

form of starvation. Nuclear risk is created by man it and it is man that could reduce it but it needs realization and awareness at larger scale. It is not an impossible thing to for man to change this nuclear danger with something else as "the only thing impossible thing is what you don't try."

α ————— α ————— α ————— α

26 - OCT - 2023

By increasing socio-economic and socio-political ^{ties} among different state can also reduce the threat of nuclearization. As most of the conflicts are territorial therefore, proliferation also increase. If these conflicts are resolve by international organization and than their socio-economic and socio-political ties enhance and threat of nuclearization and it proliferation reduce. Hence, ~~increasing~~ enhancing such initiative can reduce nuclear threat to peace of world.

Considering all this, it is clear that nuclear weapons presence on earth means presence of death angel, upon all form of life, all times. The danger that nuclear weapons contains is far ahead the benefit of detemence they create against wars. The whole world could be Vanished by nuclear war either by war casualties or by the outcomes of this war is The

alert should ~~be~~ removed. Then The treaty on the Non-Proliferation of Nuclear weapon (NPT), the treaty Banning nuclear Weapon test in the atmosphere, in outer space and under water and Comprehensive Nuclear Test Ban treaty (CTBT) by itself will not eliminate any nuclear weapon but ~~legally and politically~~ provides help to further delegitimize nuclear weapons.

To reduce nuclear risk, role of media is important to portray its real time threat to the whole world. Public should aware of the danger they are living all the time. All media platforms should highlight the analytical views of nuclear risk that earth is face and its ~~in~~ direct and indirect impact on the peace of whole world. Real time threats and alternative results due to nuclear explosives should be debated on media platforms. By these debates and awareness public will be able to put pressure on their leader to lessen the nuclear risk for the sake of not only their future but also for next generation. Therefore role of media is very crucial in this regard.

Sincere efforts regard this problem. Nowadays, politicians don't seem to understand the danger of war. But ~~politician~~ politician in 1980s seems to recognized the problem and did things about it. The American President Ronald Reagan said then, "A great many reputable scientists are telling us such a war could ~~just~~ just end up in no victory for anyone because we would wipe out the earth as we know it." At that time Soviet Union and United States signed treaty on measures for the further reduction and limitation of strategic offensive arms. Today's leaders show aggressive policies and treaties are not followed at their true spirit.

International level efforts are required to counter nuclear risk and restore world peace. There are multiple treaties present to solve this problem but real problem is in lack of implementation of these treaties. International Organization especially United Nation should pressurize the nuclear states for limitation and reduction of weapon of mass destruction and those nukes which are at high alt

facilitates and resultantly number of nuclear weapon and nuclear states increasingly and will increase. if no serious measures are taken.

History is attestent that most of the war happened are due to territorial conflicts. There are still many unresolved territorial conflicts present between different states. Some of these conflicts make the borders of both side unsafe due to small clashes. These clashes not convert into full-scale war due to nuclear deterrence. Kashmir conflict between two nuclear powers India and Pakistan, Nagorno-Karabakh conflict between Azerbaijan and Armenia and Israel-Palestine conflict are some hot territorial issues. These conflict could lead to war if nuclear weapon are completely disposed and many other small wars could broke out.

Whatever reason of a containing nuclear weapon is given, it is not justifiable because nuclear weapons has the capacity to destroy all sort of life form on planet earth. To minimize the nuclear risk, The main role is of the global leaders to perform collective and

nuclear weapon for to enhance their defence capabilities.

Every state knows the power nuclear weapon contains. These weapons also ^{impact} change the global standings of a nation. It is such a power

that no nuclear state is ready to give up. After World War Second, world not witnessed any other such dreadful war is also happened due to nuclear weapon deterrence.

The first use of nuclear weapon on 06 August and 09 August, 1945 on two cities of Japan by United States killed millions of people not only caused deterrence against another world war, but also make United States a super power. There are dozens of international treaties on de-escalation and disarmament, of nuclear weapon either are not ratified by nuclear states or are not followed properly.

United Nations passed many resolution for disarmament but no use. There is no much efforts taken by Superpowers to reduce nuclear

As Russian parliament retaliated Comprehensive Test Ban Treaty (CTBT) on, 18 Oct, 2023. Russia also has acted contrary to the Nuclear Forces Treaty, the New Strategic Arms Reduction Treaty and Open Skies treaty. They are also part of permanent member of United Nation Security Council (UNSC). So there is no international barrier to contain these super powers,

Another very important reason of increasing nuclear weapons is because it is a tool of deterrence against war. Due to its destructive powers and threat of ^{its} use against one their own state, no country show ^{aggression} against their rival nations. Before nuclear weapon, wars were fought by conventional methods. So, countries which had large army and weapons, attacked smaller and weaker nations easily but number of wars reduced after introduction of nuclear weapons. Deterrence between India and Pakistan is a good example as both nations already fought three wars after independence in 1947 and tension on borders always remains but after ^{both} being nuclear powers threat of full-fledged war reduces. Therefore, nuclear weapons are considered as a tool to create deterrence so, every nation wants to have

to making state laws related to safety of nuclear weapon both from proliferation and non state actors. But increasing number of ~~state~~ non state actor is a serious threat that they could get a ~~ho~~ chance to hold over nuclear weapons and its result can be too serious to think of. A recent example of such attempt was by Weyners on June, 2023. According to Reuters news agency, rebellious Weyners force drove toward Moscow in the direction of a Russian army base that holds nuclear weapon, according to videos posted online and interviews with local residents. Even though ~~this~~ is not ~~happend~~ such thing happen^{yet} but it is a serious threat to the world peace.

Despite its serious consequences to peace of earth, number of nuclear weapon are increasing day by day due to many different reasons but one of them is war of superpowers to become hegemon of the world. This is especially between Russia that is number one in line of nuclear weapon and United State that stand at second. None of these stand at a point to disarmaments of nuclear weapon.

both nuclear powers - Russia and United States - toward nuclear war. World may not be lucky like if such misunderstanding arise in the future. A nuclear war between two states can affect the whole world. According to Ira Helzand, a member of the Nobel peace prize winning International Physicians for prevention of nuclear war, two-three billion people would die, after a war between India and Pakistan, of starvation. It's not the problem of two states in war but whole world is at the verge of destruction due to the presence of nuclear weapons any-where in the world.

Another major challenge to the global peace is ~~is~~ threat related to weapon of mass destruction is threat of nuclear weapons end in the hand of non-state actors for example terrorists and other extremist. These third-party are not threaten by nuclear deterrence and as they are not state and their political ideology is tend to more radical making them more likely to engage toward nuclear terrorism than state actors. Even though, there is a resolution passed by United Nation Security Council (UNSC), 2004 related

not decreasing but increasing day by day. Either in the form of raw material or nuclear reactor its production ~~increase~~ and exportation also increase. In 2021, total trade of nuclear reactor was \$4.01B in which Russia topped the list by \$1.04B export followed by Sweden, France, Germany and USA. The top importers were France, Ukraine, Pakistan, China, and Belarus. Nuclear reactors are parts of machinery, mechanical parts and also include many other work. These reactors are also used for nuclear weapon development. Its export ~~increase~~ grew 17.3% from 2020 to 2021. It shows serious concern of increasing number of nuclear weapon.

Devastation and destruction by a nuclear weapon is an open secret for all. A minute misunderstanding or a small conflict could lead to world war three due to nuclear weapon. World is at the edge of nuclear war as it need a small blow either a mishap or a maniac ~~politician~~ politician to inflict it and once it begins there is no way to stop the disaster. A misunderstand like Cuban missile crisis, 1962 ~~may~~ ^{could} lead the

and North Korea; and Dr. Abdul Qadeer Khan as its head. If such type of proliferation cases happen, the number of nuclear states also increase that not seems a good sign toward peace process.

Not only nuclear weapon but also disposal of nuclear ~~weapon~~ waste material is a serious ~~threat~~ challenge. It contains radioactive material that can have drastically bad effects on life, causing cancerous growth, for instance, or causing genetic problems for many generation of animals and plants. This waste material is disposed in the steel cylinder and then placed in the soil. The threat of leaching of radioactive material always remains as this material is not decomposed. According to U.S Nuclear regulatory Commission, the United States does not currently have a permanent disposal facility for high-level nuclear waste (Nuclear explained, eia.gov, Nov, 2022). So the case with other nuclear state where high-level nuclear waste facilities are not proper. It cause serious concern not only to this generation but also future generation as radioactive material can last thousands of year.

Despite serious risk to the peace of world, production and exportation of nuclear

of nuclear threat that is ~~whole~~ whole world is facing right now.

Another important and grave ~~problem~~ threat that world peace is facing is increasing nuclear proliferation risk from nuclear state to non-nuclear state. As number of nuclear states increase ^{the} threat of nuclear war also increase. ~~Every state wants~~ Most of the states want to develop ~~to~~ ^{for} become nuclear power and ask ^{for} the assistance from their friendly nuclear states due to which Nuclear non-proliferation treaty (NPT) developed in 1970. ~~that~~ Its artical one discourages any assistance of nukes to non-nuclear states from any nuclear state. But nuclear states like Pakistan, India, Israel, ~~Nor~~ and North Korea are not signatory of this treaty. A case of proliferation was arise in 2003 when Bush administration shared intelligence with Musharraz administration that sample of nukes like Pakistan was discovered in Iran by International Atomic Energy Agency alleged Pakistan sold nuclear technology to Iran, Lebanon

by Russia with 13,000 nuclear weapon and after that USA with 9,000 nukes and remaining 1,000 nuclear weapon containing by other States. Out of these nuclear weapon 7,000 are operationally deployed and 2,000 nukes of USA and Russia are at high alert.

(Professor Gareth was Co-Chairperson of International Commission of Nuclear non-proliferation and disarmament) It shows that threat of nuclear war is at the doorstep of any state. It causes serious threat challenge to the global peace.

With advancement of technology, more powerful nuclear weapon are formed that are capable to destroying the life on planet. Now nukes are more advance, fast, automated and more accurate to hit its target. With this advancement of weapons, the threat of ^{war} also increase that challenge the peace of whole world. Enola Gay An airplane named as Enola Gay, carried one atomic bomb power of 15,000 tons of TNT, dropped on Hiroshima, Japan killed hundred thousand people. ^{Now} 5,00,000 people would die with a smallest bomb carried on a Trident missile submarine. It shows the severity (Atmospheric scientist Brain Toon)

Power ready to give up their nuclear weapon as many small and large-scale war could break out due to deminishing of nuclear weapon as they cause deterrence against war. Nuclear weapons, no doubt, are serious threat to peace everywhere. Therefore, collective efforts should be taken. International laws and treaties should be made and followed in their true spirit. Engaging the public and the media platforms will be fruitful for spreading awareness ~~against nuclear weapons~~ about nuclear risk. People should aware the threat of ~~war~~ nuclear war is a real time challenge to peace everywhere in the world. Even though, nuclear weapons cause deterrence against war, ~~but a small~~ ^{but} ~~to one~~ wrong decision or mishap could result into deadly nuclear war. Therefore, the world need to be more rational about overcoming nuclear risk.

~~At~~ Nuclear risk is one of the most critical and challenging problem of 21st century that is inherent from previous century. First nuclear weapon was invented by America on 16 July 1942. After that other states also started develop nuclear weapons to enhance their defence capabilities. There are nine nuclear states right now with almost 23,000 war heads leading

Essay

Nuclear risk is one of most critical and challenging problems of 21st century that is inherited from previous century.

Sixty six million year ago, a big and fast asteroid hit the earth. This fireball vaporized rock and water rose far above the earth's atmosphere and re-entered like shooting stars and heated upper atmosphere. Standing at the ground, the dinosaurs saw the blue sky turned into red-hot lava. They broiled to death under the glowing sky like other seventy percent of species did. Unfortunately, human may experience same fate as dinosaurs, not by another asteroid collision but by a nuclear war. As nuclear weapons has ability to destroy the life on earth but number of nuclear weapon increasing day by day. Proliferation of weapons and poor handling of nuclear waste are also threat to life on earth. A small conflict could lead to world war. Not only this but if a nuclear weapon end in the hands of extremists, it could cause serious threat to the peace of whole world. Even though, its serious consequences, number of nukes increasing day by day as superpowers of world want to enhance their power capabilities, ^{and} to produce deterrence against war. No nuclear

4. Despite its serious consequences to peace of earth, why nuclear risk increasing day by day?

- War of superpowers to become hegemon of the world
- A good tool to create deterrence especially for small nations against big powers
- No nuclear power ready to give up nuclear weapons
- No world war three due to nuclear weapon deterrence
- Many small wars could break out if nuclear weapon disposed completely

5. What measures should be taken to reduce the ^{nuclear} risk to world peace

- Collective efforts of world leaders to dispose nuclear weapon ^{would} be effective
- ~~Non-proliferation~~ ^{International} treaties should be followed in its true spirit
- Role of media to portray the real threat of nuclear weapon to the world is important
- Increase socio-economic and socio-political ties among nation can play important role to reduce nuclear risk

6. Conclusion

(1)

Oct-11-2023

Nuclear risk anywhere is a challenge to peace everywhere

OUTLINE

1. Introduction

Threat of nuclear war is a real time challenge to peace everywhere in the world. Even though nuclear weapon cause deterrence against war, but a small conflict could result in deadly nuclear war. Therefore, world need to become more rational about overcoming nuclear risk.

2. What nuclear risk world is facing

3. How nuclear risk anywhere is a challenge to peace everywhere

- a) Nuclear weapons are capable of destroying life on planet
- b) Increasing nuclear proliferation risk is a threat to peace everywhere
- c) Problems in disposal of nuclear waste material
- d) Nonstop production and exportation of nuclear weapon
- e) A small conflict could led to world war three
- f) Threat of nuclear weapon ^{to} end in the hands of non state actors