЕЖИЩА

При подготовке убежища к приему укрываемых там людей выполняются следующие основные работы: канализация, настилы, проводка и др.

(1) Убежища являются средствами коллективной защиты людей от оружия массового поражения. Они способны выдерживать значительные нагрузки, избыточного давления ударной волны и защищать людей от ожегового излучения, проникающей радиации, радиоактивного заражения, отравляющих веществ и биологических (биологических) средств, а также от оптического воздействия высокой температуры и прорыва горячих газов при пожаре.



(4) Отдельное строение убежища



(6) Фильтрационные и вентиляционные системы убежища

Убежища являются средствами коллективной защиты людей от оружия массового поражения. Они способны выдерживать значительные нагрузки, избыточного давления ударной волны и защищать людей от ожегового излучения, проникающей радиации, радиоактивного заражения, отравляющих веществ и биологических (биологических) средств, а также от оптического воздействия высокой температуры и прорыва горячих газов при пожаре.