Strategic Arms Control After START: Issues and Options

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Summary

The United States and Soviet Union signed the Strategic Arms Reduction Treaty in 1991; it entered into force in December 1994 and is due to expire in December 2009. The United States and Russia have held several meetings to discuss options for continuing their arms control relationship. They are currently negotiating a new Treaty that would replace START.

START counts each deployed ICBM, SLBM, bomber as a single delivery vehicle under the Treaty limit of 1,600 delivery vehicles and attributes an agreed number of warheads to each deployed delivery vehicle. This attribution rule provides the total number of warheads that count under the 6,000 warhead limit in the Treaty. To verify compliance with START, each side monitors the numbers and locations of ballistic missiles, launchers and heavy bombers deployed by the other country. The parties use a wide variety of means to collect information—or monitor—these forces and activities. Some of these monitoring systems, such as overhead satellites, operate outside the territories of the treaty parties. They also have also been required to exchange copious amounts of data on locations, operations, and technical characteristics of the treaty-limited items. This verification regime has allowed the parties to remain confident in each other’s compliance with the Treaty.

The United States and Russia began to discuss their options for arms control after START in mid-2006. During the Bush Administration, they were unable to agree on a path forward. Neither side wants to extend START in its current form, as some of the Treaty’s provisions have begun to interfere with some military programs on both sides. Russia wants to replace START with a new Treaty that would further reduce deployed forces while using many of the same definitions and counting rules in START. The United States initially did not want to negotiate a new treaty, but, under the Bush Administration, would have been willing to extend, informally, some of START’s monitoring provisions. In 2008, the Bush Administration agreed to conclude a new Treaty, with monitoring provisions attached, but this Treaty would resemble the far less formal Strategic Offensive Reductions Treaty that the two sides signed in 2002. In December 2008, the two sides agreed that they wanted to replace START before it expired, but acknowledged that this task would have to be left to negotiations between Russia and the Obama Administration. President Obama and President Medvedev agreed at their meeting on April 2, 2009, to pursue “new and verifiable reductions” in their strategic offensive arms. The two sides are now pursuing negotiations on the new Treaty.

The United States and Russia could choose from a number of options for the future of their arms control relationship. They could allow START to lapse or they could extend START for five years. They could extend START, then amend it to ease some of the outdated provisions. They could negotiate a new Treaty, or they could pursue less formal arrangements to manage their nuclear forces. Moreover, if a new treaty included further reductions in nuclear weapons, it could use some START definitions and counting rules or the less formal Moscow Treaty declarations.

This report will be updated as needed.
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Introduction

The United States and Soviet Union signed the Strategic Arms Reduction Treaty (START) on July 31, 1991. After the demise of the Soviet Union in December 1991, the parties signed a Protocol that named the four former Soviet Republics with nuclear weapons on their territory—Ukraine, Belarus, Kazakhstan, and Russia—parties to the Treaty.\(^1\) START entered into force on December 4, 1994. The Treaty was to remain in force for 15 years, unless replaced by a subsequent agreement, and, therefore, will expire on December 5, 2009.\(^2\) According to Article XVII of the Treaty, the parties must meet “no later than one year” before this date to consider whether the Treaty should be extended or allowed to lapse.\(^3\) If the parties agree to extend the Treaty, the extension would last five years, unless START were replaced by a subsequent agreement during that time.

The United States and Russia held several meetings in the latter years of the Bush Administration to discuss the options for continuing their bilateral arms control relationship after START, but did not reach an agreement on whether to extend START or on how to replace it. The Obama Administration has pledged to resume the discussions, both to extend the monitoring and verification provisions in START and to seek an agreement on further reductions in strategic nuclear weapons. The discussions thus far, along with the statements from Members of Congress and others following the process, reflect not only on the specific issues that may be addressed in a possible follow-on Treaty, but, also on the broader question of what, if any, role arms control should play in future U.S.-Russian relations.

The United States and Soviet Union negotiated START between 1984 and 1991. It contains many detailed definitions and restrictions that not only limit the permitted number of nuclear warheads but also restrain the locations and movement of delivery vehicles carrying nuclear warheads and require extensive exchanges of data about them. Many of these provisions reflect the more competitive relationship between the United States and Soviet Union, and the concerns that drove their inclusion in the Treaty, may no longer seem as important to the U.S.-Russian relationship. Specifically, some in the Bush Administration and the broader foreign policy community have argued that, because the United States no longer structures its nuclear forces in response to a Russian threat, it no longer needs a treaty that restrains and reduces the weapons that make up that threat. They, therefore, question whether the START Treaty, or U.S.-Russian nuclear arms control in general, remain important as tools in the political relationship between the United States and Russia.

Some U.S. critics of arms control have argued that the bilateral arms control process should fade away after START expires. They note that START may have served its purpose by helping to reduce the size of the Russian arsenal after the demise of the Soviet Union and by restraining the

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\(^1\) The leaders in Belarus, Ukraine, and Kazakhstan agreed to eliminate all of the nuclear weapons on their territories and to sign the Nuclear Non-Proliferation Treaty (NPT) as non-nuclear weapons states. These three states have been nuclear free since the late 1990s; all remaining Soviet-era nuclear warheads are deployed in Russia.

\(^2\) The United States and Russia signed the Strategic Offensive Reductions Treaty (also known as the Moscow Treaty) on May 24, 2002. They do not, however, consider this Treaty to be a successor to START. Article II of the Moscow Treaty specifically states that the START Treaty remains in force. See CRS Report RL31448, Nuclear Arms Control: The Strategic Offensive Reductions Treaty, by Amy F. Woolf.

\(^3\) The Parties did not need to make a decision about the future of START in December 2008, they just needed to meet to consider the question.
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permitted operations of the remaining forces, but its reductions have been overtaken by deeper cuts mandated by the Moscow Treaty and the restrictions on Russian forces also serve to restrict the flexibility of U.S. forces. In the current environment, the United States may be better served by maintaining its own freedom of action in deploying and operating its nuclear forces than by retaining START’s or similar restraints on U.S. and Russian forces.

Others, however, argue that START remains relevant to the U.S.-Russian relationship and deserves to be either extended or replaced with a similar treaty. In this view, the predictability created by START’s well-defined restrictions on Russian and U.S. nuclear forces can benefit both countries. Moreover, continuing this cooperation can help to restore some trust in the relationship between the two nations. In addition, some in Russia still feel threatened by U.S. nuclear weapons and continue to value the restraints provided by arms control treaties.

Some Members of Congress have joined this debate, with several endorsing the view that extending START, and its monitoring and verification provisions, will help improve the relationship between the United States and Russia. For example, Senator Richard Lugar has stated that “the current U.S.-Russian relationship is complicated enough without introducing more elements of uncertainty. Failure to preserve the START Treaty would increase the potential for distrust between the two sides.”4 Some also believe, as Senator Lugar has noted, that the “failure to renew START will be seen worldwide as weakening the international nuclear nonproliferation regime and a further sign to many foreign leaders and experts that U.S. nonproliferation policy is adrift.”5

Congress has limited influence on the process of seeking a replacement for START. If the United States and Russia amend START, or negotiate a new treaty to replace it, the Senate will have to provide its advice and consent before the parties ratify the Treaty. However, if the two parties do not reach any agreement and START lapses, or if they choose simply to extend START for five years, according to the provision in Article XVII, the Senate would not have to approve or reject the outcome. Nevertheless, Congress can, through resolutions, hearings, and consultations, offer the Administration its views on the future of the START Treaty and the U.S.-Russian arms control process.

This report provides background information about the START Treaty and reviews the discussions about a possible successor to START. It also presents a range of alternatives that the United States and Russia might consider if they choose to follow START with a new framework for the arms control process.

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The START Treaty

Key Provisions

Central Limits

START limits long-range nuclear-capable delivery systems—land-based intercontinental ballistic missiles (ICBMs), submarine-launched ballistic missiles (SLBMs), and heavy bombers—in the United States and the four states of the former Soviet Union. The Treaty limits both the number of delivery systems and the number of warheads carried on these systems. As Table 1 below indicates, each side can deploy 6,000 “attributed” warheads on no more than 1,600 ballistic missiles and heavy bombers, with no more than 4,900 attributed warheads on land-based and submarine-based ballistic missiles.

| Deployed Strategic Nuclear Delivery Vehicles | 1,600 |
| Heavy ICBMs | 154 |
| Accountable Warheads on Deployed Delivery Vehicles | 6,000 |
| Ballistic Missile Warheads | 4,900 |
| Warheads on Heavy ICBMs | 1,540 |
| Warheads on Mobile ICBMs | 1,100 |
| Total Ballistic Missile Throwweight | 3,600 metric tons\(^a\) |


Within the aggregate limits on ballistic missile warheads, START also limits each side to no more than 1,540 warheads on heavy ICBMs, which are defined as those with a throwweight greater than 4,350 kilograms, and 1,100 warheads on mobile ICBMs. These two limits are an added effort to restrain forces that the United States feared would provide the Soviet Union with an avenue to exceed the warhead limit. The United States had long sought to use the arms control process to limit, or eliminate, the Soviet monopoly on heavy ICBMs because it believed that the Soviet Union could expand the capabilities of these missiles by deploying them with more or higher yield. The United States did not have any ballistic missiles of this size, and had no plans to develop or deploy them. The Soviet Union initially resisted U.S. pressures to limit these missiles, but eventually agreed to halve their force of 304 SS-18 ICBMs, each of which was deployed with 10 warheads, under START.

As the START negotiations proceeded through the 1980s, the United States also grew concerned about the Soviet deployment of ballistic missiles on mobile launchers. The Soviet Union had

\(^6\) The full text of the Treaty and its many annexes is available at the U.S. State Department website: http://www.state.gov/t/ac/trt/18535.htm.
begun to deploy single-warhead SS-25 missiles on road-mobile launchers and 10-warhead SS-24 missiles on rail-mobile launchers. The United States considered these missiles both a military and an arms control problem. Because the United States did not think it could locate and track these missiles all the time, it believed it would be difficult to target them during a conflict. Moreover, because the Soviet Union had large land areas where it could operate and conceal these missiles, U.S. negotiators argued that the United States would not be able to monitor mobile ICBM deployments well enough to count the missiles and verify Soviet compliance with the limits in START.

The United States initially proposed that START ban mobile ICBMs, even though it was considering the possible use of mobile launchers for its new 10-warhead Peacekeeper (MX) ICBM and for a prospective small, single-warhead ICBM. But, after the United States and Soviet Union began to consider options for a monitoring and verification regime that might track the numbers of mobile ICBMs, they agreed to limit, rather than ban, these systems. The limited numbers, when combined with location restrictions, notifications prior to movement, data exchanges that identified the numbers of missiles and warheads based at approved locations, and a continuous monitoring regime outside the final assembly facility for one type of mobile ICBM, would help each side count the number of acknowledged mobile ICBMs and complicate efforts to conceal extra missiles or warheads. Even though the United States eventually dropped its plans to deploy mobile ICBMs, it agreed to apply these limits and restrictions to the Peacekeeper (MX) missiles that were deployed in silos.

START also limits the total amount of throwweight on each side’s ballistic missiles, to an amount equal to around 54% of the amount of throwweight on Soviet missiles before the Treaty entered into force. Throwweight is the combined weight of the post-boost vehicle, warheads, guidance system, penetration aids, and other equipment found on the front end of a missile. It is considered to be a measure of a missile’s destructive capacity because larger missiles with greater throwweight can carry larger or greater numbers of warheads. Hence, this limit was a further effort by the United States to limit the potential for the Soviet Union to add warheads to its missiles in violation of the Treaty’s limits. Because Soviet forces deployed when START was signed carried had than three times as much throwweight as U.S. missiles, the United States did not have to reduce its forces to comply with this limit. However, the United States could have exceeded the limit on throwweight if it had deployed new, larger missiles while START remained in force.

**Counting Rules**

START counts each deployed ICBM and its associated launcher, each deployed SLBM and its associated launcher, and each deployed heavy bomber as a single delivery vehicle under the Treaty limit of 1,600 delivery vehicles. They count regardless of whether they are equipped with nuclear or conventional warheads. They also continue to count under the Treaty limits until the launchers or bombers are eliminated according to the Treaty’s detailed elimination procedures. For example, a bomber, such as the B-1, that has been converted to carry conventional weapons continues to count under the Treaty limits. Moreover, an empty missile launcher, either on land or on a ballistic missile submarine, continues to count as if it still holds a missile and the missile still carries the attributed number of warheads, even if the missile system is deactivated or the launcher is converted to another purpose.
The number of warheads attributed to each type of missile or bomber is listed in an agreed data base.\(^7\) For the most part, the number of warheads attributed to each type of missile equals the maximum number of warheads that the missile had been tested with and could be equipped to carry when the treaty entered into force. In some cases, however, such as for the U.S. Trident II (D-5) missile, the number of warheads attributed to the missile (8) fell below the maximum number the missile could carry (12). The Soviet SS-18 missile had also been tested with 12 or 14 warheads, but the data base counted it as carrying only 10. The parties adopted this formula of counting delivery vehicles and attributing warheads to each type of delivery vehicle, because, although they sought to reduce warheads, they could not monitor the actual numbers of warheads deployed on the delivery vehicles but could identify and count the large delivery vehicles with their monitoring systems.

The number of warheads attributed to heavy bombers falls far below the maximum number that could be carried on those aircraft. Heavy bombers that are not equipped to carry long-range nuclear-armed air-launched cruise missiles (ALCMs)\(^8\)—such as the U.S. B-1 and B-2 bombers—count as only one warhead under the START limits. This number applies even though these bombers can carry at least 16 bombs and short-range missiles. Further, heavy bombers that are equipped to carry ALCMs count as half of the maximum number of weapons they are permitted to carry. START states that U.S. bombers can be equipped to carry up to 20 ALCMs, but they only count as 10 warheads under the Treaty limit of 6,000 warheads. Russian bombers can be equipped to carry up to 16 ALCMs, and count as only 8 warheads under the Treaty limit.

START allows the United States and Soviet Union to reduce the number of warheads attributed to a particular type of ballistic missile through a process known as “downloading.” According to the Treaty, each party can reduce the “attributed number” listed in the data base for up to three types of missiles. If they do this, they must then reduce the number of warheads carried on each missile, and if the number declines by more than 2 warheads, they must replace the platform on the missile that holds the warheads, so that it does not have space for the larger number of missiles. This “downloading” process would allow each country to spread its 4,900 ballistic missile warheads among a greater number of missiles. The countries use short-notice on-site inspections to confirm that the number of warheads actually deployed on a particular missile does not exceed the number of warheads attributed to that type of missile in the data base. The United States has taken advantage of this provision with its Minuteman III and Trident II missiles.

Existing types of missiles cannot be deployed with more warheads than the number attributed to that type of missile in the data base. The number in the data base could only increase if the missile were altered to meet the definition of a “new type” of missile. START bans new types of heavy ICBMs. For smaller missiles, it contains an elaborate definition that is designed to allow the parties to distinguish between modified versions of existing ballistic missiles, which would be subject to the warhead attribution numbers already in the data base, and new types, which would receive a new warhead attribution number. During the negotiations, the parties agreed that the definition would reflect changes in missile characteristics such as the propellant used, the number of stages, its length and diameter, and its throwweight, but they differed on the magnitude of the changes that would define a “new type.” The United States feared that, with smaller changes, the

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\(^7\) The most recent data base exchanged among the parties to the Treaty can be found at U.S. State Department, Bureau of Verification, Compliance, and Implementation. START Aggregate Numbers of Strategic Offensive Arms. http://www.state.gov/t/vci/rls/prsrl/2008/110337.htm.

\(^8\) Long-range nuclear-armed air-launched cruise missiles are those with a range of more than 600 kilometers.
Soviet Union would be able to have a missile that was virtually identical to an existing missile declared a new type with a greater number of warheads, and then might secretly backfit the older version with more warheads, as well. This was one of the last issues resolved in the START negotiations.\footnote{The Soviet Union suggested that a 15% change in throwweight would be enough to distinguish a new type of missile, while the United States wanted a throwweight change of 30% and a change in one other missile characteristic. They eventually agreed to essentially split their differences and defined a new type of missile as one with a 21% change in throwweight and at least a 5% change in the length of the first stage. This would make new types of missiles significantly different from existing types.}

\section*{Collateral Constraints}

START contains detailed definitions of the items and activities limited by the treaty. The parties have also been required to exchange copious amounts of detailed data on the technical characteristics of the treaty-limited items. The Treaty mandates that the parties locate all strategic forces limited by the Treaty at “declared facilities” which include production, assembly, testing, storage, maintenance, deployment, and elimination facilities. It outlines detailed notifications that must be provided and procedures that must be followed when items move from one location to another. It further defines detailed procedures that the countries must follow when they eliminate weapons limited by the Treaty, or close down facilities that had once housed these items. Designed to reduce ambiguities and minimize the opportunities for dispute, these details provide the “foundation” for the Treaty’s verification regime by drawing sharp distinctions between permitted and prohibited forces and activities.

\section*{Monitoring and Verification}

Verification is the process that one country uses to assess whether another country is complying with an arms control agreement. To verify compliance, a country must determine whether the forces and activities of another country are within the bounds established by the limits and obligations in the agreement. Treaty language forms the core of the verification regime: it describes the limits and obligations the countries must observe and allows them to identify the forces and activities that comply with the terms of the Treaty. The identification of compliant activities also helps a country focus on what it should look for when it collects information about the other country’s forces and activities. No verification regime can ensure the detection of all violations, but the START regime is designed to ensure that parties would have a high probability of detecting militarily significant violations.

The parties to a treaty use a wide variety of means to collect information—or monitor—the forces and activities of the other parties. Some of these monitoring systems, such as overhead satellites, operate outside the territories of the treaty parties. But the parties can also cooperate in providing information by exchanging data, displaying treaty-limited items, and allowing on-site inspections. Once they have collected this information, the parties analyze and refine the raw data to help develop a meaningful picture of each other’s forces and activities. They then evaluate the results of the monitoring process, compare the observed forces and activities with the expected forces and activities, and determine whether the other party has complied with its obligations under the terms of the Treaty.
To verify compliance with START, each side monitors the numbers and locations of ballistic missiles, launchers and heavy bombers deployed by the other country. To achieve this goal, the countries have had to

- establish the number and location of deployed and stored ballistic missiles and deployed bombers when the Treaty entered into force;
- confirm the technical characteristics of existing types of weapons and establish the measurements for new types of weapons;
- add the number of ballistic missiles and heavy bombers deployed after the treaty entered into force;
- subtract the number of ballistic missiles and heavy bombers eliminated, according to treaty rules, during the life of the treaty;
- track treaty-limited items when they move between declared facilities;
- monitor the armament on permitted systems, to confirm that missiles and bombers are deployed with the numbers and types of warheads permitted by the START data base; and
- monitor ballistic missile flight tests to determine the characteristics of different types of ballistic missiles.

START contains a complex verification regime that is designed to allow the parties to achieve these objectives. Both sides use their own satellites and remote sensing equipment—their National Technical Means of Verification (NTM)—to gather the vast majority of the information each needs to monitor the other country’s forces and activities and to determine whether the other country has complied with the limits in START. But the Treaty also contains a number of specific verification provisions that are designed to help the parties gather and confirm the needed information. For example, it bans measures that would interfere with the parties’ ability to collect information with their NTM, and requires that they use data exchanges, notifications, and on-site inspections to gather information about forces and activities limited by the Treaty. These measures do not replace monitoring with NTM, but they can add detail to information collected by NTM, enhance a country’s confidence in the meaning and reliability of the information, and help deter violations. The Treaty also established the Joint Compliance and Inspection Commission (JCIC), where the parties meet to discuss treaty implementation issues and compliance questions.

Access Measures

START contains several verification measures that allow the countries’ NTM to gain access to information about the other country’s treaty-limited forces. These measures include a ban on interference with NTM—for example, the parties cannot interfere with the launch or operation of the other side’s satellites—and a requirement that they broadcast telemetry, the technical data generated during missile flight tests over open channels. START also bans efforts to conceal forces and activities from NTM and mandates that the parties display treaty limited items under certain circumstances, so that NTM can confirm their locations and some characteristics.

The ban on data denial during missile flight tests was a particularly important feature of START for the United States. Each nation transmits data, known as telemetry, during its flight tests of ballistic missiles. Even without START, each nation monitored the other’s missile flight tests to
gain information about characteristics such as missile throwweight, launch weight, and the number of reentry vehicles releases tested during the flight. The nations could deny each other access to this data by encrypting it and transmitting it in coded form, recording it during the flight and storing it aboard the missile for recovery after the test, or by jamming and otherwise interfering with the other side’s receiving instruments. Because the United States believed that this information would be critical to its efforts to monitor Soviet compliance with START, it insisted that the Treaty contain a complete ban on the denial of data generated during flight tests. Not only must the parties broadcast unencrypted data during the tests, they also agreed to exchange the tapes of data recorded during the flight tests.

**Information Exchanges**

START mandates that the parties exchange detailed information about the numbers, locations, and characteristics of treaty-limited ballistic missiles and heavy bombers. For the most part, this information confirms information that each country collects with its own NTM. It can provide additional details and help the countries interpret ambiguous or incomplete data. The countries have also had to notify each other when they move ballistic missiles or bombers that are limited by the treaty. These notifications help each country monitor the locations of the other side’s permitted systems and detect the possible presence of excess or illegal systems.

**On-site Inspections**

Under START, the United States and Russia have conducted several different types of on-site inspections. They use these inspections to collect information about permitted systems and activities at declared facilities, but they are not permitted to go “anywhere, anytime” in search of treaty violations. These inspections may not provide much new information that is needed to verify compliance with the Treaty, but can confirm and add detail to information collected by NTM and data exchanges. Further, with the short notice available before many of these inspections, a country would find it difficult to hide evidence of a violation at a declared facility.

START has permitted inspections at all the declared facilities that produce, house, and support ballistic missiles and heavy bombers. The countries use these inspections to confirm information about the number of systems located at each facility. They have also viewed treaty-limited items to confirm information about their characteristics; for example, they can use short-notice inspections to confirm that the number of warheads on a missile does not exceed the number attributed to that type of missile in the data base. Each country has also established permanent monitoring systems around a final assembly facility for one of the other country’s mobile ICBMs to help them count mobile ICBMs as they enter the force.

Each of the inspections permitted by the START Treaty is governed by complex and detailed procedures that address everything about the inspection process. These procedures outline, among other things, the airports the inspectors can use when they arrive in the country, the amount of notice they need to give before the start of the inspection, the amount of time the host country has to transport the inspectors to the selected site, the types of equipment the inspectors can use, the amount of time that can transpire during the inspection, and the procedures the inspectors and hosts would use to resolve questions that came up during the visit. These procedures and rules are designed to outline the rights and responsibilities of both parties, and minimize any potential conflict that might occur during inspections, but they also can create conflicts and of their own if
questions about procedures come up during the process. Most analysts agree, however, that the START inspection process has had few significant problems over the years.

Synergy in Monitoring and Verification

Each verification provision in START is designed to provide the parties with a distinct source of information about the forces and activities of the other side. They also mesh together in a way that is designed to deter violations and increase confidence in the parties’ compliance with the Treaty. For example, much of the data collected during on-site inspections can also be collected by NTM or shared during data exchanges. The inspections essentially confirm expected information. Nevertheless, this redundancy can detect inconsistencies and thereby complicate efforts to hide information and evade Treaty limits. For example, if one party did not notify the other before it moved a treaty-limited item to a different facility, but the other party’s NTM detected the movement, the inconsistency might raise questions about whether the first party were trying to hide or conceal an item limited by the treaty. Over time, the START regime has also allowed the parties to collect information that may not be central to the goals of the Treaty but could still add to their understanding of the forces and operations of the other side. Many of the Treaty’s supporters argue that this adds confidence and predictability to assessments of the other side’s strategic forces.

START Implementation

In September 1990, before START entered into force, the United States had more than 10,500 accountable warheads deployed on nearly 2,250 delivery vehicles.10 By January 2009, this number had declined to 5,576 accountable warheads on 1,198 delivery vehicles.11 Soviet forces had declined from more than 10,000 accountable warheads on 2,500 delivery vehicles in September 1990 to 3,909 accountable warheads on 814 delivery vehicles in January 2000. All the nuclear warheads from the SS-18 ICBMs and heavy bombers in Kazakhstan had been returned to Russia by May 1995. All the nuclear weapons had been removed from Ukraine’s territory by June 1996, and all 81 SS-25 mobile ICBMs had been moved from Belarus to Russia by late November 1996. Ukraine has eliminated all the ICBM silos and heavy bombers that were deployed on its territory. All the parties have also participated in the on-site inspections permitted under the Treaty. They continue to meet, twice each year, in the JCIC. While both the United States and Russia have raised some questions about compliance with the Treaty, both agree that there have been few significant compliance disputes.

The Strategic Offensive Reductions Treaty12

In 2001, during its first year in office, the Bush Administration conducted a Nuclear Posture Review to evaluate the size, structure, and role of the U.S. nuclear arsenal. As a part of that review, the Administration determined that the United States could reduce its strategic forces to

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10 U.S. Arms Control and Disarmament Agency Archives. START Data Base, exchanged September 1, 1990.
between 1,700 and 2,200 “operationally deployed nuclear warheads.” During a summit meeting with Russia’s President Vladimir Putin in November 2001, President Bush announced that the United States would pursue these reductions unilaterally in the next decade, without signing a formal arms control agreement. President Putin indicated that Russia wanted to use the formal arms control process to achieve deeper reductions in nuclear arsenals, and emphasized that the two sides should focus on “reaching a reliable and verifiable agreement.”

Within the Bush Administration, Secretary of State Colin Powell supported the conclusion of a “legally binding” arms control agreement. He apparently prevailed over the objections of officials in the Pentagon who reportedly wanted the United States to maintain the flexibility to size and structure its nuclear forces in response to its own needs. Consequently, the United States and Russia signed the Strategic Offensive Reductions Treaty (also known as the Moscow Treaty) on May 24, 2002. It received the advice and consent of the Senate on March 6, 2003 and the approval of the Russian parliament on May 14, 2003; it entered into force on June 1, 2003.

The Moscow Treaty states that the United States and Russia will reduce their “strategic nuclear warheads” to between 1,700 and 2,200 warheads by December 31, 2012. The text does not define “strategic nuclear warheads” and, therefore, does not indicate whether the parties will count only those warheads that are “operationally deployed,” all warheads that would count under the START counting rules, or some other quantity. The text does refer to statements made by Presidents Bush and Putin in November and December 2001, when each outlined their own reduction plans. As a result, the United States and Russia each use their own definition when counting strategic nuclear warheads, and neither uses the START counting rules. The Treaty does not limit delivery vehicles or impose sublimits on specific types of weapons systems. Each party shall determine its own “composition and structure of its strategic offensive arms.” In addition, the Treaty does not contain any definitions or descriptions of the types missiles and bombers whose warheads count under the Treaty limits.

In addition, the Moscow Treaty does not contain any monitoring or verification provisions. During the hearings on the resolution of ratification, the Bush Administration noted that the United States and Russia already collect information about strategic nuclear forces under START and during implementation of the Nunn-Lugar Cooperative Threat Reduction Program. At the time, some in Congress questioned whether this information would be sufficient for the duration of the Treaty, since START expires three years ahead of the Moscow Treaty. This break in the time lines is one of the primary reasons why many analysts and Members of Congress believe the two sides should at least extend the monitoring and verification provisions in START through the end of the Moscow Treaty.

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15 For details on the substance of the Treaty, see CRS Report RL31448, Nuclear Arms Control: The Strategic Offensive Reductions Treaty, by Amy F. Woolf.

Preparing for START Expiration

U.S.-Russian Discussions

In September 2006, U.S. Undersecretary of State Robert Joseph and Russian Deputy Foreign Minister Sergei Kislyak met to initiate a new strategic security dialogue. This dialogue evolved into a series of meetings that addressed a range of issues. START was included, but was not high on the agenda of the meetings. During the first meeting, and at a second one in December 2006, the two sides outlined their goals for the talks. Russia indicated that it wanted to follow START with a new formal treaty that would be “similar in size and complexity to START” and would use many of the same definitions and counting rules as START. Russia also suggested that the two sides establish a regular working group, with meetings chaired at the Assistant Secretary level, to work out the details of this new Treaty. According to a Bush Administration official, the United States had “no appetite for those big, giant documents that try to script every single element of strategic forces.”\(^{17}\) The Administration emphasized that the United States and Russia no longer needed arms control agreements to manage their strategic relationship. The United States also did not want to set up a working group or negotiate a new Treaty to follow START, and preferred to pursue broader “strategic discussions” within a political framework.\(^{18}\)

In spite of their differences, the United States and Russia agreed that they should continue to implement some of the monitoring and verification provisions in START after the Treaty expired. Russia proposed that they include these verification provisions in a new, legally binding Treaty that would also limit the number of warheads permitted on each side. According to one Russian official, these measures would have to be a part of a legally binding agreement to be permitted by domestic Russian law.\(^{19}\) The United States, however, argued for a less formal arrangement of transparency and confidence-building measures. These could include voluntary notifications and site visits, but would not contain the detailed procedures and provisions included in START.\(^{20}\)

Although Undersecretary of State Joseph initially rejected the idea, the two sides did hold a series of meetings chaired at the Assistant Secretary level in search of a possible monitoring and verification agreement. They continued to disagree, however, on whether the verification measures should be voluntary or legally binding, and whether they should be attached to a formal treaty that would also limit the numbers of deployed warheads.

In addition to the periodic meetings at the Undersecretary level (Joseph/Kislyak, then Rood/Kislyak) and the working group meetings at the Assistant Secretary level, the United States and Russia held several high level meetings that addressed the future of U.S.-Russian arms control. For example, Secretary of State Condoleezza Rice met with Russia’s Foreign Minister Sergey Lavrov in July 2007. Their formal statement after the meeting said that “The United States and Russia reiterate their intention to carry out strategic offensive reductions to the lowest possible level consistent with their national security requirements and alliance commitments.”


added that the “Ministers discussed development of a post-START arrangement to provide continuity and predictability regarding strategic offensive forces.” But the United States still did not accept Russia’s proposal to pursue a formal Treaty.

The U.S. position began to shift later in 2007. Secretary Rice and Secretary of Defense Robert Gates held joint meetings in Moscow with their counterparts in October, and concluded that, although the United States was still seeking something “far less formal than a major treaty” it might accept, according to Secretary Gates, “a binding agreement” preserving some of START, as long as it was “narrowly focused.” Nevertheless, the United States continued to reject a formal treaty that would limit the number of nuclear weapons. When Secretary Gates and Secretary Rice traveled to Moscow to discuss START again in March 2008, Secretary Rice argued the current U.S.-Russian relationship does not require “the kind of highly articulated, expensive limitations and verification procedures that attended the strategic arms relationship with the Soviet Union.”

Russian officials, however, continued to reject the U.S. proposals for an informal “notification” regime.

Presidents Bush and Putin failed to break this stalemate when they met in Sochi, Russia in April 2008. Although they signed a new Strategic Framework that contained a pledge to enact nuclear weapons reductions “to the lowest possible level consistent with our national security requirements and alliance commitments,” they failed to agree on the way forward in their arms control relationship. Russia still wanted to negotiate a Treaty based on the START framework; the United States was only willing to codify some verification measures.

The talks continued through the spring and summer of 2008, although, according to some news reports they were “irregular and unproductive.” Some reports suggested that the United States might suspend the talks in response to the Russian incursion into Georgia in August, 2008, but both sides agreed the talks were important enough to continue in September and October. Nevertheless, the two sides remained far apart. Russia was unwilling to recede from its call for a formal Treaty with detailed definitions and counting rules; the United States still preferred a less formal agreement that outlined transparency and confidence-building measures. The United States did, however, recognize that Russia would not permit on-site visits without a formal Treaty, so Washington proposed in October 2008 that the two sides attach an informal transparency regime to a legally binding Treaty that essentially reiterated the limits and declarations outlined in the Moscow Treaty. Russia rejected this proposal. In a speech delivered on October 10, Russian President Dmitry Medvedev said that Russia attaches “exceptional importance to concluding a new, legally binding Russian-American agreement on nuclear disarmament” to replace START. He further noted that “what we need is a treaty and not a declaration,” which is a reference to the format used in the Moscow Treaty.

The United States and Russia, along with representatives from Ukraine, Belarus, and Kazakhstan, met in the JCIC from November 13 through 21, 2008. This forum provided the venue for the formal meeting, mandated by START, where the parties considered whether to extend the Treaty. They did not reach any agreements during this meeting, other than to note that they were leaving the options open for the Obama Administration. The United States and Russia held one final meeting in their series of strategic security discussions on December 15, 2008; bi-lateral arms control was one of many issues on the agenda. They held extensive discussions about the U.S. draft treaty, but they failed to reach agreement on any of the outstanding issues.

The talks resumed, and gained momentum, during the first few months of the Obama Administration. In early March 2009, Secretary of State, Hillary Clinton, met with Russia’s Foreign Minister Sergey Lavrov in Geneva. They agreed that the two nations would seek to reach an agreement that would replace START by the end of 2009. They said they would develop a plan with “a very specific set of objectives and responsibilities” that they could present to the nations’ presidents before their meeting in early April.

In April, after their meeting in London prior to the G-20 summit, Presidents Obama and Medvedev endorsed these negotiations and their goal of reaching an agreement by the end of 2009. In a statement issued after their meeting, they said they were instructing their negotiators to begin talks immediately and to report their results before the presidents met again in July 2009. They indicated that the subject of new agreement “will be the reduction and limitation of strategic offensive arms”; that they would seek to reduce their forces to levels below those in the 2002 Moscow Treaty; and that the new agreement would “mutually enhance the security of the Parties and predictability and stability in strategic offensive forces, and will include effective verification measures drawn from the experience of the Parties in implementing the START Treaty.”

Assistant Secretary of State Rose Gottemoeller and the security and disarmament chief from the Russian Foreign Ministry, Anatoly Antonov, began these negotiations with a meeting in Rome on April 24, 2009. Both representatives noted that the talks had gotten off to a good start, and they expected to have a good report for the Presidents in July. At this meeting, the two sides focused on procedural and scheduling issues; they have held three rounds of formal negotiations since that time, working to develop the framework that the Presidents wanted to review at their summit in Moscow in early July. Discussions about the Treaty were also reportedly on the agenda for the May 7 meeting between Secretary of State Clinton and Russian Foreign Minister Sergei Lavrov.


When Presidents Obama and Medvedev met in Moscow on July 6-7, 2009, they signed a Joint Understanding for the START follow-on Treaty. This statement contains the possible range for the numerical limits that will be in the Treaty—between 500 and 1,100 of strategic delivery vehicles and between 1,500 and 1,675 for their associated warheads. It also includes and a list of other issues—such as provisions for calculating the limits, provisions on definitions, and a provision on the relationship between strategic offensive and strategic defensive weapons—that will be addressed in the Treaty. These are described in more detail below.

U.S. and Russian Proposals

Neither the United States nor Russia believes the two parties should extend the START Treaty in its current form. Neither wants to continue to implement all the monitoring and verification provisions included in START; the lengthy and highly detailed lists of procedures and requirements have proven costly and complicated. In some cases, these details were designed to address concerns about the potential for cheating and evasion that no longer exist in the current environment. Moreover, as is noted below, some of the limits and restrictions have begun to interfere with ongoing weapons programs for both nations. A simple extension of START would not reduce these pressures, and, unless the parties could agree on a new Treaty, could remain in force for five years.

Russian Proposals

In a speech to Russian diplomats in June 2006, then-President Vladimir Putin proposed that the United States and Russia begin negotiations to replace START with a new Treaty. Since then, Russia has consistently and repeatedly insisted that the two sides replace START with a treaty that would not only reduce each side’s strategic offensive forces to 1,500 warheads, but would count the warheads on all deployed delivery vehicles, as START has done. Such an agreement would maintain the predictability and the stability afforded by START, an outcome that would not be possible in the absence of a detailed, legally binding Treaty. The new treaty would not need to keep all the provisions of START, but should preserve “the main systematic structure of the agreement,” including limitations on delivery vehicles and warhead deployments.

Reports indicate that Russia would like the new treaty to relax START’s requirements for new types of ballistic missiles. As was noted above, START contains a precise definition of the changes needed to have a new missile counted as a “new type.” These provisions were designed to prevent Russia from deploying its SS-25 missile with more than one warhead. But Russia has developed the RS-24 missile, a new variant of its single-warhead SS-27 missile, which is, itself, a variant of the SS-25, and it plans to deploy this new missile with three warheads on each missile. Because the missile does not satisfy the Treaty’s “new types” definition, it would be

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limited to a single warhead under START, and a three-warhead version would violate the Treaty. This missile had its third successful test launch in late November 2008, and recent press reports indicate that Russia now plans to deploy this missile in December 2009, as soon as START expires. Russian officials have indicated that this missile is critical to the future of Russia’s strategic forces, not only because it can carry up to three warheads, but also because it will incorporate technologies that would allow it to penetrate U.S. ballistic missile defenses.40

According to some reports, Russia also would like the new Treaty to ease some of the restrictions that START imposes on mobile ICBMs.41 Although these restrictions were intended to apply to both parties, the United States has never been affected by them because it never deployed mobile ICBMs. These provisions, including limits on the size of deployment areas, notifications about exercises, and the rights to special on-site inspections after the missiles have dispersed for exercises, were designed to complicate any effort to hide extra missiles within the legal deployments of mobile ICBMs. But they also impinge on the operations of the permitted missiles and add to the costs of operating the systems.42

Russia also would like the new Treaty to limit, as START did, both deployed delivery vehicles and their associated warheads. Many have noted that, over the next 8-10 years, the number of delivery vehicles in Russia’s nuclear arsenal will continue to decline sharply, as Russia retires many of its aging missiles and replaces them with smaller numbers of newer systems. It will, therefore, retain far fewer than the 1,600 delivery vehicles permitted by START and fewer than the 816 delivery vehicles it reported in its START data exchange in early 2009. A lower limit on delivery vehicles in a new Treaty would not only recognize the coming changes in Russia’s arsenals, but also move the United States toward similar, lower numbers of delivery vehicles. Moreover, Russia has long expressed concerns about the U.S. ability to add warheads to its missiles quickly by restoring warheads that had been removed under START’s downloading provisions. Limiting delivery vehicles and counting all the warheads on these vehicles with START-type counting rules would limit the number of warheads the United States could add to its force in a short period a time. Russia may also insist that a new Treaty require the that United States replace the platforms on all downloaded missiles, instead of just those that have had more than two warheads removed.43

Russia would like to retain some of START’s monitoring and verification provisions, although it would like to make them less costly and cumbersome. For example, the two sides could reduce the numbers of short-notice inspections permitted each year, and replace these inspections with less formal “visits.” The parties could also reduce the number of mandatory notifications, which were intended to help each side monitor the numbers and locations of treaty-limited items, and replace them with routine, periodic data exchanges.44

43 Ibid.
44 Ibid.
Russia has also sought to link limits on strategic offensive nuclear forces to potential limits on ballistic missile defenses. In particular, it wants the United States to cancel its plans to deploy missile defense interceptors in Poland and a radar in the Czech Republic. For example, in June 2009, President Medvedev stated that “the proposed cuts [in offensive weapons] are only possible if the U.S. relieves Russian concerns [about missile defense.] In any case, the link between strategic offensive and defensive weapons must be clearly fixed in the treaty.”

**U.S. Proposals**

When U.S. and Russian talks on the future of START began in 2006, the United States expected START to expire and the parties to pursue their own priorities when modernizing and modifying their nuclear forces. However, the participants in the U.S. government were divided on the question of whether to extend START’s monitoring provisions. According to some reports, U.S. officials believed the two sides should evaluate whether they even needed to continue to implement these provisions because, even without START, the amount of military cooperation and transparency between them had increased over the years. They further argued that the inspections regime had become too costly and cumbersome for the United States, and could interfere with military operations, without providing certain knowledge about Russian’s nuclear forces. Moreover, in the new security environment, the United States no longer needs detailed information about Russian forces; it just needs to understand the general trends and pending changes in force size and structure. Therefore, the two sides need, at most, an informal system with less structured visits and looser inspections.

Others argued that the START regime provides valuable information about Russian forces that is not available elsewhere, while also helping to build confidence and cooperation between the two sides.

While the United States has not identified any of the central limits in START that impinge on its current plans and programs, some officials have expressed concerns that an extension of these provisions, or their inclusion in a new Treaty, could affect future plans, such as the possible deployment of conventional warheads on ballistic missiles and the potential deployment of these conventional missiles at sites that are not listed in the Treaty. This concern emerged as a major roadblock in the recent U.S.-Russian discussions about what type of treaty should follow START. Russia has insisted that the new treaty count the warheads that could be deployed on all strategic delivery vehicles, as START did, in part to capture the warheads that could be carried on missiles converted to carry conventional weapons. It wants to count these warheads to limit the

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U.S. ability to break out of the treaty by converting the missiles back to nuclear warheads.\textsuperscript{51} The Bush Administration did not want the warheads that could be carried on these missiles to count under the Treaty because it did not want any limits on conventional warheads or any forced trade-offs between numbers of nuclear and conventional warheads.

U.S. officials have also expressed concerns about some of START’s monitoring and verification provisions. For example, the Navy has indicated that Russian requests for re-entry vehicle inspections on U.S. ballistic missile submarines can interfere with the scheduled maintenance and operations of the submarines, because the Navy must bring the submarine into port and the missile into a handling facility on the base. The treaty’s limits on the number of warheads that can be removed, or downloaded, from Trident submarines might also interfere with the Navy’s deployment plans for the future, particularly the United States chooses to remove more warheads from Trident missiles as it continues to reduce the overall number of strategic warheads in its arsenal.

Some in the U.S. government have also argued that START’s provisions requiring the exchange of telemetry data during flight tests of ballistic missiles will interfere with U.S. military plans and programs.\textsuperscript{52} In particular, the United States uses retired Minuteman II ICBMs as target vehicles during tests of its missile defense capabilities. Because these missiles are still limited by the START Treaty, the United States must provide Russia with all the telemetry generated during these flights. Yet, the data from these tests may reveal information not only about the Minuteman II ICBMs but also about the goals of the flight test and the characteristics of the missile defense interceptors. This concern has been a key issue in discussions about whether, and how, the United States and Russia should extend some of START’s monitoring provisions.

The Bush Administration eventually proposed that the two sides replace START with a short, legally binding Treaty similar to the Moscow Treaty and a longer, non-binding appendix on transparency and cooperation. This transparency regime would have been far less detailed and complex than START. It would have allowed for informal visits, without the detailed plans and notifications required by START, and probably would have relaxed the telemetry provisions, or at least exempt Minuteman II flights during missile defense tests from the requirement to broadcast and exchange telemetry. Moreover, as is noted above, the legally binding portion of the U.S. proposal would not have contained any of the detailed definitions and counting rules of START; the parties would declare their numbers of deployed warheads, as they do under the Moscow Treaty.

The Emerging Framework

As is noted above, the United States and Russia have resumed their negotiations and have pledged to complete a new treaty before START expires. Secretary of State Hillary Clinton offered a preview of U.S. goals for these talks during her nomination hearings, indicating that the Obama Administration would seek to negotiate “deep, verifiable reductions in all U.S. and Russian nuclear weapons, whether deployed or non-deployed, strategic or nonstrategic.”\textsuperscript{53} The statement issued after President Obama and President Medvedev met in London indicates,

\begin{itemize}
  \item [\textsuperscript{51}] “Russia Concerned by U.S. Position on START, Deputy Foreign Minister Says. \textit{Interfax}, December 19, 2008.
  \item [\textsuperscript{52}] Ibid.
\end{itemize}
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however, that the new agreement will focus on strategic offensive weapons, possibly leaving nonstrategic weapons and non-deployed weapons to a later date.

The April statement also indicates that the two sides will seek further reductions in their forces. In the Joint Understanding signed at the Moscow summit in July, the presidents noted that these reductions would take their forces down to between 1,500 and 1,675 warheads. They did not indicate whether they would calculate this number using counting rules like those in START or declarations like those in the Moscow Treaty. They did, however, indicate that the new Treaty would include “provisions for calculating these limits.” As is discussed in more detail below, the United States probably will not agree to use the START counting rules, in their entirety, to calculate the number of warheads that count under the new Treaty, as this would require significant changes in the size and shape of the U.S. nuclear arsenal. Russia, however, is not likely to accept a simple declaration, as is mandated by the Moscow Treaty, because this leaves the United States with the potential to reduce its forces by removing warheads from deployed delivery vehicles and then, if circumstances change, to restore those warheads to its forces in a relatively short amount of time.

The Joint Understanding signed at the Moscow summit also indicates that the new Treaty will limit each side to between 500 and 1,100 delivery vehicles. These numbers probably represent each side’s opening position in the negotiations, with Russia suggesting a limit of 500 delivery vehicles and the United States suggesting the higher limit of 1,100 delivery vehicles. These numbers are consistent with the number of delivery vehicles each side may expect to deploy over the next few years. For example, Russia indicated in the January 2009 START data exchange that it currently has 816 strategic delivery vehicles. Some of these, however, probably do not contain operational missiles but continue to count under START because they have not been eliminated according to START rules. As it continues to retire its aging missiles, Russia may reduce its force to 500 or fewer delivery vehicles in the next 5 to 10 years. Russia, in contrast, still has 1,198 delivery vehicles that count under the START Treaty. Many of these, including 100 ICBM silos, 96 SLBM launch tubes, and more than 100 bombers, are no longer equipped to carry missiles with nuclear warheads. But they still count under START because they have not been eliminated according to START’s elimination provisions. Because the United States does not plan to eliminate these launchers, it would evidently prefer a limit on delivery vehicles that is close to the number it has currently deployed.

Some analysts have criticized the U.S. acceptance of a limit on delivery vehicles by noting that, as the negotiations proceed, the United States may accept the lower limit proposed by Russia and, as a result, accept the obligation to eliminate many of its existing delivery vehicles. They further argue that by agreeing to reduce its deployed delivery vehicles, the United States is giving Russia “something for nothing,” as Russia is going to reduce its force anyway as it retires older missiles.

Others, however, note that the number of operational delivery vehicles in the U.S. force already falls below the 1,100 limit proposed by the United States. If the United States does not count its empty ICBM silos, bombers that have been removed from the nuclear mission, or SLBM launch tubes on submarines that have been converted to other missions, it has only approximately 800 operational delivery vehicles that can carry nuclear warheads. As the negotiations proceed, the

United States could seek to change the definitions in START, so that delivery vehicles that no longer carry nuclear-armed missiles no longer count against the treaty. Or it could seek to alter the elimination rules, so that it removes these systems from the treaty limits without cutting them up or blowing them up. The Joint Understanding signed in Moscow does not rule out this option, as it indicates that the new treaty will contain provisions on “definitions, data exchanges, notifications, eliminations, inspections, and verification procedures.” It does not specify what these provisions will be, nor does it indicate that they will be the same as the provisions in START. If the two sides agree to change some of START’s definitions and rules, then they could set a limit on delivery vehicles that is lower than the original U.S. proposal but higher than the original Russian proposal. Both sides could claim a “victory,” as Russia could point out that the United States had agreed to accept a lower limit and the United States could point out that, in spite of the lower limit, the new rules protected U.S. systems that no longer carry nuclear weapons.

During their meeting in April, Presidents Obama and Medvedev agreed that the two nations would address Russia’s concerns with U.S. missile defense programs, but that these discussions would not occur in the same forum as negotiations on a new arms control treaty. As was noted above, Russian officials, including President Medvedev, have stated that Russia would not accept further reductions on offensive forces unless the United States addressed the link between offensive and defensive weapons. Some analysts have concluded that this linkage meant the United States would have to abandon its plans for a missile defense site in Europe if it wanted to conclude an agreement on offensive weapons. They further argued that the Obama Administration would be likely to make this trade and that this trade would be detrimental to U.S. security.56

In the Joint Understanding signed at the Moscow summit in July, the United States and Russia did agree that the new treaty would contain a “provision on the interrelationship of strategic offensive arms and strategic defensive arms.” There is, however, no reason to believe that this provision would affect U.S. plans for the deployment of missile defenses in Europe. In a briefing for the press shortly before the Moscow summit, Michael McFaul, the special assistant to the President and senior director for Russian and Eurasian affairs on the National Security Council, stated, specifically, that “we’re not going to reassure or give or trade anything with the Russians regarding ... missile defense.”57 In other words, the provision in the treaty may simply recognize a relationship between offenses and defenses, without committing the United States to accept limits on its missile defense plans.

**Options for the Future**

It may be difficult for the United States and Russia to negotiate and ratify a new Treaty before the end of 2009, even though both sides have said they want to do so. Many of the senior State Department and Defense Department officials who will craft U.S. policy on arms control and nuclear weapons have only recently won confirmation from the Senate. Moreover, both sides must present the treaty to their legislatures for advice and consent. Senator Lugar has noted that, if a Treaty is to move through the Senate before the end of the year, it must be completed by August 2009. In addition, during its first year in office, the Obama Administration must conduct a

Nuclear Posture Review, which could recommend changes in both U.S. nuclear weapons policy and the U.S. force structure. Some analysts have argued that the United States should not pursue any arms control agreements with Russia until this study is complete. Others, however, note that the early meetings in this study have already addressed the potential limits for a near-term replacement for START, and that officials at DOD and in the military commands can advise these negotiations through ordinary channels, without waiting for the completion of the NPR.

Although they have agreed to negotiate a new treaty, the United States and Russia could choose from a number of options for the future of their arms control relationship if these negotiations languish. They could allow START to lapse or they could extend START for five years. They could negotiate a new Treaty, or they could pursue less formal arrangements to manage their nuclear forces. A new Treaty could include further reductions in nuclear weapons, or it could simply establish a transparency regime that called for continued cooperation in monitoring without further reductions in deployed weapons. In their discussions thus far, the United States and Russia have agreed they do not want to extend START, but they have been unable to agree on what kind of arrangement will follow START, in part because they do not agree on the goals they seek to achieve in their discussions. Hence, this paper will review some of the possible goals for the future of the U.S.-Russian arms control relationship before it reviews the range of options.

**Possible Goals**

**Improving the U.S.-Russian Relationship**

Many of the public discussions about the future of the U.S.-Russian arms control process focus on whether arms control can help the United States and Russia manage and improve their broader political relationship. As was noted at the beginning of this report, many observers, including some who served in the Bush Administration believe that the U.S.-Russian relationship has evolved to the point where the parties no longer need arms control as a symbol of their cooperation on resolving common security issues. Others, however, including some Members of Congress, believe that START and the arms control process still represent “the foundation of the U.S.-Russian strategic relationship” and a “key basis for trust between the two sides.”

**Supporting Nuclear Nonproliferation Goals**

During the past few years, the public debate over arms control and nuclear weapons has increasingly focused on the role that the U.S.-Russian arms control process can play in furthering broader international nuclear nonproliferation goals. For example, many analysts have argued that a U.S.-Russian agreement to either extend or replace START can demonstrate their commitment to their arms reduction obligations under the Nuclear Nonproliferation Treaty, and can, therefore help strengthen the nonproliferation regime, in general, and help ensure a successful outcome at the 2010 review conference of the NPT. Others, however, argue that the nations who are currently seeking nuclear weapons would not be swayed in their decisions by any steps taken by the United

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States or Russia, as their nuclear programs derive from their own political and security concerns. Moreover, they note that the United States and Russia have already reduced their Cold-War era nuclear arsenals sharply, without reaping any benefits in their efforts to stem nuclear proliferation.

**Restraining Weapons**

Many analysts in the United States and officials in the Bush Administration have argued that, in the current security environment, the United States and Russia no longer need to worry about all the details related to the size or structure of the other side’s nuclear forces, they just need to understand the general trends.\(^6\) Both have reduced their forces in recent years and neither needs to fear that the other would attack it with its remaining forces. Therefore, they no longer need to negotiate formal treaties to establish and maintain balance between their two force structures. Moreover, these treaties undermine the flexibility that each nation may need to adjust its forces in response to future threats from emerging adversaries.

Although Russia recognizes that the relationship between the two nations is not as tense as it was during the Cold War, it still sees threats to its security from U.S. policies and programs. Therefore Russia continues to value arms control measures that restrain U.S. forces because these measures provide both stability between the two sides forces and predictability for Russia when it considers how U.S. forces may evolve.\(^6\)

Many analysts in the United States also believe that the stability and predictability offered by arms control agreements are valuable enough to offset any limits the treaties may create for U.S. flexibility. Some argue that the process of implementing an arms control treaty, with its communication and cooperation, by itself, is important, so that the parties can avoid misunderstandings while they work together to reduce nuclear forces and nuclear dangers. Others, however, emphasize that the actual limits and restrictions in the treaty, as much as the cooperation to implement them, determine the amount of stability and predictability offered by the treaty. They note that the United States and Soviet Union included many of the detailed provisions in START because both wanted to restrain and reduce the nuclear forces of the other side to reduce the threat from those forces, and both agreed to include detailed monitoring and verification provisions so that they could be more confident about achieving the goal of reducing the threat.

**Promoting Transparency and Cooperation**

Many have argued that, at least in the near-term, the United States and Russia should seek to replace START with a regime that will ensure transparency and build confidence, even if it does not mandate deeper reductions in nuclear weapons.\(^6\) This type of agreement will ensure that some form of monitoring and verification provisions remains in place after START expires and while the Moscow Treaty remains in force. A confidence-building regime can foster cooperation.

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\(^6\) In a recent interview with the Arms Control Association, Russia’s Ambassador to the United States, Sergey Kislyak, who, as Deputy Foreign Minister participated in talks on the future of START, stated that “the mutual constraints provided for in START should not be lost because they do provide stability and are one of the important things that also should be preserved and should not be discarded.” See, Arms Control Association, *Interview with Sergey Kislyak, Russian Ambassador to the United States*. December, 2008. http://www.armscontrol.org/act/2008_12/KislyakInterview.

between the two sides even if the data it provides is not needed to verify compliance with an arms control Treaty. As one observer has noted, START “forces the United States and Russia to communicate,” and to interact in ways that can build trust between them. Therefore, an agreement that allowed the parties to continue with data exchanges, notifications, and some inspections, even without further reductions, could prove valuable.

Some argue that the United States and Russia can promote transparency and continue their cooperation without signing a formal arms control agreement. They note that the two sides will continue to cooperate on reducing nuclear dangers through the nonproliferation and threat reduction programs that the United States funds to improve security and eliminate weapons in Russia. These efforts can be bolstered by informal visits to weapons deployment areas and storage facilities. Moreover, some have argued that the formal monitoring and verification provisions in START can create tensions and undermine cooperation with their rigid requirements and stringent rules, which do not allow the parties to adapt their activities when conditions change.

Scope

Reductions vs. Transparency

Some analysts have argued that START provides the United States and Russia with the framework they could use to move quickly to negotiate a comprehensive agreement that would both reduce forces below the Moscow Treaty limits and outline a wide-ranging monitoring and verification regime. This approach would not only satisfy Russia’s preference for pursuing deeper reductions in a follow-on to START in the near-term, but would also allow the United States and Russia to demonstrate bold leadership to the international community in the months before the 2010 NPT Review Conference. The two sides may not have time to complete an agreement with deep reductions in it before START expires, but an interim agreement, with lesser reductions, could still advance the arms control agenda by highlighting their commitment to pursue further reductions in the future. This approach is similar to the one outlined by Presidents Obama and Medvedev during their meeting in April 2009, where they pledged to achieve new and verifiable reductions “in a step-by-step process.”

On the other hand, some have argued that a shorter, less detailed document, like the Moscow Treaty, might be sufficient to foster communication and cooperation. Even without specific definitions and restrictions, such a document can still demonstrate the parties’ intent to reduce nuclear arms. Further, with fewer detailed restrictions, both sides would be able to maintain the flexibility they might need to alter their forces to meet unanticipated changes in the international security environment. Moreover, the negotiations could probably proceed more quickly than those that sought to produce a lengthy, detailed treaty. The United States and Soviet Union took seven years to negotiate START, but the United States and Russia completed the Moscow Treaty in less than a year.

Linkages

The START Treaty limits only strategic offensive delivery vehicles and the warheads carried by those forces. But the history of U.S.-Soviet arms control negotiations is full of examples where one or the other side has tried to include limits or restrictions on other types of weapons. Over the years, both countries have sought to include some types of limits on their shorter-range non-strategic nuclear weapons in arms control agreements; analysts continue to suggest that these limits are both necessary and inevitable in a future agreement. The two sides have also often linked progress in discussions on missile defense programs with progress on limits on strategic offensive nuclear weapons. This linkage was explicit in the 1970s, when the first Strategic Arms Limitation Talks (SALT I) produced both the Anti-Ballistic Missile Treaty and the Interim Agreement on Offensive Arms. This linkage between offenses and defense remains important to Russia, as is evident in its concerns about the U.S. plans to deploy a missile defense site in Poland and the Czech Republic.

Several analysts have also suggested that future treaties should limit not only deployed warheads, but also the numbers of warheads that each side retains in its stockpile of reserve warheads. While no arms control treaty has ever sought to reduce either nation’s stockpile of reserve warheads, as the number of deployed warheads declines further, the number of warheads in storage could create an imbalance if either side could return them to deployment quickly. Moreover, reductions in the numbers of stored warheads, and their consolidation in fewer storage facilities, might ease concerns about the possibility that some might be stolen from insecure storage facilities.

Participants

Although the United States and Soviet Union signed START as a bilateral agreement, it evolved into a multilateral treaty when Belarus, Ukraine, Russia, and Kazakhstan succeeded the Soviet Union as parties to the Treaty. Each of the four former Soviet states is subject to the limits, restrictions, and monitoring provisions in START, even though Russia is the only one with nuclear weapons left on its territory. Each also has a voice and a vote in the deliberations in the Joint Compliance and Inspection Commission established by the Treaty. If the parties agree to extend START, Ukraine, Belarus, and Kazakhstan will remain as parties to the Treaty unless they agree to amend it to include only the United States and Russia. If the United States and Russia sign a new Treaty, these other three states probably would not be included.

Analysts have long suggested that, as the United States and Russia reduce their forces to ever lower levels, they may eventually open up the arms control process to other nuclear weapons states. This was rarely an issue during the Cold War, because the United States and Soviet Union each deployed thousands of warheads on their strategic offensive nuclear weapons. France, Great

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68 President Obama has indicated that he would seek to include limits on weapons in the stockpile in a future arms control treaty. See “Arms Control Today 2008 Presidential Q&A: Democratic Candidate Barack Obama.” Arms Control Association. September 24, 2008.

69 According to an official with the U.S. State Department, Russia “prefers working bilaterally with the United States on nuclear weapons issues and wants to ‘exclude’ Belarus, Kazakhstan, and Ukraine from future arrangements.” See Wade Boese. “START Decision Put Off to 2009.” Arm Control Today. December, 2008.
Britain, and China have deployed just a few hundred warheads each. Most analysts agree that these other nations should not join the process until the United States and Russia reduce to 1,000 or fewer warheads. Hence, as the United States and Russia decide how, or whether, to advance their bilateral arms control agenda, they may also begin to think about when, or whether, to expand the process to include other nuclear nations.

**Potential Paths**

**Allow START to Lapse**

The United States and Russia could allow START to lapse at the end of 2009. The Bush Administration initially preferred this option because it did not want to continue the formal U.S.-Russian arms control process at all, but also believed that START could lapse without signaling the end of U.S.-Russian nuclear cooperation or even the end of formal arms control. As the Bush Administration eventually suggested, the two sides could agree, without signing a formal Treaty, to continue to implement some of the monitoring provisions in START so that they could both gather information needed to verify compliance with the Moscow Treaty and retain the cooperative relationship that had developed during START’s verification process. This path could, however, conflict with Russia’s domestic law as it would need to be a party to a legally binding Treaty before it could allow foreigners to have access to sensitive military and nuclear sites. To rectify this problem, the parties might seek to negotiate a separate executive agreement or memorandum of understanding to allow the visits. Alternatively they could, as the Bush Administration suggested, attach the monitoring provisions to a simple treaty document that essentially restated the provisions of the Moscow Treaty.

If the parties allowed START to lapse, and did not have the time to agree on a replacement before December 2009, they could still pursue negotiations on a treaty that would eventually replace both START and the Moscow Treaty. Concerns about the absence of any arms control limits might inspire them to press forward on this task and seek compromises in a short amount of time. Conversely, if the absence of arms control limits did not appear to upset stability or the level of cooperation between the parties, then the pressure to reach a new agreement might diminish. Hence, this path may be attractive to those who believe that the United States and Russia no longer need formal treaties to manage their relationship, but it may appear too risky to those who believe that the arms control process remains an important part of the relationship.

**Extend START**

Neither the United States nor Russian wants to extend START in its present form, particularly for the full five years allowed under the terms of the Article XVII. Yet, this path may be the only one available if the parties want to retain some of the START monitoring and verification provisions in the near term. They could possibly agree to extend START for a shorter period of time, perhaps

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two years, while they negotiate a new Treaty that would replace START. But this option is not mentioned in the current Treaty, so it might need to be treated as an amendment to the Treaty and require the advice and consent of both nations’ legislatures. The U.S. Senate might not object to a short-term extension of START, particularly since several Members have already called on the parties to extend the Treaty’s monitoring and verification regime, but Russia’s parliament may not be as accepting. The current tensions in the U.S.-Russian relationship, along with ongoing concerns about U.S. plans to deploy missile defenses in Poland and the Czech Republic, could lead some in Russia to question whether any extension of START, with its limits on Russia’s ability to modernize its forces and deploy multiple warhead ballistic missiles, serves Russia’s interests.

**Extend and Amend START**

Instead of amending START so that they could extend it for less than the mandated five years, the parties might extend START according to the Treaty provisions, which they could do without seeking approval from their legislatures, then try to amend the Treaty to adjust the provisions that each finds too binding in the current environment. For example, Russia might want to alter the “new types” rule in START, or it might seek a waiver from the rule for the RM-24 missile; the United States might want to alter the provision requiring the exchange of telemetry from missile flight tests, or seek a waiver for retired Minuteman II missiles that are used as missile defense targets. Both sides might want to modify the verification protocol to remove some of the more costly and intrusive requirements, particularly if the parties believe the data they provide is no longer critical to understanding the other side’s nuclear forces. Consequently, they might be able to craft a “package” of amendments that would incorporate each side’s highest priorities.

Both the United States and Russia would have to submit this package for approval by their legislatures. Some in the U.S. Senate might object to the changes that relieve Russia of some of its obligations, but a package that addressed both nations’ concerns might still win the approval of the necessary 67 Senators. The Russian parliament might object to any agreement that extended START without addressing Russia’s concerns about U.S. missile defense plans. However, it might, nevertheless, accept an amendment package that addressed some of Russia’s concerns with the provisions in START. In addition, if the United States and Russia extended START for five years before negotiating the amendments, the Russian parliament would have to accept either the unmodified extension, or the amendment package.

**Replace START**

Regardless of whether they allow START to lapse or extend it before December 2009, the United States and Russia have pledged to pursue negotiations on a new Treaty.

As was noted above, Russia would like the new treaty to be a complete package of further limits on nuclear weapons, detailed definitions and counting rules, and monitoring and verification provisions. The Bush Administration, on the other hand, would have liked the new treaty to essentially replace the Moscow Treaty, with some informal monitoring provisions to offer a measure of transparency and cooperation. The Obama Administration seems to have accepted Russia’s proposal for a more complete treaty, with new limits and formal verification provisions, but it may be difficult for the two sides to bridge their differences and complete this type of treaty before START expires.
Further Reductions with START Rules

A new treaty could contain START-style definitions and counting rules, along with deeper reductions in the permitted numbers of warheads. This combination of provisions would continue to reduce U.S. and Russian deployed forces and would also provide transparency and predictability for the future. Without the START-style definitions and counting rules, neither side would be able to confirm that the other has complied with the Treaty’s reductions because each will not know what the other side considered to be limited by the treaty.

At the same time, a Treaty that required the United States to reduce its forces below the Moscow Treaty limits of 1,700-2,200 warheads, but also used the START counting rules to calculate the number of warheads attributed to deployed delivery vehicles could force the United States to make hard choices and significant changes in the structure of its nuclear forces. Under START, all deployed delivery vehicles count under the Treaty’s limits (Russia has proposed that the same be true in a new agreement); the parties then calculated the number of deployed warheads by multiplying the number of deployed delivery vehicles by a number of warheads listed in the data base for that type of delivery vehicle.

The Moscow Treaty, on the other hand, does not assume all delivery vehicles carry deployed warheads, and allows the parties to exclude those that do not. As a result, the United States does not count the launchers or warheads on 2 of its 14 Trident submarines because they are in overhaul and not “deployed.” These would count under the START rules. It also has removed more than two warheads from some Trident missiles, without changing the front end of the missile. Under START, these missiles would count as six warheads each; in its declaration under the Moscow Treaty, the United States counts only the aggregate number of actual deployed warheads; it does not even have to specify how many warheads are deployed on any given missile or submarine. Moreover, under the Moscow Treaty, the United States counts only the bomber weapons maintained in the active stockpile at U.S. bomber bases. Under START each bomber equipped to carry cruise missiles would count as 20 warheads, regardless of available weapons or actual deployments.

These differences produce striking differences in the number of warheads that count under each Treaty. In May 2008, the United States declared that it had 2,871 operationally deployed strategic warheads that would count against the Moscow Treaty.72 At the same time, when it exchanged START data with Russia in January 2009, it stated that it had 5,576 warheads attributed to deployed ICBMs, deployed SLBMs, and heavy bombers. Many of these attributed warheads could be eliminated with some accounting changes,73 but it is clear that under START definitions, the United States would have to count hundreds of warheads that it excludes from the Moscow Treaty total because it does not consider them to be operationally deployed.

73 For example, this total includes 400 warheads attributed to Peacekeeper missiles. These missiles have been deactivated, but the United States did not eliminate the silos according to START Treaty rules, so the warheads still count. It also excludes up to 768 warheads that could be deployed on four Trident submarines. The U.S. Navy has converted these submarines to carry non-nuclear cruise missiles, but, because it did not remove the launch tubes for the Trident missiles, they still count under START as if each launch tube held one missile and each missile carried either six or eight warheads.
To bring its totals down to between 1,500 and 1,675 warheads, while using definitions and counting rules similar to those in START, the United States could seek to deploy each of its remaining Trident missiles with a smaller number of warheads. However, if START rules apply, a reduction of more than 2 warheads would necessitate the costly replacement of the platform on the post-boost vehicle on each missile. The United States could suggest that the new Treaty relax this rule, but Russia may object as it has been concerned about the U.S. ability to upload its missiles and increase its warheads in a crisis. Russia has long suggested that the parties tighten the downloading rules to minimize the possibility. Or the parties could seek to develop new rules to count and account for the warheads carried on ballistic missiles.

As an alternative, the United States could reduce its total warheads by eliminating some of its deployed launchers (bombers, ICBMs, or SLBMs), or even removing one leg of its “strategic triad” from the nuclear force. However, the United States probably would not want to reduce the number of B-52 and B-2 bombers, as these fly conventional missions in ongoing conflicts, so it might have to remove them from the nuclear force altogether. It also might be difficult to reduce the Minuteman fleet of ICBMs below the current number of 450 without also reducing the number of bases and cutting into the number of personnel trained to operate the system. Further, as the number drops, it may be also be difficult to justify the costs associated with retaining the smaller force.

Most experts agree that the Trident submarines are going to be the mainstay of the U.S. nuclear arsenal in the future. But, unless the United States cuts deeply into the other “legs” of its strategic triad, deep reductions in total warheads may require reductions in the number of Trident submarines. If the United States were to reduce its Trident fleet to 10 or fewer submarines, it might not be able to operate out of two bases, as it does now, and retain submarines on patrol in the areas from where they would fire their missiles, in both oceans. Changes in this deployment pattern might require changes in the missions and targets of the submarine fleet. The President and the U.S. military would probably want to consider the implications of these basing and operational changes before deciding whether to accept arms control limits that produce such changes.

Hence, if the United States agrees to replace START with a new Treaty that reduces warheads below the levels in the Moscow Treaty but retains many of the definitions and counting rules of START, it will have to make difficult choices about how to structure and operate its nuclear force. These decisions are not likely to come easily or quickly, and could delay both the start and the finish of negotiations on a new Treaty. As an alternative, the two sides could, as discussed earlier, adopt new definitions, counting rules, and elimination rules, so that many of the weapons covered by START but not counted under the Moscow Treaty could be excluded from the new Treaty.

Further Reductions Without START Rules

The complexities detailed above demonstrate why the Bush Administration was unwilling to follow START with a similar, detailed document. Even those in the Administration who believed that the U.S.-Russian arms control process should continue argued that the two sides should pursue a Treaty that did not contain the level of detail in START. For example, during a speech before the Carnegie Endowment for International Peace in October 2008, Secretary of Defense Robert Gates said, “I am not sure that agreements that are the size of a telephone book and take years to negotiate are in the interest of either party.” He went on to say, “I believe we should go for another agreement with Russia. I believe it could involve further cuts in the number of warheads. I believe we do need the verification provisions. But I think it ought to be an
agreement that is shorter, simpler, and easier to adjust to real-world conditions than most of the arms control agreements I’ve seen over the last 40 years.”74

A shorter, less detailed Treaty may not, however, provide the level of transparency or predictability sought by many analysts. Under the Moscow Treaty, which is short and contains few details, neither the United States nor Russia has to offer any transparency into the structure of its nuclear forces. Each simply has to declare how many warheads it has deployed on its operational forces. Further, because the Treaty includes no time lines for the reduction process and no definitions of the items limited by the Treaty, neither side can predict with confidence the process or outcome of the other side’s reductions. As a result, some argue that, while the shorter negotiations may seem preferable, a shorter Treaty with an absence of details would not necessarily serve the goals of an arms control process that sought to strengthen the relationship between the United States and Russia or to reduce the perceived threats from their nuclear weapons.

Transparency and Confidence Building Measures

Some Members of Congress and analysts outside government have called on the United States and Russia to extend the monitoring regime in START, even if they cannot reach agreement on further reductions in nuclear forces. In a “Dear Colleague” letter circulated in July 2007, Representative Ellen Tauscher, Chair of the House Armed Services Committee, Subcommittee on Strategic Forces, noted the “transparency required by the START verification regime has bred confidence in both Russia and the U.S. enabling cooperation on a range of nuclear arms issues.”75 As was noted above, Secretary of State Clinton and Vice President Biden both referred to the possibility of extending the monitoring and verification provisions in START.

An agreement that established a transparency regime without imposing any further reductions on nuclear weapons could allow the United States and Russia to sustain their confidence in their knowledge of each other’s nuclear weapons deployments. The START regime’s extensive exchanges of data about the characteristics of each party’s weapons systems provide each party with significant amounts of information that would not have been available, or would have been difficult to acquire, otherwise. The parties can be confident in the accuracy of this data because they have the opportunity to visit the sites and view the weapons themselves. Moreover, START required each party to notify the other when they changed the numbers or locations of strategic systems. Even if the parties have not agreed to limit or reduce their nuclear weapons, they could continue to house their weapons at agreed sites, provide data about their characteristics and capabilities, and provide notifications when they moved them.

Some have also argued that, by continuing to cooperate in monitoring the locations and characteristics of deployed nuclear weapons, the United States and Russia would be better positioned to monitor compliance with the Moscow Treaty. The notifications and data exchanges would continue to inform them about the numbers and locations of missiles and bombers, while on-site visits would give them an opportunity to count the warheads deployed on some missile. These inspections would not, however, provide the parties with an opportunity to calculate all the


75 Representative Ellen Tauscher. *Call on the President to Extend the Most Significant Remaining Arms Control Agreement of Our Time*. July 2007.
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warheads that would count under the Moscow Treaty. Because START inspections were designed to confirm that the number of warheads deployed on a particular missile did not exceed the number declared in the data base, they do not provide a way to count the total number warheads deployed on the entire force. However, by confirming that the deployed warhead number did not exceed the number in the data base, the inspections could provide the parties with some confidence in the number of warheads they might then use in their calculations of deployed warheads across the force.

Choosing a Path

Although the United States and Russia have agreed to negotiate deeper reductions in their nuclear weapons, they still may not be on the same page when it comes to the details of the treaty. They may agree that the Treaty should contain more details than were included in the Moscow Treaty, but they will still have to decide which of START’s counting rules and definitions will continue to apply, whether the new Treaty would ease or tighten the rules governing the downloading of missiles and the deployment of new types of missiles, and which of the Treaty’s monitoring and verification provisions they would continue to implement.76

Because each side would like some of START to continue and some of it to end, both may find it difficult to reach an agreement on the substance of a new treaty that matches their priorities. On the other, if they balance and offset their differing preferences and priorities they may be able to craft a compromise that provides them with more transparency and predictability than the Moscow Treaty, but less precision than the START Treaty.

This report will be updated, as the process moves forward and the two sides decide which path to pursue after START.

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