Meeting the Challenges of the New Nuclear Age: U.S. and Russian Nuclear Concepts, Past and Present

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Challenges of the New Nuclear Era: The Russian Perspective

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In a 2012 newspaper article outlining his platform for the Russian presidential election, Vladimir Putin stated, “We will under no circumstances surrender our strategic deterrent capability, and indeed will in fact strengthen it. . . . As long as the ‘powder’ of our strategic nuclear forces . . . remains dry, nobody will dare launch a large-scale aggression against us.” Putin’s promise is being implemented ambitiously under the 2020 state armament program, which is aimed at deploying about four hundred new strategic ballistic missiles, eight nuclear-powered ballistic missile submarines, and new systems of heavy bombers and air-launched cruise missiles.

But on October 24, 2014, while speaking at a Valdai forum in Sochi at the peak of the Ukrainian crisis, Putin suddenly declared, “The fewer nuclear arms in the world—the better. We are ready for most serious talks on the nuclear disarmament issues, but for serious talks—without double standards.” Three months later, at the session of the Russian Federation Military-Industrial Commission, he warned, “We see other states . . . actively building up and perfecting their military arsenals. . . . We can and must respond to this challenge, but, as I said earlier, without being drawn into an expensive arms race.” Strictly speaking, Russia’s widely advertised strategic program cannot be qualified as an arms race—if only because for the time being no other nation can claim the role of a counterpart to this competition—but undoubtedly it is a massive and expensive, even if one-sided, modernization of the nuclear arsenal.

2. Ibid.
Among many puzzles surrounding President Putin’s foreign and defense policy-making, the ones related to nuclear arms are the most intriguing and crucial in their implications for the new nuclear era of the twenty-first century. The reason behind this is that Russia, together with the United States, possesses more than 90 percent of the world’s nuclear weapons and materials; it is engaged directly or indirectly in many global and regional missile and anti-missile rivalries; and it is involved in all principal talks and regimes of arms control and nonproliferation.

This essay begins with a general overview of the latest official threat perceptions of Moscow. It then analyzes Russian estimates of the principal new challenges affecting strategic relations among states. Finally, the essay turns to Russian-specific thinking about nuclear deterrence, with a particular focus on generic differences with that of the United States.

This last topic has been largely ignored in the open literature in both Russia and the United States. In the West there is a tradition of explaining Russian behavior by projecting Western thinking onto Russian defense planners, which often leads to conclusions about Russia’s threatening character. However, the core of the problem is that Soviet/Russian nuclear mentality has most of the time been largely or totally different from that of the United States and its allies, although those differences and their origins have never been properly understood by either side. This deficiency needs to be corrected; otherwise it may lead to deadlocks in the arms control process and to potentially dangerous collisions in crisis situations.

GENERAL THREAT PERCEPTIONS

The challenges of the nuclear age of the twenty-first century were comprehensively sketched by Robert Legvold, a patriarch of American foreign policy and political science:

An arms control regime in trouble is one thing; the incapacity or unwillingness of the two nuclear superpowers to begin grappling with the dangers posed by this new era—dangers that are far more complex than those of the Cold War era—is quite another. . . . The United States and Russia, in modernizing all three legs of their nuclear triads, have reopened a potential competition between offensive and defensive systems and introduced new destabilizing technologies, such as conventionally armed strategic missiles theoretically capable of striking the other side’s nuclear weapons, thus blurring the firebreak between conventional and nuclear warfare. They are no longer alone. Other duos, in highly volatile relationships, such as India and Pakistan, are pressing ahead with ambitious nuclear programs, aspects of which, such as Pakistan’s extensive short-range missile buildup and doctrine for use, carry great risks. India’s determination to build the world’s
third triad of nuclear delivery vehicles, including advanced generation MIRVed ICBMs, means the country is moving beyond minimum deterrence. It and China, whose own programs are advancing in all of these categories, are headed for a strategic arms competition. This in turn will create an enormously complicated trilateral India-Pakistan-China nuclear relationship, which will in turn intersect with a potentially fraught Russia-U.S.-China nuclear triangle. Superimposed on this maze are trends, including warfare’s new cyber front, threatening traditional notions of nuclear deterrence and creating dangerous ambiguities over conventional military actions that could be read as a prelude to a nuclear attack.5

Russian perceptions of these issues are very different from American ones, as evidenced by the latest versions of the Russian Federation Military Doctrine (MD-2014) and Strategy of National Security (SNS-2015).6 According to the MD-2014 priorities of “military dangers and military threats,” the main external challenges emanate from the buildup of NATO military power, the globalization of its functions, the extension of its membership and military infrastructure toward Russian borders, and the deployment of foreign armed forces in the territories bordering Russia and its allies. The challenges also include the development and deployment of strategic missile defense systems, the implementation of the concept of “global strike,” plans for weapons deployment in space, the development of high-precision strategic nonnuclear arms, and the territorial claims on Russia and its allies (points 1–5).

After these challenges there is a reference to the threats that have been the main priority of the West since the end of the Cold War, at least until the Ukrainian crisis: proliferation of the weapons of mass destruction, missiles, and missile technologies (point 6); and international extremism, terrorism, transborder crime, and terrorist acts with the use of radioactive and chemical materials (point 10). In between and without elaboration, MD-2014 refers to the violation by some states of international agreements and noncompliance with earlier concluded agreements on arms prohibition, limitation, and reduction (point 7).

In listing priority threats facing Russia, the SNS-2015 does not differ from the MD-2014 in any significant way. Nonetheless there are several notable features that reflect Moscow’s contemporary security priorities. One is the significant increase of domestic political concerns, which obviously follows from the 2011–2012 scare of mass protests in large Russian cities and the Ukrainian revolt of 2013–2014. These threats are seen as emanating from foreign intel-

5. Robert Legvold, Return to Cold War (Malden, Mass.: Polity Press, 2016), 132. MIRVed ICBMs are multiple independently targetable reentry vehicle (MIRV) intercontinental ballistic missiles (ICBMs).

ligence and public organizations’ subversive activities, information warfare “aimed at violent change of the constitutional state, destabilization of domestic political and social situation, and disorganization of the functioning of state power agencies, important state military sites, and information infrastructure.”

In contrast to Legvold’s panorama, commonly accepted in the West, the threats emanating from the states’ nuclear arms—traditionally the first Cold War priority—are absent, as well as the dangers associated with a nuclear arms race. The same is true of the threat of nuclear war by technical failure, political/strategic miscalculation in a crisis, or escalation of a local conventional conflict to a local or global nuclear war. Russian military and political thinking largely ignores the possibility of an outbreak of a war as the result of the uncontrolled escalation of a military action-reaction sequence. One of the few exceptions is a paragraph in the Foreign Policy Concept of the Russian Federation adopted in November 2016, but in stating such a possibility it does not specify in which region or between what nations such escalation might happen. In particular, there is no mention of such dangers in Ukraine, South Asia, the Middle East, or the Far East.7

Whenever nuclear arms are mentioned (other than in the context of proliferation), they are presented in a highly positive way: “Nuclear weapons will remain an important factor of prevention of nuclear military conflicts and military conflicts with the employment of conventional strike systems (in large-scale and regional wars).” The most striking recent statement on the subject portraying nuclear weapons in a totally idealistic manner came from Putin in his remarks to the Valdai Club in October 2016: “Nuclear arms are a factor of deterrence and a factor providing for peace and security in the whole world. . . . It should not be considered as a factor of aggression.”8

The danger of nuclear weapons surfaces sporadically and only indirectly in the Russian official position, for example, in reference to the planned deployment of U.S. Aegis Ashore ballistic missile defense (BMD) interceptors in Romania and Poland, which allegedly may be replaced in their launchers by nuclear Tomahawk cruise missiles. (This implies either denial or ignorance of the fact that nuclear submarine-launched cruise missiles [SLCMs] were removed from service and dismantled beginning in 2012.)9

As for nuclear arms control, the only point mentioned is “compliance by the Russian Federation with international treaties on reduction and limitation of missile-nuclear arms.” No follow-on steps are envisioned, except for the conclusion of a treaty on nondeployment of arms in outer space and the elabo-

ration of a control mechanism for the bacteriological weapons convention. This impression is strengthened by another point (number 101) that addresses the prospects of the Strategic Arms Reduction Treaty (START) Follow-on: “In its relationship with the international community the Russian Federation is relying on the principles of preserving stability and predictability in the area of strategic offensive arms. The practical realization of such relationships is facilitated by compliance with the achieved agreements on the reduction and limitation of strategic offensive arms and the elaboration, if needed, of new agreements in this area.”\(^{10}\) Other nuclear arms states are mentioned cautiously: “The Russian Federation is promoting the involvement of other states, first of all those possessing nuclear weapons, and those interested in the joint effort to provide for common security in the process of providing for strategic stability” (point number 102).

Lastly, the threat of cyberwarfare and terrorism, which is very much in the center of attention in the West, is at the periphery of Russian security concerns. Because of the fear of “color” revolutions, the primary alarm is associated with the information warfare’s influence on domestic politics, not with cyberattacks on strategic C3I systems (Communications, Command, and Intelligence) that could provoke an inadvertent nuclear exchange between great powers. The MD-2014 document states as a security requirement “the creation of conditions, providing for reducing the risks of the use of information and communication technologies for military-political goals . . . directed against the sovereignty, political independence, territorial integrity of states.”\(^{11}\) It is a historic irony that after the U.S. presidential election of 2016 this type of informational subversion has become the major American national security concern, as if borrowing from Russian official threat perceptions of previous years.

As for Russian nonofficial or quasi-official views, the conservative and right-wing majority of military and civilian experts flatly reject any further nuclear arms control, openly question the value of the Intermediate-Range Nuclear Forces (INF) Treaty, and go as far as to advocate withdrawal from the New START, the Comprehensive Nuclear-Test-Ban Treaty (CTBT), and even the Nuclear Nonproliferation Treaty (NPT).\(^{12}\) In the recent writings of strategic experts from think tanks affiliated with the Russian Ministry of Defense or directly functioning in its domain, some new concepts have emerged that provide serious reasons for concern. For example, Konstantin Sivkov, one of the most prolific authors on strategic matters, claimed that after the deep reductions of nuclear arms since 1989, an all-out nuclear war between the United States and Russia would not be a global catastrophe—entailing an aggregate explosion of “only” fifty to sixty megatons, which would constitute less than half of

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the Krakatau volcano eruption (1883) or just one Soviet super-bomb test over Novaia Zemlia (1961).13

Another novelty is promoted in relation to a possibility of limited use of Russian strategic nuclear arms as a response to NATO conventional airspace attacks (analogous to scaled-up campaigns against Yugoslavia in 1999 or Iraq in 2003). In particular, a group of military experts from one of the Russian Ministry of Defense institutes wrote:

The main peculiarity is the limited nature of the initial nuclear impact, which is designed not to embitter, but to sober the aggressor, making it stop the attack and get down to negotiations. In the absence of such reaction it is envisioned to escalate the massiveness of nuclear weapons employment in numbers and yield. Hence, it is assumed that the first nuclear use by the Russian Federation is limited. The opponent’s reaction is calculated both as a massive and as a limited nuclear strike. The second in our view looks more probable. After all it was the United States where the concept of a limited nuclear war was born.14

A liberal minority of the strategic community advocates negotiations on the START Follow-on, confidence-building measures, and eventual joint development of BMD systems, abandoning hair-trigger alert postures of strategic forces and limitation of advanced long-range conventional arms and tactical nuclear weapons.15 However, the sheer number of hawkish publications and television statements (allegedly with tacit approval from the top) drowns out such opinions and professional estimates.

STRATEGIC THREAT ASSESSMENTS

In Moscow the main threat is perceived as coming from the U.S. deployment of a global BMD system with regional segments in the Euro-Atlantic and Asia-Pacific regions. Despite Russian objections, the United States has refused either to consider a joint anti-missile system or to accept “legally binding commitments” (implying technical limitations) guaranteeing the system will not be aimed at intercepting Russian missile forces.

The plans announced by the United States in 2013 are well known. The deal on Iranian nuclear activities concluded in July 2015 has not addressed Tehran’s missile program, and hence the U.S./NATO BMD deployment plan has not been curtailed. This provoked Moscow’s self-righteous indignation, expressed by Putin at a Valdai forum in Sochi in 2015:

Under the pretext of a nuclear-missile threat of Iran, as we know, the foundation of contemporary international security was destroyed—the Anti-Ballistic Missile Treaty. The U.S. unilaterally withdrew from it. By the way today the Iranian nuclear problem has been resolved. . . . The reason that had allegedly caused our American partners to build a ballistic missile defense system has disappeared. We might expect that the work on the U.S. BMD would stop. But what do we see in reality? Nothing like that happens; on the contrary—everything goes on. . . . We and the whole world have been misled. To put it bluntly—we were deceived.17

In this regard, the analysis by U.S. and Russian experts of U.S. missile defense system capabilities in Europe has provided ample evidence of meager capabilities of this system against Russian strategic forces. There is no doubt that Russian intercontinental ballistic missiles (ICBMs) and submarine-launched ballistic missiles (SLBMs) are sufficiently numerous, survivable, and equipped with effective BMD penetration aids.

It is impossible to know for sure whether the Russian political leadership sincerely believes in the threat from the BMD system of the United States and its allies in Europe and the Pacific. Virtually all retired military and civilian professionals agree that present and projected Western anti-missile defenses are unable to weaken the Russian strategic nuclear capability. It is possible to assume, however, that currently serving military commanders are trying to adjust their estimates to what they assume are the perceptions of the political

16. The United States planned to deploy midcourse ground-based interceptors (MGBI)—long-range strategic antiballistic missiles in Alaska and California designed against single or limited intercontinental ballistic missile (ICBM) attacks against the United States from Iran, North Korea, or other potential rogue states. The MGBI are supplemented by the theater deployments: in particular, by Standard Missile-3 (SM-3) Block-IA on ships in the Mediterranean Sea; by enhanced capability SM-3 Block-1B interceptors in Romania; and by a planned modernized version of the SM-3 Block-IIA interceptor and its ground-based equivalent in Poland and on ships in northern European seas. These will defend European allies against a limited strike with intermediate-range ballistic missiles.


leadership, and they dare not risk their careers by presenting dissenting views—in particular when those views would look similar to U.S. official positions.

Be that as it may, the problem is seriously complicated by the open-ended nature of the U.S. BMD program and the American rejection of any possible technical limitations on this program. It is likely such limits could be easily agreed upon, since the threat posed by the few missiles possessed by so-called rogue states requires a very different defense system from that directed against a Russian (or even Chinese) massive missile attack. Although most American experts deny any serious effect of the U.S. defense system on Russia’s retaliatory capability, there are a few exceptions to this assessment.20

The Russian response to what it sees as the primary challenge in the new nuclear era is multiple: new nuclear ballistic and cruise missiles are provided with advanced BMD penetration aids or are designed to directly attack missile defense sites. In particular, this mission is assigned to the new heavy ICBM type called “Sarmat,” currently in the development and testing stage. Before or soon after 2020 Sarmat is supposed to replace the silo-based SS-18 heavy missiles and will be equipped with state-of-the-art penetration aids, possibly with gliding, hypersonic reentry vehicles. As an exotic option the missiles may be targeted around Antarctica to attack the United States from the southern azimuths, i.e., making them fractionally orbiting missiles.21 Other systems for this purpose are the newly deployed “Rubezh” ICBM with variable MIRV/single warhead payload (SS-27 Mod 3), which was tested at long and medium ranges, and “Iskander” shorter-range ballistic and cruise missiles, which allegedly will target U.S. Aegis Ashore Standard Missile-3 (SM-3) interceptor sites in Romania and Poland. The newly commissioned 955-class “Borei”-type submarines equipped with new “Bulava-30” SLBMs (SS-N-32) as the SS-27 Mod 2 “Yars” ICBMs can fly at a depressed trajectory to avoid space-based BMD elements. In June 2015, Putin declared, “During this year more than 40 new intercontinental ballistic missiles will be added to nuclear forces, which will be able to overcome even most technically sophisticated anti-ballistic missile systems.”22

In parallel to offensive systems, Russia is developing an anti-missile defense of its own. In 2011, Russia created the Air-Space Defense armed service and began building a multilayered defense system intended to integrate missile, air, and anti-satellite defenses “in the same bundle,” to use Putin’s descript-


In 2015, it was integrated with the Air Force to form a new armed service—Air-Space Force. Apart from aircraft, its defensive leg consists of new missile early-warning radars and satellites, a command-and-control complex, and an A-135 BMD system around Moscow, modernized (and renamed A-235) for terminal nonnuclear intercept. The Air-Space systems development and deployment is the largest single component of the 2020 state armament program, comprising 20 percent of the twenty-three trillion rubles (U.S. $350 billion) allocated to it.

In contrast to the U.S./NATO system, Russian Air-Space Defense has never been officially designed against rogue states’ ballistic missiles or against third-party nuclear states. Its declared purpose is to defend Russia against U.S. advanced “air-space attack systems." In June 2013, while visiting a surface-to-air missile (SAM) manufacturing plant, Putin said, “An efficient Air-Space Defense is a guarantee of survivability of our strategic deterrent force and of defense of the territory against air-space attack means.” Although the term “air-space attack means” remains unclear, it is obvious that no other power besides the United States may threaten the survivability of Russian strategic forces.

Whereas BMD systems in the past were the monopoly of only the United States and the USSR, the new development of the emerging nuclear age is the proliferation of these systems to other countries. Presently, besides the two leading powers, anti-missile systems or their elements are being developed and deployed individually or in cooperation by NATO states, Israel, Pakistan, India, China, Taiwan, South Korea, Japan, and Australia. This development may complicate regional military balances, and its future effect is uncertain. For Russia this trend has not been of particular concern, with the exception of sharp opposition to the cases of NATO, Japan, and South Korea deployments, which are considered U.S. forward-based systems aimed at intercepting Russian deterrence missile forces.

Whether objections to Western anti-missile programs are motivated by strategic or political considerations, this issue officially remains the principal stumbling block to the New START Follow-on, as it was once again reconfirmed in Moscow’s negative response to Washington’s proposals of early February.

2016 to reduce nuclear forces by about 30 percent (down to one thousand warheads).  

After the BMD program, the second priority threat of the new nuclear age, as seen from Moscow, also emanates from the United States: namely, precision-guided long-range conventional strike systems, relying on advanced command-control-information systems, many of which are based in space. Presently such systems are predominantly conventional long-range subsonic missiles of air- and sea-basing modes. In the foreseeable future supersonic cruise missiles and hypersonic boost-glide weapons with homing conventional warheads may be developed.

In his 2014 speech to the Valdai Discussion Club, President Putin described the basis for Moscow’s concern over new weapon systems:

Today, many types of high-precision weaponry are already close to mass-destruction weapons in terms of their capabilities, and in the event of full renunciation of nuclear weapons or a radical reduction in nuclear potential, nations that are leaders in creating and producing high-precision systems will have a clear military advantage. Strategic parity will be disrupted, and this is likely to bring destabilization. The use of a so-called first global disarming strike may become tempting. In short, the risks do not decrease, but intensify.

Vice Prime Minister Dmitry Rogozin—a supervisor and outspoken representative of the military-industrial complex—went as far as to declare (referring to an unknown Pentagon war game) that three to four thousand U.S. high-precision weapons could during six hours destroy 80 to 90 percent of Russian strategic forces “and deprive it of any resistance capability.”

Nonetheless, research by some independent Russian experts demonstrates that, for the foreseeable future, the threat posed by U.S. long-range high-precision weapon systems has been grossly exaggerated, especially in terms of their capability to implement a preemptive strike against Russian strategic forces. Such a strike would involve lengthy preparations and a long campaign

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28. “Meeting of the Valdai International Discussion Club,” Official Internet Resources of the President of Russia, October 24, 2014.


of repeated massive strikes, lasting days or even weeks. This would greatly increase the likelihood of a nuclear response.

As for the hypersonic boost-glide systems the United States may deploy in the future, their numbers would probably be insufficient for such a massive operation. Besides, Russian strategic nuclear forces may be protected by both passive and active defense systems, which is the purpose of the Russian Air-Space Defense. Attacking Russian supreme command centers with these weapons would hardly be feasible, since they are hardened even against a nuclear blast. However, as dubious as it is, Russian leaders may be seriously concerned about the possibility of a surprise, pinpoint decapitating strike when they are outside of a bunker. This would not entail collateral damage and hypothetically may not be followed by massive nuclear retaliation. This may explain the great emphasis put by the Kremlin on this kind of threat.

Nonetheless Moscow’s anxiety about high-precision nonnuclear systems has relatively more merit than in the case of a BMD system. In particular, new conventional systems may damage strategic stability: their launch is detectable from satellites but cannot be tracked for most of their trajectory by ballistic missile early warning radars, until their very short terminal phase. Thus they may provoke a launch-on-warning by the opponent lacking radar confirmation of the attack, which would increase the threat of war from the satellites’ false alarm. New conventional strategic arms will significantly complicate estimates of the strategic balance and calculations of the sufficiency of deterrent forces, since objectively (technically and operationally) the new systems are blurring the accepted delineation between nuclear and conventional, global and regional, and offensive and defensive weapon systems. They will certainly create even greater problems for future arms control negotiations and could jeopardize the existing INF Treaty as well as the New START. Presently reference to these U.S. systems is one of the official justifications for Moscow’s refusal to proceed with the START Follow-on.

33. Akhmerov et al., “Po-bystromu ne poluchitsya.”
35. Some options for boost-glide systems include using “Standard-3” interceptor stages as boosters.
36. One of the tested boost-glide systems is the U.S. Advanced Hypersonic Weapon (AHW), which is a medium-range missile and may be ground-based, thus impacting the INF Treaty.
Besides countering cruise missiles and boost-glide systems with Air-Space Defense, Moscow is determined to match the United States in these same technologies. The development of Russian hypersonic systems began in the late 1970s and rapidly accelerated in the mid-1980s in response to the U.S. Strategic Defense Initiative (SDI). The first project was called “Albatross” and was based on the SS-19 ICBM, which lifted the gliding vehicle to an altitude of eighty to ninety kilometers, then turned down and accelerated to M5 speed (above 1.6 km/s) toward the target at intercontinental range. Equipped with a nuclear warhead, it was designed to evade all SDI echelons. The first flight tests of this system were conducted in 1991–1992 and repeated in 2001–2004 (when it was renamed Project 4202). Later there was a plan to put this glider on the SS-27 “Topol-M” ICBM, and according to recent information it may be installed as an optional upper stage on the new heavy “Sarmat” ICBM. As with the BMD development, unlike that of the U.S. system, Russian boost-glide arms would be designed not against rogue states or terrorists but against the United States and its allies as an efficient BMD penetrator, and hence would probably carry a nuclear warhead.

Similar to BMD systems, long-range conventional counterforce systems are no longer a U.S. and Russian monopoly. They are being developed by China, India, Pakistan, and probably other states as well. While India and Pakistan are at the early stages of such projects, China is much more advanced, having successfully tested a boost-glide hypersonic WU-14 system in 2014–2015. China also emphasizes medium-range ballistic missiles with precision-guided conventional warheads targeted at U.S. Navy ships (in particular around Taiwan) and American bases on U.S. ally territory.

Russia up to now has not expressed concern over China’s and other states’ projects of this kind. However, the U.S. advanced strategic conventional systems are put forward as a major threat to national security and a barrier to further nuclear arms reductions.

Another challenge of the new age is proliferation of nuclear weapons and their delivery systems—foremost ballistic missiles. As was mentioned above,
compared to the United States this threat is much lower on the Russian agenda, if only because the perceived dangers emanating from NATO are a higher priority. Nonetheless, this threat figures much more prominently in Moscow’s attitude to the INF Treaty, now the subject of mutual U.S.-Russian accusations of noncompliance. While denying American accusations, Russia is challenging the value of the treaty, which prohibits deployments of land-based ballistic and cruise missiles with longer than a five-hundred-kilometer range. Some claim medium-range missiles may be Russia’s answer to the NATO European missile defense program because of their capability of hitting anti-missile defense sites.

Another argument focuses on the threat of third countries’ intermediate-range missiles, weapons denied Russia and the United States by the INF Treaty. Putin made the point in his famous Munich speech of 2007 and so did the then-minister of defense, Sergei Ivanov, who again mentioned it in 2012 in his new position as the head of presidential administration. In fact, opponents of the treaty argue Russia should follow the U.S. example in view of the missile threats of third states and withdraw from the INF Treaty, just like the United States did regarding the ABM Treaty in 2002.

Besides the perceived threat of third states’ medium-range missiles, Russia in general is concerned about the other seven nuclear weapons countries. This concern is reflected in the Russian attitude toward the New START Follow-on, and it has become an integral part of Russia’s official foreign policy documents. In particular, this demand was repeated in Moscow’s February 7, 2016, response to the U.S. proposal to resume talks on further nuclear arms reductions.

However, there has been no official Russian proposal on either the sequence of engaging third nuclear states in the process or on the conceptual basis for multilateral limitations on nuclear arms (parity, stability, proportionality, or quotas), their subject (classes and types of arms), or verification requirements and possibilities. In contrast to the United States, the Russian priority in capping third states’ forces is not North Korea or China but Britain, France, and Pakistan—while its position is mute on India and Israel. It appears the demand

44. In particular, Washington accuses Moscow of testing the ground-based cruise missile on an “Iskander” launcher with a range of over five hundred kilometers, which is prohibited by the INF Treaty. Russia claims that the U.S. deployment of SM-3 BMD interceptors in Romania and Poland is a violation of the treaty. These weapons are presently deployed on U.S. surface ships in the universal Mark 41 tube-launchers that also house Tomahawk long-range SLCMs. The INF Treaty prohibits deployment of land-based cruise missile launchers.


47. They are Britain, France, Israel, Pakistan, India, China, and North Korea.

for multilateral nuclear arms control, even if sincere, presently serves more as a pretext for keeping strategic talks with the United States frozen.

THE NUCLEAR DIMENSION OF THE UKRAINIAN CRISIS

Even before the Ukrainian crisis, Russia had elevated the role of nuclear weapons in preventing “a large-scale aggression.” The Ukrainian drama has raised tensions to levels that seemed unthinkable only a short time ago. In August 2014, at the height of the Ukrainian crisis, the Russian president said in an interview: “Our partners, regardless of the situations in their countries or their foreign policies, should always keep in mind that Russia is not to be messed with. I want to remind you that Russia is one of the largest nuclear powers. This is reality, not just words; moreover, we are strengthening our nuclear deterrence forces.”

Many independent analysts expounded on this statement and proposed complementing the official Military Doctrine with ideas for “selective use” of nuclear weapons for “show of resolve” and the “de-escalation of conflict.” These views might be brushed aside as “armchair strategist” fantasies if they did not draw on past official documents that presented such options as part of actual operational planning. In 2003, they were largely ignored: a NATO-Russian war seemed unthinkable. But in 2014–2015 they were revived in Russia and abroad.

Such declarations predictably received a tough response from the West. U.S. Deputy Secretary of Defense Robert Work said in the House of Representatives in 2015 that Moscow’s effort to use its nuclear forces to intimidate its neighbors had failed, actually bringing NATO allies closer: “Anyone who thinks they can control escalation through the use of nuclear weapons is literally playing with fire. . . . Escalation is escalation, and nuclear use would be the ultimate escalation.”

It is noteworthy the 2014 version of the Russian Military Doctrine retained the restrained wording of the former doctrine: “The Russian Federation reserves the right to use nuclear weapons in response to the use of nuclear and other

49. Putin, “Byt’ sil’nymi.”
types of weapons of mass destruction against it and (or) its allies, and also in
the event of aggression against the Russian Federation involving the use of
conventional weapons when the very existence of the state is under threat.”

Incidentally the official Russian strategic concept has only two differences
from the U.S. nuclear posture of 2010. One is that America is apparently
willing to defend its allies with the use of nuclear weapons if they are attacked
by overwhelming conventional forces, whereas Russia does not provide such
assurance. The other is Russia’s readiness to use nuclear arms if facing the pros-
pect of defeat by large-scale conventional aggression, while the United States
for obvious reasons does not envision such a contingency.

Nonetheless, Russian declarations have produced a shock. As early as 2013
President Barack Obama accused Putin of anti-American rhetoric that has
played into “old stereotypes about the Cold War.” Later U.S. Secretary of
Defense Ashton Carter was much harsher in responding to the Kremlin’s dec-
larations: “Nuclear weapons are not something that should be the subject of
loose rhetoric.” Carter said there was “no need” for Putin to make that point,
since Russia’s nuclear capabilities are long established. NATO Secretary Gen-
eral Jens Stoltenberg echoed that concern: “Russia’s nuclear saber-rattling is
unjustified, destabilizing and dangerous.”

It should be noted that as menacing as they looked, Russian statements
from 2013–2015 have not transgressed the boundaries of “nuclear deterrence”: there were no direct threats of actually using nuclear weapons. This rhetoric was
shocking to the West, because it erupted all of a sudden after a quarter century
of an unprecedented relaxation of East-West political relations.

The real problem is not the U.S./NATO nuclear deterrence posture versus
a Russian nuclear war–fighting stance. It is a much more complex issue related
to Moscow’s specific way of dealing with nuclear deterrence, which stems from
the Russian historic experience, political system, and decision-making mecha-
nism, as well as geostrategic position and technological development.

www.defense.gov/Portals/1/features/defenseReviews/NPR/2010_Nuclear_Posture_Review
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57. Margaret Brennan, “Carter Laments Putin’s ‘Loose Rhetoric’ on Nukes,” CBS News, June 22,
missiles-nato/.
58. “Nato Chief Says Russian Nuclear Threats Are ‘Deeply Troubling and Dangerous,’” Guardian,
-russian-nuclear-threats-are-deeply-troubling-and-dangerous.
RUSSIAN NUCLEAR MENTALITY

According to the Russian Military Doctrine of 2014, the main task of the national strategic force is “strategic (nuclear and nonnuclear) deterrence and the prevention of military conflicts.” This may be achieved by “maintaining the composition, state of combat readiness and preparedness of strategic nuclear forces, and by forces and means supporting their functioning and employment, as well as by command systems at a level guaranteeing the infliction of unacceptable damage on an aggressor under any conditions of the situation.”

It should be acknowledged that the contemporary U.S. nuclear posture is not much more specific—in contrast to the Cold War years when American doctrines were presented in great detail and closely correlated with force levels and weapons programs. This is precisely the time from which the principal difference in Russian and American nuclear mentality stems.

Only by the end of the 1950s, following fifteen years of nuclear weapons stockpiling and strategic thinking, and as a result of the Soviet Union developing intercontinental nuclear weapons capable of reaching U.S. territory, did the concept of deterrence come to the foreground of American military strategy. The political leadership in the United States grudgingly recognized that nuclear weapons were too dangerous for actual military use.

The chief theoretician and practitioner of this strategy was Secretary of Defense Robert McNamara, appointed in 1961, and aided by his assistants, who were referred to as the “whiz kids”: Harold Brown, Alain Enthoven, Daniel Ellsberg, Glenn Kent, Paul Nitze, Henry Rowen, Herbert York, and others. During the 1960s, after exploring a series of concepts (“counterforce,” “damage limitation”), the U.S. nuclear strategy firmly settled on the concept of “assured destruction.” It envisioned maintaining strategic forces capable of surviving an opponent’s nuclear strike in sufficient numbers to cause the enemy unacceptable damage in a retaliatory strike (which was set to be an immediate destruction of up to 70 percent of the adversary’s industrial potential and 25 percent of its population). This was an ultimate version of nuclear deterrence, although it coexisted with war planning that was not fully reflective of the official strategic doctrine (this issue is addressed in more detail below). Nevertheless, official doctrine reflected the basic ideas underpinning Washington’s new approach to strategic deterrence, the development of its forces, and the principles for their deployment and employment.

In his famous 1967 speech in San Francisco, McNamara stated that deterrence of a “deliberate nuclear attack” upon the United States or its allies is ensured by maintaining a highly reliable ability “to inflict an unacceptable degree of damage upon any single aggressor or combination of aggressors, at

any time during the course of a strategic nuclear exchange, even after absorbing a surprise first strike.” At the same time McNamara acknowledged that “the blunt, inescapable fact remains that the Soviet Union could still—with its present forces—effectively destroy the United States, even after absorbing the full weight of an American first strike.”

Such a statement was unthinkable on the part of any high Soviet official of that time—and actually remains unimaginable in today’s Russia, half a century later. At the same time, from 1968 to 2010 McNamara’s historically important assessment remained the foundation for the concepts of mutual deterrence, strategic stability, and arms control treaties.

The Soviet Union arrived at similar conclusions about nuclear war much later—even at the declaratory level, to say nothing of military planning or arms programs. Initially the fundamental assumption of Soviet grand military doctrine had been that if a global war was unleashed by the West, the Soviet Union would defeat the enemy and achieve victory, despite enormous ensuing damage. Only during the 1970s did the USSR start to change its official declaratory position on the subject and gradually accept the idea of the impossibility of victory in a nuclear war because of its unprecedented destructive consequences. The most important factor shaping this change was the start of strategic negotiations with the United States.

The first major difference thus in the nuclear mentality of Russia and the United States is the historical origins of that nuclear mentality. In America the new thinking on nuclear matters was the product of McNamara’s efforts at securing political control over nuclear strategy, arms, and war plans—once the U.S. homeland came under the threat of a catastrophic nuclear war. His innovations subsequently led to the concepts of mutual deterrence, sufficiency, and parity of forces as well as joint strategic arms limitation. It cannot be emphasized too much that in the Soviet Union the “new look” at nuclear war was foremost the product of arms control.

The strategic concepts of Moscow and Washington were fundamentally incompatible during the 1950s and most of the 1960s. During the 1970s they edged closer through a recognition of parity and the destabilizing effect of anti-missile defenses, reflected in the ABM Treaty, SALT I in 1972, and SALT II in 1979. Those treaties could not be justified without acknowledging the impossibility of victory in a global war, which implied a revolution in the Soviet declaratory military ideology (and thus met with tough resistance from the top brass in the Ministry of Defense).

In the first half of the 1980s the two states again drifted far apart in their nuclear outlook. Political tensions were related to the Soviet invasion of Afghanistan. The strategic context was determined by U.S. plans for SDI development and testing, the deployment of medium-range missiles in Europe, and a long impasse at arms limitation talks. But by the end of the decade strategic mentality

on both sides again drew closer due to Mikhail Gorbachev’s “new thinking” and the conclusion of the INF Treaty and START I. During the 1990s the strategic concepts of the United States and Russia continued to converge and became quite compatible by 2010 as reflected in START II (1993), START III framework agreement (1997), Strategic Offensive Reductions Treaty (SORT, 2002), and the New START (2010). After that they again diverged, and presently, after a six-year hiatus, are as wide apart as in the early 1980s. Thus the correlation between arms control and the evolution of Soviet and Russian strategic thinking is unmistakable.

The second difference between the two countries is the widely accepted idea on the Russian side that deterrence works in peacetime, but if deterrence fails, the task of the armed forces is to implement assigned missions as massively and effectively as possible. A hint of this traditional way of thinking emerged from Putin’s speech at the Valdai forum of 2015, when he said: “I learned one rule on the streets of Leningrad fifty years ago—if a fight is inevitable, strike first.”

The fact that in a nuclear age force posture and military planning (basically preparation for prompt and massive first attacks) may make war more likely and lead to a failure of deterrence has never been accepted in Russia. The military has traditionally relied on the political leadership to decide on the initiation of war, while politicians have delegated to the military full authority in planning combat operations once a war starts.

In the United States since the late 1960s efforts have been made to design operational plans (whether they were realistic or not) to avoid attacking command-control bunkers and urban-industrial centers as long as possible, even after the beginning of nuclear war, in order to preserve a chance of averting total mutual destruction. From the Russian perspective (at least as conceived until the early 2000s), once “the war starts” forces are to be employed massively against all available targets to inflict maximum damage on the enemy. Any argument about the catastrophic consequences from U.S. retaliation with surviving forces is denied by insisting that nuclear war is not a game played by rules and that the blame for the consequences would be on the other side. Russia’s generic world war experience is that of the massive devastation of its territory, while the United States has been able to preserve its territory virtually intact.

Because its most traumatic memory is of the catastrophic German attack of June 1941, a commonly accepted notion in Moscow is that political intentions, not force posture, determine the probability and forms of war initiation. In the United States there is a common view that force deployments and operational planning affect the probability of war. This idea is based on the classic case of

62. “Meeting of the Valdai International Discussion Club,” Official Internet Resources of the President of Russia, October 22, 2015.

63. This pattern was changed by Presidential Directive 59 (PD-59), signed by President James Carter in July 1980, which stipulated attacks against Soviet sites of state political and military leadership.
World War I, which was triggered by German railway schedules. McNamara’s notion of strategic stability, in similar fashion, grew out of his reflections on the Cuban Missile Crisis, which deeply affected his views of the danger of inadvertent nuclear war.

The third difference is that, despite signing the U.S.-Soviet declaration on strategic stability in 1990, the Russian understanding of stable nuclear deterrence does not necessarily fit under McNamara’s model of stability on the basis of mutual assured second strike destruction (i.e., the infliction of unacceptable damage). In 1990, stability was defined as a strategic relationship that was to serve as a basis for agreements limiting the arms race by “removing incentives for a nuclear first strike.” This was to be achieved through a mutually acceptable “relationship between strategic offensive and defensive arms,” and by “reducing the concentration of warheads on strategic delivery vehicles, and giving priority to highly survivable systems.” This concept later deeply affected the START I and START II provisions.

Nonetheless this logic was only superficially accepted at top Russian state and diplomatic levels, and was never consistently incorporated into military programs. Factoring in a weapon system’s suitability for a first or second strike (i.e., survivability, flight time, hard-target-kill capability, etc.) has never been accepted in the Soviet strategy and most probably is not recognized today.

For the sake of objective analysis, it should be underlined that in contrast to McNamara’s declaratory doctrine of “assured destruction” and the concept of strategic stability stemming from it, actual U.S. war plans emphasized attacking Soviet strategic forces and other military sites before hitting urban-industrial centers, which implied first rather than second strike. The strategic target list was expanded to six thousand sites. The Joint Chiefs of Staff approved the Single Integrated Operational Plan (SIOP)-63 in December 1961. Despite the evolution of the strategic doctrine, the actual plans for using U.S. nuclear forces changed very little: a final McNamara SIOP, adopted in February 1967, included the same basic versions of nuclear attacks as SIOP-63. The target list was expanded to ten thousand sites, adding the newly constructed Soviet, Warsaw Pact, and most probably Chinese military and industrial sites.

During the 1970s and 1980s counterforce and hard-target-kill planning and technical capability was an important, even if variable, element of the U.S. nuclear posture. It was justified as a counter to the Soviet counterforce capability, instrument of damage limitation (if deterrence fails), arms control bargaining chip, and strategic assurance to NATO allies, which depended on U.S. security guarantees implying nuclear first-use options in Europe. Still, first

64. According to its General Staff plan, Germany had to attack France without delay, since its military transportation plans envisioned quick victory over France to permit timely troop redeployment against Russia, which took a longer time to mobilize for war.


strike implications of counterforce strategy have been a touchy and confusing subject in the U.S. defense policy, which once again stirred heated debates in Congress and the strategic community and affected weapon programs decisions in the Department of Defense during the two decades after McNamara’s “strategic reformation.”

Nothing of the kind took place in the USSR or Russia. The benefit of attacking strategic forces of the opponent was never put in doubt and such capability was to be enhanced within the limits of technology and the budget. Counterforce weapon systems and their employment planning were not considered an indispensable attribute of a first-strike posture (at least from the Soviet/Russian side). Counterforce attacks were to be conducted in parallel to strikes against opponents’ command-control sites and urban-industrial targets.

At the same time, when directed by politically motivated decisions of state authorities, the Russian military had to sacrifice counterforce capabilities for the sake of reaching arms control agreements. This was the case with START I’s 50 percent reduction of heavy ICBMs and still more under START II, which provided for the elimination of all MIRVed land-based missiles and, after seven years of debates, was ratified by the State Duma in 2000 under the rule by newly elected President Putin. This is yet another example of the unique role of arms control for Moscow’s strategic policy, which does not have historic analogies like the United States. It is also one of the reasons why arms control and past treaties are so unpopular in present-day Russia and commonly perceived as unilateral concessions designed to placate U.S. leaders since the time of Gorbachev.

The fourth difference between the two sides is that Russia rejects the likelihood that its nuclear forces and programs may be perceived as a threat by the other side, provoking an arms buildup in response. Secretary McNamara elaborated on this philosophy in 1967: “Whatever be their intentions, whatever be our intentions, actions—or even realistically possible actions—on either side relating to the buildup of nuclear forces, be they either offensive or defensive forces, necessarily trigger reactions on the other side. It is precisely this action-reaction phenomenon that fuels the arms race.” To escape from this sinister closed circle, the secretary advanced the idea of negotiations between the great powers: “We do not want a nuclear arms race with the Soviet Union—primarily because the action-reaction phenomenon makes it foolish and futile. . . . Both of our nations would benefit from a properly safeguarded agreement: first to limit, and later to reduce, both our offensive and defensive strategic nuclear forces. . . . We believe such an agreement is fully feasible, since it is clearly in both our nations’ interests.”67

In Moscow the argument that enlarging offensive potential could cast doubt upon “peaceful” Soviet (or Russian) policy and impel the other side to undertake countermeasures was and still would be considered a heresy. Until the late 1960s expressing such thoughts could cost individuals their freedom, and even through the early 1980s it could result in drastic career consequences.

As for practical defense policy there were indeed some historic examples of deliberate U.S. self-constraint in order to avoid creating too high a threat to Soviet (Russian) strategic forces and provoking an excessive response in weapons deployment programs or employment strategy. In the mid-1970s a decision was made to equip 300 rather than all 550 “Minuteman III” ICBMs with the improved, counterforce high-yield accuracy W-78/Mk-12A warheads. Thus in 1980–1983 this prompt counterforce potential consisted of 900 rather than 1,650 warheads, and provided a smaller hard-target-kill capability against Soviet land-based missiles than otherwise could be the case.

There are no examples of comparable restraint in Soviet/Russian nuclear arms procurement and deployment decisions, except as part of arms control treaties.

A tangible shift in Russian strategic deployments and planning happened in the second half of the 1990s, driven in part by a severe shortage of funding as a result of the 1998 financial crisis. No less significant were the broad contacts between Russian and American militaries, including regular exchanges between the two strategic forces’ top commanders. Most importantly intensive arms control talks and agreements (START II and START III) served to make Moscow’s policy-making on weapon programs more rational.

The most vivid example was the work of the special commission of military and civilian experts on the planning of strategic forces in 1998 under the chairmanship of the vice president of the Russian Academy of Sciences, Nikolai Laverov. The commission recommended placing emphasis on ground-mobile SS-25 single-warhead missiles and their follow-on systems with a small number of light MIRV warheads (SS-27 of various mods), as well as on a new compact submarine type (955 “Borei”) with SS-N-32 “Bulava-30” SLBMs (designed as a largely common system with the SS-27 ICBM). Silo-based MIRVed ICBMs, including heavy missiles, were to be withdrawn from service in line with START II upon the end of their life cycle (for this reason it was agreed in 1997 that the term of the treaty would be extended by five years). In line with the above, force restructuring strategic planning allegedly emphasized the delayed second-strike capability and downgraded counterforce targeting.

Alas, this positive break with traditional policy was curtailed after 2000. With the transition from President Yeltsin to President Putin, the top level of the Ministry of Defense changed too, as well as the directorate of the 4th Institute. Since 2012 the Soviet legacy has been in many respects revived: inadequate public access to sensitive defense information, ostracism of dissenting analysts, and decisions on military matters taken completely behind closed doors and under the predominant influence of the defense bureaucracy and industrial lobbies.

68. Those agreements had a positive effect but were not ideal. START II set a too-high warheads ceiling (3,500), which was not compatible with the prohibition of MIRVed ICBMs, and it did not place any limitation on SLBM warheads. START III never moved beyond a framework agreement. Those deficiencies made the treaties difficult to defend in the Russian parliament, which for many years was the task of the author of this essay.
Russian nuclear forces modernization programs also recalled the Soviet tradition. There was again a multiplicity of weapon systems being developed and deployed in parallel. It is noteworthy that while implementing the massive nuclear force modernization program of 2011–2020 and proudly stressing its technical and strategic advances, Russian political authorities and military command have never thought about the possible U.S. and NATO reaction. Nonetheless, the first news about the new cycle of the U.S. nuclear forces modernization program after 2020 have already triggered a Russian campaign focusing on an imminent “military threat” from abroad. In today’s Russia, arms control has become an extremely unpopular topic, and past agreements often have been referred to as virtually treasonous (openly in the conservative mass media and often only a little less so at the official level).

NUCLEAR WEAPONS AS A “SACRED COW”

The above considerations should not be interpreted as idealizing the American model. It was the United States that first tested and used nuclear weapons in war. Before the 1990s the United States started four consecutive massive cycles of the nuclear arms race, obliging the USSR to catch up. Since the early 1960s the U.S. strategy envisioned, with varying levels of prominence, counterforce targeting and hard-target-kill capabilities against Soviet nuclear forces, challenging Moscow to respond in kind and at the same time implement expensive programs to enhance force survivability. With few exceptions, the United States initiated the development and deployment of all new types of strategic arms, including the recent conventional BMD and prompt global strike systems. While presently both nations are accusing each other of being in violation of the INF Treaty, the United States is the only nation that has openly undercut nuclear arms control by failing to ratify SALT II and the CTBT, and by abrogating the ABM Treaty. Washington’s nuclear posture long envisaged the first use of nuclear weapons and retained this concept even after the end of the Cold War, when NATO acquired conventional superiority over Russia and relations with Moscow were highly cooperative.

Nevertheless, as was discussed above, the growing gap in U.S. and Russian thinking, talking, and acting on nuclear arms presents a critically important and dangerous problem, in particular at the present time of high political tensions. Following the post-2011 deterioration of U.S.-Russian relations and their return to a “hybrid” Cold War model, nuclear weapons have moved back to the

69. These were ground-mobile and silo-based “Yars” SS-27 Mod 2 MIRVed ICBMs and SS-27 Mod 3 “Rubezh” missiles deployment, a new silo-based MIRVed “Sarmat” heavy missile development, a new railway-based “Barguzin” ICBM development, and deployment of a modified SS-N-23 M1 SLBM system on Delta-IV submarines in parallel to SS-N-32 “Bulava-30” missiles on the new “Borei” nuclear-powered ballistic missile submarines (SSBNs).

70. Russia, for its part, abrogated the Conventional Armed Forces in Europe (CFE) Treaty beginning in 2007, which was finalized in 2015.
highest place in Russian foreign and defense priorities. In contrast to the USSR, Russia’s nuclear arsenal is the country’s only element of status as a great power and heir of Soviet superpower standing. Nuclear forces are the area in which Russia is equal and in some categories superior to the United States, as well as to the aggregate capability of all other seven nuclear arms states.

Unlike the Soviet leadership, the Russian political elite does not consider nuclear arms control to be a tool for enhancing security and believes most past treaties on offensive nuclear arms are unilateral concessions to the West. After the New START further nuclear arms reduction is commonly perceived as a risk, since it would diminish the only Russian asset of security and world status. Hence the political role of the nuclear arsenal in Moscow’s view is greater than it had been for the USSR once parity was achieved by the early 1970s.

The nuclear rhetoric and armed forces activities of Russia and NATO in 2013–2016 have revived the danger of a nuclear war that looked totally unthinkable only five years ago. The lack of experience of Russian and U.S. political leaders in real crisis management (which their predecessors acquired in the painful learning process of the Cold War) and the illusions they may have over their ability to conduct policy on the brink of armed conflict may suck them into a vortex of inadvertent escalation in a crisis adjacent or close to Russian territory. Six years of stalemate in arms control talks have removed an important channel of strategic communication between Russian and American national command authorities. Presently any common understanding of the rules of mutual nuclear deterrence, the limited utility of nuclear weapons, and strategic stability has evaporated. A prolonged breakdown of regular military-to-military contacts and the arrival of a new generation of commanders (who are more disrespectful and combative toward each other than their predecessors) may result in dangerous collisions when armed forces maneuver in close proximity.

No one explained the danger of this widening gap better than William Perry, a distinguished American statesman and public authority. Referring to past arms control agreements, he made an observation quite relevant to the present situation. In his recent book, My Journey at the Nuclear Brink, he notes a successful arms control agreement could have put a brake on the arms race, “but even more important, it would have engaged us in a dialogue with our deadly foe, given both sides a degree of transparency, and, most critically, given us context—a better understanding of our opponent—to inform the awesome decisions we were expected to make in a heartbeat.”

Understanding the essence and historic roots of the differences of the U.S. and Russian nuclear mentality might facilitate an effort by both powers to forge a common, up-to-date understanding of the principles of strategic stability and enhance them by arms control provisions and through regular military and civilian contacts on strategic matters.

CONCLUSION

The challenges of the new nuclear age look quite different from Washington and other Western capitals than from Moscow. In the Cold War, security perceptions were opposite, but symmetric and similar in their order of priorities. This divergence began near the end of the 1990s and turned into a broad schism during the Ukrainian crisis of 2014–2015.

No doubt the above mismatched threat perceptions by the great powers (including China, which requires a special study) are detrimental to international security in the new nuclear age. In my view, however, in contrast to the outlook of both sides, the greatest common challenge for the foreseeable future is a comprehensive crisis of the system of nuclear arms control treaties and negotiations, which may lead to a resumed arms race, the disintegration of the nuclear nonproliferation regime, and the degradation of safety standards for handling nuclear materials.72

This crisis of arms control, in the context of the new confrontation between Russia and the West and proliferating arms races in nuclear and conventional long-range systems, may make the actual use of nuclear weapons in a combat operation by accident or by terrorist act entirely possible in the nearest future. As was pointed out in a book coauthored by Gareth Evans, former Australian foreign minister and a prominent arms control proponent: “Any use of nuclear weapons, the most indiscriminately inhumane ever devised, would have a catastrophic human and environmental impact, beyond the capacity of any state’s emergency systems to address.”73

Preventing this dreadful prospect should be the top priority of Russia and the United States, regardless of the political issues that divide them. An important bonus of strategic talks would be the resumption of regular contacts between state officials and multi-layered military interactions to restore a common understanding of the rules of nuclear deterrence, the essence of strategic stability, and measures for avoiding risks of accidents and inadvertent escalation. The NATO-Russian military buildup and intensive exercises in Europe and the Arctic should be curtailed on a mutual basis, as well as drills and redeployments of nuclear forces.

Of course a key question is whether the current Russian political system, because it relies on anti-American ideology, can afford a new détente and arms control breakthroughs with the West. The answer to this question is unknown until a real effort is made. This is a task primarily for the United States as the most powerful nation in the world. Its position affords it the opportunity to conduct a realistic and long-sighted review of foreign policy. Moreover,


73. Gareth Evans, Tanya Ogilvie-White, and Ramesh Thakur, Nuclear Weapons: The States of Play 2015 (Canberra, Australia: Centre for Nuclear Non-Proliferation and Disarmament, 2015), x.
the historical record provides encouraging examples of Moscow’s readiness to follow a cooperative course: Brezhnev’s policy of détente, Gorbachev’s “new political thinking,” and Putin’s advances to the West in 2000–2007.74 Besides, as historical experience shows, depending on the international context, the Russian domestic political system may tangibly change for the better as well as for the worse.

Another key question is whether President Donald Trump’s administration will develop an interest in furthering arms control against the background of its planned nuclear forces modernization and BMD expansion. Besides an uncertain evolution of the executive branch’s position on the subject, a serious impediment may come from an unprecedented political campaign against Putin’s Russia in Congress and mass media, which also is serving as a tool of the opposition’s battle against a new president.

Nonetheless, saving the arms control system and preventing or at least limiting the forthcoming cycle of the arms race is so essential to the national interests of the two powers, and to international security at large, that no effort should be spared to impress this understanding on the leaders of both states in their search for possible grounds for cooperation.

A new U.S.-Russian strategic agreement might encourage progress in other areas of arms control, such as substrategic nuclear arms, and draw third states into the process. It could facilitate efforts to limit the proliferation of nuclear arms, as well as ballistic, cruise, and hypersonic missiles, and increase the safety of nuclear sites and materials. These steps would require participation of other nuclear powers and emerging regional leaders. However, this will not be possible without U.S. and Russian leadership starting the process. As Legvold noted: “Neither the United States nor Russia can alone or together fully restore this complex set of arrangements. But only if they re-engage can key elements in this architecture be saved, and that will not happen as long as the current stand-off continues. . . . There is no path forward unless the two countries travel it together. They arrived here together and only together can they alter the relationship’s currently unhappy trajectory.”75

No doubt many in the West would object to this proposal, claiming it would reward Russian leadership for its actions in Ukraine and Syria, as well as for its nuclear bravado, massive arms buildup, and show of force. To this objection, former Senator Sam Nunn, a leading American public figure and authority on international security, responded: “We can no longer afford to treat dialogue as a bargaining chip. ‘You upset us and we will punish you by not talking’ is not a sound strategy for two countries that control 90 percent of the world’s nuclear weapons and materials. . . . When the United States and Russia do manage to

74. It is now largely forgotten that upon coming to power in 2000 Putin achieved ratification by the Russian parliament of START II, CTBT, and the Adapted CFE Treaty (2004), signed and ensured ratification of SORT, and promoted talks with the United States on joint BMD system development, despite the U.S. withdrawal from the ABM Treaty in 2002.

75. Legvold, Return to Cold War, 132.
cooperate on regional or global issues, great things can happen for the mutual benefit of both our countries and, indeed, the world.\textsuperscript{76}

This mutual benefit comes more than anything from forging bilateral and multilateral fronts in dealing with the challenges of the emerging twenty-first-century nuclear era.