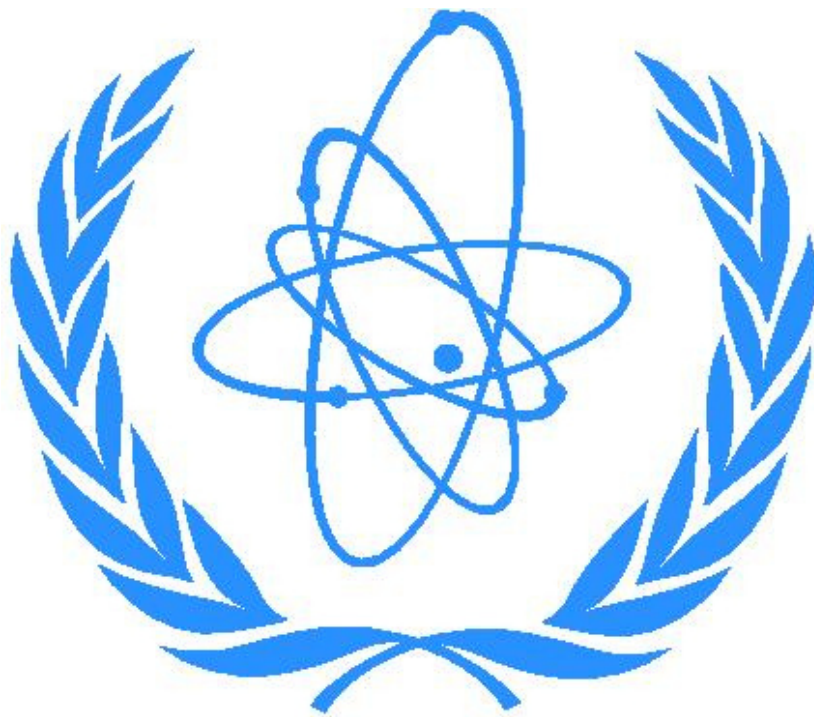




International Atomic Energy Agency (IAEA)

Background Guide

On the Question of Enforcement and Relevance of Nuclear Treaties



MIT Model United Nations Conference (MITMUNC) II
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The two main Nuclear treaties that are in force today are the NPT and the CTBT.

This agenda aims to explore the relevance and effectiveness of these treaties and seeks to determine how they can be better enforced and implemented to promote nuclear non-proliferation. Let us first briefly look at the framework of these treaties.

NPT

Date of adoption: 12 June 1968

Place of adoption: United Nations, New York

Date of entry into force: 5 March 1970

Depositary governments: Russian Federation, United Kingdom, United States

1. What is the NPT?

The NPT aims to prevent the spread of nuclear weapons and weapons technology, to foster the peaceful uses of nuclear energy, and to further the goal of disarmament. The Treaty establishes a safeguards system under the responsibility of the IAEA, which also plays a central role under the Treaty in areas of technology transfer for peaceful purposes.

2. IAEA and the NPT

Three decades after its entry into force in 1970, the Treaty on the Non-Proliferation of Nuclear Weapons (NPT) has nearly 190 States as Parties. Parties are preparing for the next conference, in 2005, to review the Treaty's implementation. Such Review Conferences have been held at five-year intervals since 1975, when the first one was convened in Geneva.

The IAEA is not a party to the Treaty but is entrusted with key roles and responsibilities under it. Under the NPT, the IAEA has specific roles as the international safeguards inspectorate and as a multilateral channel for transferring peaceful applications of nuclear technology:

NPT Article III: The IAEA administers international safeguards to verify that non-nuclear weapon States party to the NPT fulfill the non-proliferation commitment they have made, "with

a view to preventing diversion of nuclear energy from peaceful uses to nuclear weapons or other nuclear explosive devices."

NPT Article IV: The Agency facilitates and provides a channel for endeavours aimed at "the further development of the applications of nuclear energy for peaceful purposes, especially in the territories of non-nuclear-weapon States Party to the Treaty, with due consideration for the needs of the developing areas of the world."

In practical terms, the IAEA also is seen as having roles in connection with verification of nuclear-weapon-free zones and in the context of verifying ex-nuclear weapon material.

3. Problems faced in the implementation of the NPT

Several nations have either outright refused to sign and ratify the NPT or withdrawn from it after failure to meet its terms. The IAEA plays a key role in enforcing the NPT. Delegate, you are entrusted with the task of finding a way for the Agency to implement the treaty. While looking for solutions, keep in mind not only the best interests of both your own nation but also the international community at large.

3.1. India, Israel and Pakistan

Three states—India, Israel, and Pakistan—have declined to sign the treaty. India and Pakistan are confirmed nuclear powers, and Israel has a long-standing policy of deliberate ambiguity. These countries argue that the NPT creates a club of "nuclear haves" and a larger group of "nuclear have-nots" by restricting the legal possession of nuclear weapons to those states that tested them before 1967, but the treaty never explains on what ethical grounds such a distinction is valid.

India and Pakistan have publicly announced possession of nuclear weapons and have detonated nuclear devices in tests, India having first done so in 1974 and Pakistan following suit in 1998 in response to another Indian test. India is estimated to have enough fissile material for more than 150 warheads. Pakistan reportedly has between 80 and 120 warheads according to the former head

of its strategic arms division. India is one of the few countries to have a no first use policy, a pledge not to use nuclear weapons unless first attacked by an adversary using nuclear weapons. The main reason India cites for not signing the NPT and for possessing nuclear weapons is that China is one of the “nuclear haves.” India’s External Affairs Minister Pranab Mukherjee said during a visit to Tokyo in 2007: “If India did not sign the NPT, it is not because of its lack of commitment for non-proliferation, but because we consider NPT as a flawed treaty and it did not recognise the need for universal, non-discriminatory verification and treatment.” China and India have a longstanding border dispute, including a border war in 1962.

According to leaked intelligence, Israel has been developing nuclear weapons at its Dimona site in the Negev since 1958, and many nonproliferation analysts like David Albright estimate that Israel may have stockpiled between 100 to 200 warheads using the plutonium reprocessed from Dimona. The Israeli government refuses to confirm or deny possession of nuclear weapons, although this is now regarded as an open secret after Israeli low level nuclear technician Mordechai Vanunu—later abducted and jailed by Israel—revealed the program to the British Sunday Times in 1986.

In early March 2006, India and the United States finalized a deal, having critics in both countries, to provide India with US civilian nuclear technology. Under the deal India has committed to classify 14 of its 22 nuclear power plants as being for civilian use and to place them under IAEA safeguards. Mohamed ElBaradei, the former Director General of the IAEA, welcomed the deal by calling India “an important partner in the non-proliferation regime.”

3.2. North Korea (DPRK)

North Korea ratified the treaty on December 12, 1985, but gave notice of withdrawal from the treaty on January 10, 2003 following U.S. allegations that it had started an illegal enriched uranium weapons program, and the U.S. subsequently stopping fuel oil shipments under the Agreed Framework which had resolved plutonium weapons issues in 1994. The withdrawal became

effective April 10, 2003 making North Korea the first state ever to withdraw from the treaty. North Korea had once before announced withdrawal, on March 12, 1993, but suspended that notice before it came into effect.

In 2007, reports from Washington suggested that the 2002 CIA reports stating that North Korea was developing an enriched uranium weapons program, which led to North Korea leaving the NPT, had overstated or misread the intelligence. On the other hand, even apart from these press allegations—which some critics worry could have been planted in order to justify the United States giving up trying to verify the dismantlement of Pyongyang’s uranium program in the face of North Korean intransigence—there remains some information in the public record indicating the existence of a uranium effort. Quite apart from the fact that North Korean First Vice Minister Kang Sok Ju at one point admitted the existence of a uranium enrichment program, Pakistan’s then-President Musharraf revealed that the A.Q. Khan proliferation network had provided North Korea with a number of gas centrifuges designed for uranium enrichment. Additionally, press reports have cited U.S. officials to the effect that evidence obtained in dismantling Libya’s WMD programs points toward North Korea as the source for Libya’s uranium hexafluoride (UF₆) -- which, if true, would mean that North Korea has a uranium conversion facility for producing feedstock for centrifuge enrichment.

3.3. Iran

Iran is a party to the NPT, but was found in non-compliance with its NPT safeguards agreement and the status of its nuclear program remains in dispute. In November 2003 former IAEA Director General Mohamed ElBaradei reported that Iran had repeatedly and over an extended period failed to meet its safeguards obligations, including by failing to declare its uranium enrichment program. After about two years of EU3-led diplomatic efforts and Iran temporarily suspending its enrichment program, the IAEA Board of Governors, acting under Article XII.C of the IAEA Statute, found in a rare non-consensus decision with 12 abstentions that these failures consti-

tuted non-compliance with the IAEA safeguards agreement. This was reported to the UN Security Council in 2006, after which the Security Council passed a resolution demanding that Iran suspend its enrichment. Instead, Iran resumed its enrichment program.

Iran states it has a legal right to enrich uranium for peaceful purposes under the NPT, and further says that it “has constantly complied with its obligations under the NPT and the Statute of the International Atomic Energy Agency”. Iran also states that its enrichment program is part of its civilian nuclear energy program, which is allowed under Article IV of the NPT. The Non-Aligned Movement has welcomed the continuing cooperation of Iran with the IAEA and reaffirmed Iran’s right to the peaceful uses of nuclear technology. UN Secretary General Ban Ki-moon has welcomed the continued dialogue between Iran and the IAEA, and has called for a peaceful resolution to the issue.

4. 2010 NPT Review Conference

Ever since the NPT came into force, it has been reviewed periodically at five year intervals. The NPT review conference in 2010 aims to address the problems of non adherence to the treaty and the existence of covert nuclear programs. Delegates are encouraged to go through the links provided at the end of this guide to learn more about the plans for this review conference in 2010. Knowledge of the specifics will stand the reader in good stead.

The other important nuclear treaty is the CTBT.

CTBT

The Comprehensive Test Ban Treaty (CTBT)—described as the “longest sought and hardest fought for arms control treaty in history”—was opened for signature in September 1996. The CTBT obligates countries that sign and ratify “not to carry out any nuclear weapon test explosion or any other nuclear explosion.” It provides for an extensive verification regime including an International Monitoring System (IMS) to detect nuclear explosions, a global infrastructure for satellite commu-

nications from IMS stations to an International Data Center (IDC) that processes and distributes data to State Parties, and for on-site inspections, which may be requested by any State Party to determine whether suspected cheating has occurred. To implement these verification arrangements, the treaty establishes a Comprehensive Test Ban Organization (CTBTO) located in Vienna.

5. Why is the CTBT important?

The CTBT has been seen as an essential step toward nuclear disarmament for over four decades. It bans all nuclear tests, anytime, anywhere and comprehensively. Without the CTBT, the United States, Russia, China, France, the United Kingdom, India, and Pakistan are not prohibited from conducting further underground test explosions. The effort to establish an international norm against nuclear testing must not be abandoned after the enormous effort on the part of governments and NGOs, especially when the ratifications of only thirteen states is required for Entry-Into-Force.

The Treaty is intended to stop the qualitative nuclear arms race. The CTBT does not prohibit research on nuclear weapons, including subcritical tests. But it is very difficult, if not impossible, to develop new nuclear weapons without nuclear test explosions. This explains why all Nuclear Weapons States have resisted such a treaty for over four decades. Now that an agreement on the test ban has been reached and Entry-Into-Force is within reach, the effort to establish an international norm against nuclear testing must be actively pursued. Should the CTBT not enter into force, all the enormous effort on the part of governments and NGOs would be lost.

The CTBT will prevent further horrendous health and environmental damage caused by nuclear test explosions once and for all.

The CTBTO (the organization of the CTBT and the Secretariat of the Conferences) is already making great strides to establish a wide-ranging monitoring and verification system, including an International Monitoring System and an International Data Centre, which together with national technical means and ten of thousands of civilian

monitoring stations, will detect and deter would-be testers, and therefore, will build confidence between all nations that nuclear testing has stopped.

6. US ratification of the CTBT

The United States of America has the largest stockpile of nuclear weapons but has yet to ratify the CTBT. There is ongoing debate whether or not the US should ratify the CTBT.

The CTBT for the United States is conditioned on:

A: The conduct of a Science Based Stockpile Stewardship Program program to ensure a high level of confidence in the safety and reliability of nuclear weapons in the active stockpile, including the conduct of a broad range of effective and continuing experimental programs.

B: The maintenance of modern nuclear laboratory facilities and programs in theoretical and exploratory nuclear technology which will attract, retain, and ensure the continued application of our human scientific resources to those programs on which continued progress in nuclear technology depends.

C: The maintenance of the basic capability to resume nuclear test activities prohibited by the CTBT should the United States cease to be bound to adhere to this treaty.

D: Continuation of a comprehensive research and development program to improve our treaty monitoring capabilities and operations.

E: The continuing development of a broad range of intelligence gathering and analytical capabilities and operations to ensure accurate and comprehensive information on worldwide nuclear arsenals, nuclear weapons development programs, and related nuclear programs.

F: The understanding that if the President of the United States is informed by the Secretary of Defense and the Secretary of Energy (DOE) -- advised by the Nuclear Weapons Council, the Direc-

tors of DOE's nuclear weapons laboratories and the Commander of the U.S. Strategic Command -- that a high level of confidence in the safety or reliability of a nuclear weapon type which the two Secretaries consider to be critical to our nuclear deterrent could no longer be certified, the President, in consultation with Congress, would be prepared to withdraw from the CTBT under the standard "supreme national interests" clause in order to conduct whatever testing might be required.

Proponents of ratification claim that it would:

1. Establish an international norm that would push other nuclear-capable countries like North Korea, Pakistan, and India to sign.

2. Constrain worldwide nuclear proliferation by vastly limiting a country's ability to make nuclear advancements that only testing can ensure.

3. Not compromise US national security because the Science Based Stockpile Stewardship Program serves as a means for maintaining current US nuclear capabilities without physical detonation.

On 13 October 1999, the United States Senate rejected ratification of the CTBT. President Barack Obama stated during his 2008 election campaign that "As president, I will reach out to the Senate to secure the ratification of the CTBT at the earliest practical date."

7. Monitoring of the CTBT

Geophysical and other technologies are used to monitor for compliance with the Treaty: seismology, hydroacoustics, infrasound, and radionuclide monitoring. The technologies are used to monitor the underground, the waters and the atmosphere for any sign of a nuclear explosion. Statistical theories and methods are integral to CTBT monitoring providing confidence in verification analysis. Once the Treaty enters into force, on site inspection will be provided for where concerns about compliance arise.

The Preparatory Commission for the Comprehensive Test Ban Treaty Organization (CTBTO), an international organization headquartered in Vienna, Austria, was created to build the verification

regime, including establishment and provisional operation of the network of monitoring stations, the creation of an international data centre, and development of the On Site Inspection capability. The monitoring network consists of 337 facilities located all over the globe. As of September 2009, close to 250 facilities have been certified. The monitoring stations register data that is transmitted to the international data centre in Vienna for processing and analysis. The data is sent to states that have signed the Treaty.

review conference: http://www.armscontrol.org/act/2009_6/Johnson and <http://www.acronym.org.uk/dd/dd91/91npt.htm>

- NTI brief CTBT: http://www.nti.org/e_research/e3_9a.html

- USA and the CTBT: http://www.nti.org/e_research/e3_ctbt_united_states.html

8. Questions to Consider

- Has your nation signed and ratified both the CTBT and the NPT? If not, why?
- Does your nation believe that both these treaties are just? If not, why?
- What contributions has your nation made towards the cause of nuclear non-proliferation?
- Has your country ever conducted a nuclear explosion? If yes, why?
- What does your country wish to accomplish at the 2010 NPT review conference?
- Does your nation believe that the an arms race could be prevented in the absence of these treaties?
- What can your nation do to assist the IAEA and the UN in the implementation and enforcement of these treaties?
- Do you believe that your country would benefit if the CTBT came into force?
- Does your country wish to add to or amend either of the treaties?

9. References and Links

- Legal Framework: <http://www.iaea.org/OurWork/SV/Safeguards/legal.html>
- NPT (wikipedia): http://en.wikipedia.org/wiki/Nuclear_Non-Proliferation_Treaty
- NPT Text and review conferences: <http://www.reachingcriticalwill.org/legal/npt/nptindex1.html>
- Laying the ground for the 2010