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Before the

Subcommittee on Strategic Forces

COMMITTEE ON
ARMED SERVICES

UNITED STATES SENATE

HEARING TO RECEIVE TESTIMONY ON
REGIONAL NUCLEAR DYNAMICS

Wednesday, February 25, 2015

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REGIONAL NUCLEAR DYNAMICS

Wednesday, February 25, 2015

U.S. Senate
Subcommittee on Strategic
Forces
Committee on Armed Services
Washington, D.C.

The committee met, pursuant to notice, at 2:33 p.m. in Room SR-220, Russell Senate Office Building, Hon. Jeff Sessions, chairman of the subcommittee, presiding.

Subcommittee Members Present: Senators Sessions [presiding], Fischer, Nelson, Donnelly, and King.

1 OPENING STATEMENT OF HON. JEFF SESSIONS, U.S. SENATOR
2 FROM ALABAMA

3 Senator Sessions: Okay, the subcommittee would come
4 to order, and I appreciate the good witnesses that we have.
5 And Senator Donnelly, thank you for your leadership and
6 participation and dedication to helping us get this issue
7 right.

8 I think we are close to having a bipartisan policy on
9 this, which is not always possible in this body, but we
10 have been able to operate pretty well as a subcommittee for
11 quite a number of years, since I have been in the Senate
12 now 18 years. Hard to believe.

13 Senator Donnelly: I have almost been here that long.

14 Senator Sessions: It seems like it. So we had -- our
15 subcommittee on February 11th received a classified
16 briefing on worldwide nuclear capabilities and threats,
17 which revealed the scope and extent to which other nuclear
18 powers are modernizing their weapon nuclear capabilities
19 and increasing, it appears, reliance on nuclear weapons for
20 their security.

21 Today's open hearing is meant to explore the
22 implications of this global nuclear renaissance, renewal
23 around the world, for U.S. nuclear strategy forces and
24 declaratory policy. While the size and composition of the
25 U.S. nuclear arsenal is driven primarily by the nuclear and

1 conventional might of Russia and agreements with Russia,
2 the expansion of nuclear arsenals across the globe, coupled
3 with a growing regional tension, suggests that there are
4 other factors that should inform U.S. nuclear policy and
5 strategy.

6 We divided the world between four prominent think tank
7 scholars. You each have the world in your hands. Dr.
8 Andrew Krepinevich will look at the Middle East. Dr.
9 Matthew Kroenig will focus on NATO/Europe, while Dr. George
10 Perkovich and Dr. Ashley Tellis will tackle Asia. They
11 have been asked in general -- we have asked you in general
12 to look out about 10 years. Where are we, and where should
13 we go?

14 A summary -- and think about the following -- a
15 summary of the nuclear capabilities and doctrine of the
16 nuclear and potential nuclear powers in their region, to
17 include the rationale for acquiring nuclear weapons, the
18 likelihood for a nuclear escalation, and implications for
19 nuclear proliferation, which is a real -- is reality, I am
20 afraid.

21 Why is it important for the United States to manage
22 nuclear stability in the regions, how difficult such a task
23 might be? What might be the role of the United States
24 during a regional crisis or conflict that could escalate to
25 nuclear use? And finally, any recommendations for U.S.

1 national security policy, nuclear force policy, and nuclear
2 doctrine derived from your analysis.

3 On the President's budget request, I think it is fair
4 to say affirms a policy of modernization. We will be
5 looking to make sure that we are sufficiently funded for
6 that. We are behind, some would suggest, at about \$2.5
7 billion from what we agreed to when we started this
8 bipartisan effort several years ago.

9 So this will be the order, as I understand it -- Dr.
10 Krepinevich, Dr. Kroenig, Dr. Tellis, and Dr. Perkovich.
11 In that order we would go. All right.

12 Do you have any comments?

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1 STATEMENT OF HON. JOE DONNELLY, U.S. SENATOR FROM
2 INDIANA

3 Senator Donnelly: Thank you, Mr. Chairman. I want to
4 thank Chairman and Senator Sessions for holding this
5 hearing, which is to set the policy context for many of the
6 issues that we face in the subcommittee this Congress. It
7 follows on the footsteps of a highly successful hearing we
8 had last year on how we deal with nuclear proliferation
9 outside the U.S.-Russia context.

10 Let me also thank all of you for taking the time to
11 testify here today. We very much appreciate your ideas,
12 your thoughts, and your recommendations.

13 I want to concentrate first on the India-Pakistan
14 nuclear question. This region seems to be an area where
15 nuclear weapons are growing, with great potential for
16 possible instability from a conventional conflict or from
17 terrorism.

18 I also want to find out what these countries and their
19 nuclear programs mean for the United States. We now know
20 that India and China are developing ballistic submarines.
21 What does this mean for the region and for the U.S.?

22 Finally, how can countries surrounding North Korea
23 react to their nuclear program, and how can we help them?

24 Again, thank you for coming today. I look forward to
25 the dialogue. And Mr. Chairman, off we go.

1 Senator Sessions: Dr. Krepinevich?
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1 STATEMENT OF ANDREW F. KREPINEVICH, JR., PRESIDENT,
2 CENTER FOR STRATEGIC AND BUDGETARY ASSESSMENTS

3 Mr. Krepinevich: Thank you, Mr. Chairman, Senator
4 Donnelly, for the opportunity to be here today and offer my
5 views on these important issues. I will try and summarize
6 my remarks in the form of four brief points.

7 First, of course, looking at the Middle East, which is
8 my area. Right now, there is only one undeclared nuclear
9 power in the region. However, obviously, there is the
10 issue of Iran. And while the negotiations to forestall
11 Iran from becoming a nuclear power are in progress, from
12 what is being reported in the press it seems likely that
13 should an agreement along these lines be made, Iran will
14 likely be a threshold nuclear power in 10 years. This
15 perhaps is not surprising.

16 Given the current state of Iran's nuclear program, the
17 immense cost Iran's leaders have invested in it, the great
18 lengths to which they have gone to deceive the
19 international community regarding their nuclear program,
20 and the substantial advantages that would accrue to Teheran
21 from possessing nuclear weapons, it seems unlikely that
22 anything short of the threat or the use of force would
23 deflect the current regime from its objective of achieving
24 a nuclear weapons capability.

25 Second, while we can and should certainly hope for a

1 positive breakthrough in the current negotiations, hope is
2 not a strategy. Prudence dictates that we contemplate what
3 challenges we might confront should these negotiations fail
4 to arrest Iran's progress toward the bomb.

5 Should Iran acquire a nuclear capability, which is
6 certainly plausible within the 5- to 10-year timeframe that
7 you have asked us to examine, the initial bipolar nuclear
8 competition between Iran and Israel, I would think, would
9 be far less stable than the bipolar nuclear competition
10 that existed between the United States and the Soviet Union
11 during the Cold War for several reasons.

12 First, given the state of relations between Israel and
13 Iran, there seems relatively little chance that the two
14 sides will engage in mutual confidence-building measures,
15 things such as hotlines or arms control or intrusive
16 inspection regimes.

17 Second, the geography of the two countries means that
18 missile flight times between the two would be far less than
19 even 10 minutes, whereas during the Cold War we had
20 arguably 20 to 30 minutes warning time of an attack by the
21 Soviet Union.

22 Third, particularly with respect to Iran, early
23 warning systems and command and control structures are
24 likely to be limited at best, which may lead one or both
25 sides to place their forces on hair-trigger alert or to

1 extend nuclear weapons release authority down the chain of
2 command, increasing the risk of unauthorized or accidental
3 launch of a nuclear attack.

4 And fourth, the potential -- with the rise of cyber
5 warfare, the potential to covertly insert cyber weapons
6 into command and control or early warning systems may
7 further reduce the confidence either the Israelis or
8 especially the Iranians might have in their ability to
9 detect an attack. And again, all this may push both sides,
10 particularly in a crisis, to a very hair-trigger kind of
11 nuclear force posture, if you will, one that would
12 certainly compromise efforts to reduce the risk of a
13 nuclear use.

14 My third point is that a nuclear-armed Iran, or even
15 an Iran that is a nuclear threshold state, could trigger a
16 proliferation cascade in the region. If there is an
17 Israeli bomb and a Persian Shia bomb, one could surmise
18 that for their security, Arab states and perhaps the Turks
19 as well would seek a nuclear capability.

20 Certainly in the open press, there are reports that,
21 given the relationship that the Saudis have with the
22 Pakistanis, Pakistan could, for example, deploy nuclear
23 weapons on Saudi soil, somewhat similar to the way that we
24 have nuclear weapons on Turkey's soil right now. Only the
25 difference could be that the Saudis would have de facto

1 control over those weapons. Or you could find an
2 unraveling of the NPT regime, where the transfer of
3 nuclear-related technology, the barriers to those transfers
4 could become a lot lower.

5 In particular, even transfers of technology that do
6 not relate directly to nuclear weapons themselves -- such
7 as the ability to miniaturize a nuclear warhead to fit on a
8 ballistic missile, or the ability to develop cruise
9 missiles and place them offshore, say, offshore of Israel
10 or to provide even less warning time than Israel would have
11 today, or of course precision guidance that would enhance
12 the effectiveness of these weapons -- could further
13 destabilize an already unstable situation.

14 Fourth, should -- I am sorry -- should other states in
15 the region besides Iran and Israel acquire nuclear weapons,
16 of course, warning times could be reduced even further.
17 Consider the example of Saudi Arabia and Iran. The two
18 countries are very, very close together, obviously, and it
19 seems difficult to imagine that you could have an effective
20 early warning and command and control system to respond
21 effectively to an attack.

22 So attack attribution may be difficult as well. In
23 the sense that if early warning systems and command and
24 control systems are limited, and there are four or five
25 actors in the region and you are attacked, under certain

1 circumstances it may be very difficult in the wake of an
2 attack to accurately determine exactly who the perpetrator
3 was.

4 My fourth point is that these could have significant
5 effects on the U.S. military posture. One effect,
6 certainly, would be an Iran that can operate behind a
7 nuclear shield may be an even more aggressive sponsor of
8 terrorism proxy war than it is today not only within the
9 region, but perhaps beyond the region as well. And should
10 we decide to pursue a strategy of extended deterrence, we
11 may run into difficulties as well.

12 As you have pointed out, other states are modernizing
13 their nuclear forces. China and Russia modernizing their
14 forces as well, moving particularly the Russians toward
15 smaller-yield weapons, weapons with focused effects. This
16 provides them with more options in terms of how they might
17 respond in a nuclear crisis. Right now, we are denying our
18 President the ability to have that kind of flexibility in
19 responding to a crisis.

20 Second, as one senior Arab statesman pointed out to me
21 when we were discussing the issue of extended deterrence,
22 "You Americans talk about extended deterrence. You extend
23 deterrence to protect your allies against the Russians, the
24 Chinese, the North Koreans, and now prospectively the
25 Iranians. But you keep reducing your nuclear arsenal. So

1 at the same time you are increasing your commitments, you
2 are reducing your capabilities, and we find that a bit
3 disturbing."

4 My final point is that Thomas Schelling once remarked
5 that he felt it took U.S. strategists well over a decade
6 following the introduction of nuclear weapons to arrive at
7 a reasonably good understanding of the character of the
8 U.S.-Soviet nuclear competition. And this was achieved
9 only after long and dedicated effort by talented
10 strategists such as Bernard Brodie, Herman Kahn, Henry
11 Kissinger, Andrew Marshall, and Albert and Roberta
12 Wohlstetter, to name but a few.

13 While considerable effort by many talented analysts
14 has been devoted to assessing how we might preclude Iran
15 from acquiring nuclear weapons, given current trends, it
16 seems prudent to hedge our bets and work to obtain as best
17 we can a sense of what it means for our security to live in
18 a world in which these efforts fail to prove out.

19 This completes my summary, Mr. Chairman. Thank you.

20 [The prepared statement of Mr. Krepinevich follows:]

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1 Senator Sessions: Thank you.

2 Dr. Kroenig?

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1 STATEMENT OF MATTHEW KROENIG, ASSOCIATE PROFESSOR OF
2 GOVERNMENT AND FOREIGN SERVICE, FIELD CHAIR OF
3 INTERNATIONAL RELATIONS AT GEORGETOWN UNIVERSITY, AND
4 SENIOR FELLOW AT THE ATLANTIC COUNCIL

5 Mr. Kroenig: Chairman Sessions, Ranking Member
6 Donnelly, members of the committee, thank you for inviting
7 me to participate in this important hearing. I am pleased
8 to be here alongside my distinguished colleagues Andrew
9 Krepinevich, George Perkovich, and Ashley Tellis. I would
10 like to commend the committee for initiating this timely
11 discussion of regional nuclear dynamics.

12 I have worked closely on nuclear issues both in and
13 out of government for over a decade, and my recent work at
14 Georgetown University and the Atlantic Council has focused
15 increasingly on Russian nuclear capabilities and its
16 implications for the United States and NATO. It is this
17 subject on which I have been invited to speak today. In my
18 opening remarks, I will make several brief points. More
19 detail on each can be found in my written testimony.

20 First, I will begin with Russia's nuclear
21 capabilities. Along with the United States, Russia is one
22 of the world's foremost nuclear powers. At the strategic
23 level, it possesses a triad of nuclear bombers,
24 intercontinental ballistic missiles, and submarines.

25 In addition to its strategic forces, Russia retains an

1 arsenal of around 2,000 tactical nuclear weapons for
2 battlefield use. This includes nuclear-armed torpedoes,
3 depth charges, short-range missiles, air-to-surface
4 missiles and bombs, and surface-to-air missiles for use in
5 air defense.

6 Russia has made the thoroughgoing modernization of its
7 nuclear forces and the development of new nuclear
8 capabilities a national priority, even in difficult
9 economic circumstances. Among the new capabilities is
10 Russia's recent test of an intermediate-range ground launch
11 cruise missile. This development is of particular concern
12 because it is in violation of Russia's commitments under
13 the 1987 Intermediate-Range Nuclear Forces, or INF, Treaty,
14 the only arms control treaty ever to eliminate an entire
15 class of nuclear weapons.

16 Second, turning to Russian doctrine, it is important
17 to emphasize that, unlike the United States, since the end
18 of the Cold War, Russia has moved nuclear weapons toward
19 the center of its national security strategy. Beginning in
20 the early 2000s, Russian strategists have promoted the idea
21 of "de-escalatory" nuclear strikes.

22 According to this "escalate to de-escalate" concept,
23 Moscow will threaten or, if necessary, carry out limited
24 nuclear strikes early in a conventional conflict in order
25 to force an opponent to sue for peace on terms favorable to

1 Moscow. In addition, at least as telling as public
2 documents are how military forces actually plan and
3 exercise, and nearly all of Russia's major military drills
4 over the past decade have concluded with simulated nuclear
5 strikes.

6 In some ways, it is not surprising that Russia, as the
7 conventionally inferior power, would consider the use of
8 nuclear weapons early in a conventional war, as this is
9 essentially the reverse of NATO strategy during the Cold
10 War, when it faced a conventionally superior Soviet Union.
11 Nevertheless, Russia's nuclear capabilities and strategy
12 pose a serious threat to the United States and our allies,
13 which brings me to my third point, the possibility of
14 escalation.

15 The ongoing conflict in Ukraine is very much a nuclear
16 crisis. Throughout the crisis, President Putin and other
17 high-ranking officials have repeatedly issued thinly veiled
18 nuclear threats. Moreover, these threats have been backed
19 up by an explicit brandishing of Russian nuclear forces at
20 a level we have not seen since the end of the Cold War.
21 The message is clear. The West must not interfere lest
22 things escalate to catastrophic levels.

23 If the conflict in Ukraine were to escalate or
24 President Putin were to rerun his playbook of hybrid
25 warfare from Ukraine against a NATO member, the United

1 States could find itself in a direct military confrontation
2 with Russia. In the event of such a conflict, Russia will
3 likely issue nuclear threats in a bid to force NATO
4 capitulation, and if on the losing end of a conventional
5 conflict, Moscow may conduct a limited nuclear strike in an
6 effort to de-escalate the conflict. To be sure, these
7 scenarios may not be likely, but nuclear deterrence is, by
8 definition, about unlikely, but possible and terribly
9 dangerous contingencies.

10 This brings me to my final point, recommendations for
11 U.S. nuclear strategy and posture. So long as nuclear
12 weapons retain such a prominent place in Russian strategy,
13 the United States and NATO must retain a policy of, and a
14 serious capability for, nuclear deterrence. At a minimum,
15 U.S. nuclear doctrine needs to be clear and firm that any
16 use of nuclear weapons against the United States or an ally
17 would result in a nuclear counterstrike.

18 In addition, the United States should leave on the
19 table the possibility of a nuclear response to a strictly
20 conventional Russian assault against a NATO ally. The
21 reason for eschewing a no first-use policy is not that an
22 early nuclear response would be necessary or automatic, but
23 rather because there is no reason to assure Russia that
24 this would not happen.

25 Moreover, the possibility of nuclear response to non-

1 nuclear attack has a critical assurance element, as NATO's
2 easternmost neighbors would prefer that any Russian attack
3 be deterred by the threat of nuclear response, rather than
4 needing to wait for a costly and lengthy conventional war
5 of liberation. To make these threats credible, the United
6 States and NATO must maintain a sufficiently large,
7 flexible, and resilient nuclear force, including capable
8 nuclear delivery systems and a supporting infrastructure.
9 I, therefore, urge this body to fully fund the much-needed
10 modernization of this country's nuclear forces and
11 infrastructure as planned.

12 In addition, the United States should upgrade its
13 homeland and theater missile defense systems. While
14 missile defenses could not meaningfully blunt a large-scale
15 Russian nuclear attack, an upgraded system could better
16 provide a defense against, and thus complicate Russian
17 calculations for, a more limited strike on the United
18 States or its allies.

19 The United States must also make sure that it has a
20 credible response to any Russian battlefield use of nuclear
21 weapons, and it is not at all clear that it does at
22 present. Yields of strategic warheads may be too large for
23 a credible response to a tactical strike, and their use
24 would risk escalation to a catastrophic strategic nuclear
25 exchange. The B61 gravity bombs in Europe are out of range

1 of potential conflict zones in the East without
2 redeployment and/or refueling, and the aircraft in which
3 they are delivered would be highly vulnerable to Russian
4 air defenses.

5 American B-52 bombers and nuclear-armed air launch
6 cruise missiles are based in the United States, reducing
7 their utility for deterrence and assurance missions in
8 Europe.

9 The United States should, therefore, consider
10 additional options to deter Russian nuclear aggression,
11 assure regional allies, and if necessary respond to a
12 limited Russian nuclear strike. The options could include
13 -- I will just list them quickly -- placing lower-yield
14 warheads on strategic missiles, training European crews to
15 participate in NATO nuclear strike missions, forward basing
16 B61 gravity bombs in Eastern Europe, rotationally basing B-
17 52 bombers and nuclear air-launched cruise missiles in
18 Europe, developing a sea-launched cruise missile, or
19 designating the planned long-range standoff weapon, LRSO,
20 for delivery by both air and sea.

21 The United States must also convince Russia to return
22 to compliance with the INF Treaty and, if that fails, to
23 prevent Russia from gaining a military advantage from its
24 violation. Washington should, therefore, study the
25 development of new intermediate-range missiles and their

1 deployment to Europe. It should also consider the
2 deployment of cruise missile defenses in Europe to defend
3 against Russian nuclear aggression.

4 Following through on some of these proposals would
5 reverse U.S. and NATO policy of reducing reliance on
6 nuclear weapons as an objective in and of itself. This
7 policy was justifiable so long as Russia remained
8 cooperative, but given increased Russian nuclear
9 aggression, we no longer have the luxury of reducing
10 reliance on nuclear weapons for its own sake and arguably
11 never did.

12 Some of these proposals, if adopted, would also run
13 counter to promises made to Russia in the NATO-Russia
14 Founding Act of 1997. But Putin has already violated key
15 provisions of this act, and it would be foolish for the
16 United States to be constrained from taking action
17 necessary for its national security by a document that
18 Russia routinely ignores.

19 Nuclear weapons are tools of great power, political
20 competition, and they remain the ultimate instrument of
21 military force. With long-dormant tensions among the great
22 powers resurfacing, nuclear weapons will again feature
23 prominently in these confrontations, and the United States
24 must be prepared to protect itself and its allies in these
25 conditions.

1 I know this committee will help ensure the maintenance
2 of the strong American nuclear forces that have undergirded
3 international peace and security for nearly 70 years.

4 Thank you for the opportunity to be here today. I
5 look forward to your questions.

6 [The prepared statement of Mr. Kroenig follows:]

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1 Senator Sessions: We got notice that a vote has
2 already started. I am inclined to think that we should
3 just break because your statements are very important, and
4 I would like to hear them. And so we will take a break for
5 the vote.

6 I guess that is the signal that the vote has started.
7 So why don't we just go and make a quick return in 10-12
8 minutes for one vote. So we will be back.

9 [Whereupon, at 2:54 p.m., the committee recessed, to
10 reconvene at 3:07 p.m., the same day.]

11 Senator Sessions: Okay, we will reconvene. That was
12 not as long as sometimes it takes. Senator Donnelly and
13 King got their business done and got out of there.

14 Senator Donnelly: We have young legs.

15 Senator Sessions: Let us see. Dr. Tellis, thank you
16 for coming again, and now we look forward to hearing from
17 you.

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1 STATEMENT OF ASHLEY TELLIS, SENIOR ASSOCIATE,
2 CARNEGIE ENDOWMENT FOR INTERNATIONAL PEACE

3 Mr. Tellis: Chairman Sessions, Ranking Member
4 Donnelly, members of the committee, thank you for the
5 invitation to testify today.

6 My testimony focuses on a segment of the Asian nuclear
7 space, namely China, India, and Pakistan. My written
8 testimony looks at different dimensions of the nuclear
9 programs in these countries, but in my oral remarks I am
10 going to focus mostly on the drivers that have pushed these
11 countries to modernize their nuclear programs. And I want
12 to end by identifying some contingencies that would be of
13 importance to the United States and the challenges for
14 protecting the U.S. strategic deterrent as we go forward.

15 I would be grateful if you include my written
16 statement into the record.

17 Senator Sessions: We will make all of your statements
18 a part of the record. Thank you.

19 Mr. Tellis: Thank you.

20 Let me start by noting that although China, India, and
21 Pakistan are modernizing their nuclear deterrence
22 comprehensively, only China's nuclear expansion is driven
23 fundamentally by concerns about the United States. China
24 aims to create a nuclear force that is sufficiently immune
25 to both U.S. nuclear and conventional weapons systems,

1 while also intending to deter direct U.S. attacks and
2 coercion against China, while contributing to deterring
3 U.S. intervention on behalf of its allies in any regional
4 crisis, especially in East Asia.

5 Satisfying these multiple aims requires China to have
6 a substantial and a survivable deterrent, one that is also
7 intended to deter India, Russia, Japan, and other regional
8 powers simultaneously.

9 India's nuclear program, which historically began in
10 response to China's, is intended today primarily to correct
11 its abject vulnerability, vis-à-vis Beijing, while also
12 deterring Pakistan, India's two principal adversaries. The
13 principal thrust of India's nuclear weapons modernization,
14 therefore, is focused on increasing the range and
15 survivability of its delivery systems primarily to deter
16 China.

17 Pakistan's nuclear program, which is perhaps the
18 fastest-growing program of the three countries, is aimed,
19 as it has been from the beginning, at checkmating India's
20 conventional superiority. In contrast to both China and
21 India, which view their nuclear weapons primarily as
22 second-strike systems, Pakistan's nuclear doctrine
23 conceives of its weapons as being used first, mainly in
24 response to a conventional attack by India. Hence,
25 Pakistan has invested heavily in developing a diverse set

1 of capabilities ranging from the strategic to the tactical.

2 The bottom line is that nuclear weapons programs in
3 the greater South Asian region are alive and well and will
4 be so for some time to come.

5 There are two sets of contingencies that arise from
6 the expansion of nuclear weapons in this part of the world.
7 The Chinese effort to undermine U.S. extended deterrence in
8 East Asia, especially with respect to Japan, Taiwan, and
9 our other treaty allies, and the risks to nuclear security
10 in Pakistan remain direct threats to the United States.

11 Pakistan's support for terrorism against India under
12 cover of its nuclear weapons program and the possible
13 employment of nuclear weapons in an Indo-Pakistani or Sino-
14 Indian conflict, while undoubtedly serious dangers, remain
15 indirect threats to U.S. interests. To my mind, there are
16 three implications for U.S. strategic forces that flow from
17 these realities.

18 First, U.S. strategic forces remain the ultimate
19 backstop for American security and, hence, must be
20 modernized and maintained at New START numbers, at least at
21 New START numbers, given the prospect of continued nuclear
22 expansion in Asia. In other words, given the onerous U.S.
23 extended deterrence commitments in Europe and Asia, U.S.
24 nuclear parity with Russia must not diminish to a point
25 where parity with China appears within reach.

1 Second, the United States must maintain the requisite
2 superiority of the total force that permits it to achieve
3 conventional success in regional contingencies, while
4 consciously integrating nuclear options into current
5 planning for successful power projection in Asia,
6 especially in the efforts now underway to defeat China's
7 anti-access area denial programs. U.S. regional allies
8 need the assurance that the growing Chinese nuclear
9 capability will not paralyze the United States or prevent
10 it from coming to their defense in a crisis.

11 Third, the desire to reduce the salience of nuclear
12 weaponry in global politics is estimable. But that desire
13 should not extend to devaluing the utility of nuclear
14 weapons for deterrence, damage limitation, and sometimes
15 use against difficult conventional targets. Maintaining
16 this balance is admittedly challenging, but successful
17 deterrence inevitably involves the management of difficult
18 and complex contradictions.

19 Thank you, Mr. Chairman. I will be happy to answer
20 any questions.

21 [The prepared statement of Mr. Tellis follows:]

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1 Senator Sessions: Thank you very much.
2 Dr. Perkovich?
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1 STATEMENT OF GEORGE PERKOVICH, VICE PRESIDENT FOR
2 STUDIES, CARNEGIE ENDOWMENT FOR INTERNATIONAL PEACE

3 Mr. Perkovich: Thank you to the chairman and ranking
4 member and Senator King.

5 I am just going to follow on my friend Ashley's
6 comments because we are both working on Asia and so burrow
7 into them a little bit. In my written testimony, I hit on
8 five themes. Here, I am just going to focus on a couple of
9 them.

10 The first is to highlight that the threat perceptions
11 and nuclear requirements and policies of the states in
12 Northeast Asia and South Asia are causally linked to each
13 other and to what the United States does. And in my
14 written testimony, I have got a diagram of this dynamic
15 here, but I think it is often lost sight of.

16 And you can think of it in terms of two triangles. So
17 you have the U.S., Russia, and China in a triangle. The
18 U.S. benchmarks historically what it needs in terms of what
19 Russia had. More recently, we have been benchmarking our
20 requirements to what China is doing.

21 China, in turn, calculates what its strategic
22 requirements are in terms of not only U.S. nuclear
23 capabilities, but also U.S. cyber capabilities, U.S.
24 strategic conventional capabilities, and ballistic missile
25 defenses. So they are all feeding off each other, and it

1 is not just nuclear for nuclear.

2 There is a second triangle, which includes China,
3 India, and Pakistan. And so these two triangles meet in
4 China. As Ashley talked about, China is the benchmark for
5 India's requirement, what it needs in terms of nuclear
6 warheads and delivery systems. And as already mentioned,
7 though, that target that China presents is being affected
8 by China's effort to balance the U.S.

9 India is also balancing against Pakistan -- to deter
10 Pakistan. And China is helping Pakistan. So India has got
11 to be thinking about China, Pakistan, and the help that
12 China provides Pakistan.

13 Pakistan looks at India and calibrates what it needs,
14 but Pakistan is also looking at the U.S. and India
15 collaborating and say, "Okay, what we need is also the
16 product of this U.S.-India collaboration."

17 So you have got these two triangles operating in a
18 very keen way, and so I think one take-away for U.S.
19 policymakers and the policymakers in the region is to
20 realize that anything that we or they do, in terms of
21 capabilities or actions, will affect all of the others.
22 And that would include force modernization. It is not an
23 argument against doing it, but it is to understand that
24 there will be reverberations beyond China, but into South
25 Asia with whatever is done.

1 Second point I want to highlight is that -- and Ashley
2 referred to it also -- the most complicated challenges
3 facing U.S. nuclear policymakers today are about extended
4 deterrence. And in particular, reassuring Japan that the
5 U.S. has the resolve and the capabilities to defend it
6 against armed attack from China or any other threat.

7 Now, extended deterrence is often conflated with
8 extended nuclear deterrence. They are related, but they
9 are not necessarily the same thing. It is tempting to
10 believe that the potential use of nuclear weapons always
11 strengthens extended deterrence, but the issue is actually
12 problematic, and that is true in Asia as well as in Europe.

13 Potential use of nuclear weapons in an escalating
14 conflict can indeed strengthen the potency of our guarantee
15 to the countries that we protect. But the very
16 destructiveness that the specter of nuclear weapons
17 portends also can weaken the resolve of our own society and
18 the protégé's society. So the classic line, should we
19 trade Los Angeles for Okinawa? Or if you are in Japan, if
20 the U.S. uses a nuclear weapon against China, China is
21 going to nuke us.

22 And so this can be divisive and can be exploited by a
23 potential aggressor, and I think we have been seeing this
24 with what Russia has been doing in Ukraine. That you make
25 a nuclear threat to see if you can split either the

1 guarantor from the protégé or weaken the resolve of the
2 protégé. So it is not an automatically positive deterrent
3 effect. It can, in fact, be divisive and a weakening one.

4 But there is also an opposite problem in extended
5 deterrence. And that is if the guarantor's resolve is
6 unquestioned -- our resolve in this case -- in the face of
7 a countervailing nuclear threat, a nuclear moral hazard may
8 be created. It is like a finance company whose managers
9 believe that the government will bail them out if they get
10 into ruinous losses. The protégé may take risks in its
11 policies towards the adversary, feeling that the nuclear
12 threat that we offer to defend them will bail them out from
13 any crisis. That is a moral hazard.

14 The other moral hazard, which we also see in finance,
15 is that relying on the magic of nuclear deterrence, our
16 allies may under invest in conventional capabilities. We
17 can save a little money here because we are counting on the
18 nukes to do the trick. And that is like banks that do not
19 keep adequate reserves to cover their commitments. And we
20 have seen that historically in NATO, and we have seen it
21 historically with Japan.

22 So all of this comes together, I believe, in the
23 situation in the Senkaku-Diaoyu Islands, where Japan and
24 China are in a sovereignty dispute over these uninhabited
25 islands, and where there is a potential of crisis or

1 escalation either on purpose or by accident. In 2010, they
2 had two ships collide accidentally. Now, you have got two
3 highly nationalistic, kind of strongmen leaders in both
4 countries, and if you have one of these collisions, it is
5 easy to imagine a potential escalation.

6 Obviously, you want to do deal with that by diplomacy,
7 but it is worth thinking through the implications of a
8 potential conflict and having the conventional capability
9 to prevent China from being able to change the facts on the
10 ground.

11 It is a conventional issue that they not be able to
12 set foot on one of those islands and hold it. Because if
13 you have to fight to take it back, and you get into that
14 kind of potentially escalating conflict and we are not
15 prevailing, someone in this town or someplace else is going
16 to say we ought to make a nuclear threat. That is what
17 nuclear deterrence is for.

18 But then it raises the issue, is it credible or
19 advisable for the U.S. to think about first use of nuclear
20 weapons, because that is what we are talking about here,
21 over some islands that 99 percent of the U.S. population
22 has never heard of and could not find on a map? It seems
23 to me that is an invitation for a real disaster in terms of
24 U.S. credibility and extended deterrence.

25 And the way to prevent it is with convention

1 capabilities, both ours and the Japanese, and through
2 exercising those capabilities. And the current U.S.
3 nuclear posture, in terms of the numbers envisioned in New
4 START, is totally sufficient to deal with that kind of
5 scenario. It is not a nuclear problem.

6 Last thing I would say is on South Asia, picking up on
7 what Ashley said. Here, I think there really are
8 challenges for U.S. policy that have not been well
9 addressed. And the dynamic Ashley is talking about is an
10 unprecedented one, where you have -- the conflict starts
11 with a terrorist attack. Then India makes a conventional
12 military response. Pakistan says it would respond with
13 battlefield nuclear weapons. And India, which does not
14 have battlefield nuclear weapons, said they will respond
15 with massive retaliation.

16 There is no theory to deal with that. All the
17 theories of deterrence do not deal with the possibility
18 that terrorism is this thing that starts it. And the
19 theories and practices about how you deal with terrorism
20 have never been applied with antagonists with nuclear
21 weapons.

22 So we are all kind of groping in the dark in this
23 challenge, and I think it would behoove the committee and
24 the Congress and others in the U.S. Government to ask, if
25 we do get into a situation of a conflict, and the U.S.

1 detects Pakistan to be preparing nuclear weapons for use
2 against India -- where there are a lot of Americans at all
3 times, where American investment is very heavy, we have got
4 a very strong Indian-American population in the U.S. You
5 see Pakistan getting ready, what does the U.S. do?

6 And I do not think we have prepared for that. We have
7 not thought about it. Do you intervene? How? If not,
8 what do you tell India? How do you do it?

9 If, God forbid, a conflict like that happens, I am
10 willing to bet that the Senate, or the Congress more
11 broadly, will conduct an inquiry to ask: What did the
12 President know? And when did he or she know it? And what
13 did they do to prevent it?

14 And we are not taking the steps now to analyze how you
15 work back from that kind of scenario. It has nothing to do
16 with U.S. forces. U.S. nuclear forces are irrelevant to
17 this problem, but it is a clear and present problem, I
18 would submit, that ought to be addressed.

19 Let me stop there. Thank you.

20 [The prepared statement of Mr. Perkovich follows:]

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1 Senator Sessions: Well, those are thoughtful and
2 great issues to discuss. Thank you for sharing your
3 thoughts and leadership with us.

4 Dr. Krepinevich, Henry Kissinger testified a few weeks
5 ago before the Armed Services Committee, and he was pretty
6 animated -- and it is in his book, too -- about what he
7 considers an alteration of our initial negotiating policy
8 with Iran, to accept them getting within months of having a
9 nuclear weapon. And he expressed the concern at the
10 hearing that this creates a circumstance where Turkey,
11 Saudi, Egypt may feel if they are within months of weapon,
12 then they practically have one, and they need to have one.

13 What thoughts would you have about that danger and
14 what we can do to prevent it?

15 Mr. Krepinevich: Well, certainly if I were a neighbor
16 of Iran's, and we are looking at a short sprint to a
17 nuclear weapon, if the declared goal now is to keep them a
18 year out, that assumes, I believe the Deputy Secretary of
19 State said, an unprecedented level of intrusion and
20 verification to keep them at that level. The question is,
21 can we achieve that?

22 And so far, I think the history has been that the
23 cheaters often seem to have an advantage. Even President
24 Reagan, who was famous for saying "trust but verify,"
25 during his presidency, the Soviets were cheating on the ABM

1 Treaty and on the biological conventions treaty.

2 Our success in trying to impose constraints on
3 countries like North Korea and Iran has been limited at
4 best and unfortunate at worst. So I think it would be very
5 difficult, as I said in my testimony, absent a clear threat
6 of military action or military action, to get the Iranians,
7 at this point, given the investment they have made, the
8 trouble they have gone through, the damage to their
9 reputation they have sustained, to deflect them.

10 And you can see that there are clear benefits to Iran
11 from having a nuclear capability, both in terms of regime
12 preservation, which I assume is probably their top
13 priority, and then advancing their aims throughout the
14 region.

15 Senator Sessions: Well, I think, so if you are a
16 Saudi Arabian, and you think you have the ability to
17 achieve a nuclear weapon through research or money, then if
18 you think your adversary is within months, 12, 9, I believe
19 -- actually, I think Kissinger used the word "9 months,"
20 then you could have a proliferation.

21 And how dangerous would it be if we ended up with
22 Turkey, Saudi Arabia, and Egypt with nuclear weapons?

23 Mr. Krepinevich: Well, I would say it is certainly --

24 Senator Sessions: Anything that our nuclear arsenal
25 should be altered to deal with that?

1 Mr. Krepinevich: Under those circumstance where, say,
2 you had a nuclear-armed Saudi Arabia next to Iran, as I
3 mentioned earlier, the ability to have an effective attack
4 warning system and command and control system would
5 certainly test the limits of technology, test the resources
6 of both countries, both in terms of financial and in terms
7 of the manpower resources.

8 During the Cold War when we were placing the Pershing
9 2s into Western Europe, the Soviets at the time, according
10 to the documentation that has come out, actually explored
11 an option called the "dead hand," which is -- if you have
12 seen the movie "Dr. Strangelove," it is an automated
13 nuclear response mechanism, because they were concerned
14 that the Pershings would give them such little warning time
15 that they might be faced with a decapitation attack. They
16 eventually moved toward something I understand called
17 "perimeter," which is semi-automated.

18 In this case, I think what we might be able to offer
19 countries like Saudi Arabia, hopefully, is, to the extent
20 that we can, effective attack warning. Perhaps a
21 willingness, hopefully, to dissuade them from acquiring
22 their own nuclear weapons by offering extended deterrence.
23 The possibility of missile defense, although I am skeptical
24 about missile defense for a couple of reasons.

25 One is in the Cold War, we had nuclear plenty before

1 we had missile plenty, and we went to MIRV systems. And so
2 the problem we faced right now is opposite, in the sense
3 that Iran has missile plenty, but not nuclear plenty.

4 So in a short-range attack on Saudi Arabia, if they
5 did not need -- if they could go beyond the Shahab-3
6 missiles and use some 1s and 2s, they may create a problem
7 for us in terms of having a lot of decoys -- maybe 4 or 5
8 missiles with nuclear warheads on it, 20 or 30 missiles in
9 the attack overall, and force our missile defenses to
10 actually engage them all. And we would be at the losing
11 end of a missile defense proposition.

12 Senator Sessions: You do think providing a nuclear
13 umbrella to our allies in the region is something that
14 would have to be considered?

15 Mr. Krepinevich: Certainly, I think so. Again, this
16 is -- I think there is a lot of virgin strategic territory
17 here.

18 Senator Sessions: And would we then need to move
19 advance locations for our nuclear weapons, if that were to
20 occur?

21 Mr. Krepinevich: Again, I would want to think through
22 the issue. I was about to say that if you had, as you
23 said, multiple states -- Turkey, Saudi Arabia, Iran -- and
24 just for a thought experiment, each had 50 nuclear weapons,
25 then if you are the Saudis, you may have to plan against an

1 attack by 100 nuclear weapons. You cannot have parity with
2 everyone in an end-state competition.

3 To the extent the United States provides nuclear
4 guarantees, that could offset some of the fears that, in
5 fact, even though I am inferior numerically in terms of
6 nuclear weapons, the United States can help make up the
7 difference.

8 So, again, we have never really, to my knowledge,
9 gotten into a detailed analysis of end-state nuclear
10 competitions, especially when warning times are extremely
11 short, and as George points out, you are looking at other
12 factors, such as the ability of conventional weapons to
13 substitute for nuclear weapons, advanced defenses, cyber
14 weaponry, and so on.

15 Senator Sessions: Well, it is definitely a complex
16 thing. It seems to me that if you have got now Iran, Saudi
17 Arabia, other nations with nuclear weapons, you have got
18 four nations perhaps who would use nuclear weapons if their
19 existence is at threat. So you have increased danger of a
20 first use in the ways that we maybe have not thought
21 through.

22 Mr. Krepinevich: Certainly, you have more triggers --
23 fingers on the trigger. I would be interested in my
24 colleagues' reaction, too.

25 One thing, of course, that concerns some folks is the

1 Saudi-Pakistani connection. And should Pakistan, for
2 example, deploy weapons in Saudi Arabia, certain countries
3 -- Israel included -- might view that as weapons, even
4 though they are under nominal Pakistani control, actually
5 being under the de facto control of the Saudis. While, at
6 the same time, what is the view of India? Does India view
7 this move as an effort by Pakistan to create strategic
8 depth in terms of its nuclear forces?

9 And so I think George was getting to this point. You
10 cannot just segment these particular problems by region.
11 In some cases, they are transregional problems.

12 Senator Sessions: Thank you. These are so complex,
13 but I think we better give up my time to Senator Donnelly.
14 I have hogged too many minutes.

15 Senator Donnelly: Thank you, Mr. Chairman.

16 Dr. Perkovich, you know we have spoken to General
17 Campbell recently, and he talked about how relations
18 between he and the Pakistan army are better than they have
19 been in a very, very, very long time. And then you flip to
20 the nuclear side, and you have Pakistan increasingly
21 perceiving the U.S. and India to be cooperating together,
22 and it puts them in a tougher spot, Pakistan feels.

23 How do you balance off this?

24 Mr. Perkovich: It is a great question, and you might
25 get a good debate going with Ashley and me, but I do not --

1 Senator Donnelly: On the one side, we are supposedly
2 working better than ever, and it is like going down the
3 hall into another room, and you have a completely 180
4 perspective.

5 Mr. Perkovich: I think I work back from -- and this
6 does not go over really well in Pakistan, but sometimes,
7 you know, you just stick with something if you believe it
8 is true.

9 Senator Donnelly: We just want to know what you
10 think.

11 Mr. Perkovich: The good news is India has no desires
12 for any Pakistani territory or anything in Pakistan. So,
13 the "threat from India" is only in response to Pakistani
14 aggression in India, or terrorism in India.

15 That is a basis for the U.S. in our relations with the
16 Pakistanis to say, look, if we can cooperate in getting at
17 the terrorism problem within Pakistan, what you are worried
18 about from India goes away, number one. And number two,
19 the influence that we might have in India can help reassure
20 you of that, which, by the way, did happen in 2001 and
21 2002. Ashley was out in Delhi in the embassy there --
22 there was a crisis -- where the U.S. was trying to stay
23 both of their hands.

24 And so there is a basis, if you can get at the
25 terrorism problem. If Pakistan cannot commit itself to

1 working against the terrorists that have operated in India,
2 then there is not much we can do to reassure them, but I
3 would argue there is probably not much we should do to
4 reassure them because that really is a problem.

5 Senator Donnelly: Let me ask you -- and this is not
6 exactly on the nuclear topic, but do you see it as a long-
7 term game changer what happened with the Army Public School
8 in Pakistan recently, to their children, when the attack
9 took place?

10 Do you see them having like a long-term commitment to
11 eliminating the Taliban, or is that something that you
12 think 6 months, a year from now may fade away?

13 Dr. Tellis?

14 Mr. Tellis: It is a difficult question to answer at
15 this point, but what we have certainly seen is that the
16 Pakistan army seems to be much more energized about going
17 after terrorist groups that are wrecking havoc within
18 Pakistani society. I think that is welcome, and of course,
19 it has been long overdue.

20 The question that cannot be answered today is whether
21 the Pakistanis will now extend this effort to groups that
22 do not directly threaten Pakistan but threaten others --
23 groups that threaten Afghanistan, U.S. forces in
24 Afghanistan, and India. Thus far, we have seen a very
25 energetic Pakistani response to their own state enemies.

1 And all things being equal, we would want to see that
2 rather than the absence.

3 But I think we would declare victory only when
4 Pakistanis begin to think of terrorism in a sort of broader
5 context and begin to focus their attentions on all
6 terrorist groups, and not pick and choose between groups
7 that support their interests and groups that support them.

8 Senator Donnelly: How strong are their security
9 efforts around their nuclear weapons? How good are their
10 programs and processes, as you have seen, compared to other
11 nations?

12 Mr. Perkovich: On this one, I could say nuclear
13 weapons are the most secure thing in Pakistan. That is
14 good news and bad news.

15 Senator Donnelly: Well, I am the tallest person in my
16 family.

17 Mr. Perkovich: I am the shortest in mine.

18 Senator Donnelly: Everything is degree.

19 Mr. Perkovich: But the issue is, is that -- that is
20 not the problem I would focus on precisely because it is
21 one that they care about more than anything, the army.
22 They have capabilities, and capabilities are acquirable to
23 deal with that. So they may not be perfect at it, but they
24 are on the job, and there is a reason to think they can
25 manage it.

1 The problem that is much harder is, again, the
2 terrorism leads to the war, which leads to escalation. So
3 it is not the loss of nuclear weapons, it is actually the
4 use of nuclear weapons in a conflict to me is a more
5 probable scenario. And it has implications for us that are
6 not as dire as a nuclear terrorist attack on the United
7 States, but that are pretty dire when you start going
8 through the calculation. And so that is the unattended-to
9 problem that I think we need to focus on.

10 Senator Donnelly: Thank you, Doctor.

11 Thank you, Mr. Chairman.

12 Senator Sessions: Senator Fischer?

13 Senator Fischer: Thank you, Mr. Chairman.

14 I would like to open this up for any of you if you
15 would like to make a comment on it.

16 I would like to know what influence we have as a
17 country if we see the confidence of our allies being eroded
18 over what they would view as the protection of a nuclear
19 umbrella that we would have in the region.

20 And also what influence we would have over trying to
21 prevent proliferation amongst our allies in different
22 regions, when we see conflicts continuing to grow, and the
23 ability of our allies to acquire nuclear capabilities,
24 either on developing them on their own or being able to
25 purchase them elsewhere.

1 If I will open that up.

2 Mr. Kroenig: Well, it is an important question, and I
3 think our extended deterrent depends in part on our
4 capability. Do we have the capability to follow through?
5 And it also depends on the credibility. Will we do it?

6 And so going back to the question that was asked of
7 Dr. Krepinevich on Iran, I think that is one of the things
8 that would make deterring a nuclear-armed Iran very
9 difficult and would make reassuring our allies in the
10 region very difficult, would be the lack of U.S.
11 credibility in that situation. After three successive U.S.
12 presidents said a nuclear-armed Iran is unacceptable, Iran
13 will not acquire nuclear weapons, and in the end, we allow
14 them to acquire nuclear weapons.

15 A deterrence and containment regime would rest on U.S.
16 threats. It would rest on U.S. threats to use nuclear
17 weapons, if necessary, to stop Iran, to go to war with a
18 nuclear-armed Iran. So who would believe that we would be
19 prepared to go to war with a nuclear-armed Iran if we were
20 not prepared to go to war with a non-nuclear Iran?

21 Also, capability is important. So when we think about
22 Asia, and in Dr. Perkovich's testimony he said that China
23 has a secure second-strike capability. We are vulnerable
24 to China, whether we like it or not, and I think that is
25 true. But we need to think about reassuring the allies in

1 the region as well, and something that the allies say is
2 that they would be very uncomfortable with nuclear parity
3 between the United States and China.

4 And so I think one way to square the circle is to make
5 sure, even if China has a secure second-strike capability,
6 to make sure that we maintain nuclear superiority over
7 China. And I think that would be one way that China could
8 feel secure that it is not going to be vulnerable to a
9 nuclear strike, but also our allies in the region would
10 feel confident under the American nuclear umbrella.

11 Senator Fischer: Thank you. Yes?

12 Mr. Perkovich: I will add a little to this.

13 A big part of the -- as Matt said -- of the
14 reassurance, which goes to the heart of your question,
15 Senator, you know, is our resolve. And this is something
16 that you all would have to address, and it is a political
17 issue. How much do you think the American people should be
18 willing to sacrifice to defend Saudi Arabia? And how would
19 you sell that politically?

20 Most of the terrorists that we have dealt with have an
21 ideology that was propagated by Saudi Arabia, often in
22 facilities funded by Saudis. The human rights record in
23 Saudi Arabia is whatever it is. I remember the House years
24 ago would not let the UAE buy a port facility in -- now we
25 are going to talk about extending security guarantees?

1 So it is a political issue that is first and foremost.
2 They do not doubt our military capabilities. They see what
3 we can do with conventional. They saw what we did in Iraq,
4 3 weeks gone. The issue is political, and do they think
5 that the United States would actually defend them to the
6 hilt, life or death, is a political issue, much more than
7 it is a hardware issue.

8 Senator Fischer: But do you not think it ties into a
9 hardware issue when we know we need to modernize our
10 arsenal, and we are not stepping forward and providing the
11 resources necessary to do even that?

12 You know, it was said earlier that we are increasing
13 America's commitments and decreasing America's
14 capabilities. That was, in my opinion, a statement that
15 hit the nail on the head. That is where the focus, I
16 think, needs to be for us to be able to move forward with
17 any kind of credibility in this world.

18 Mr. Perkovich: Absolutely. You absolutely have to
19 modernize it, and everything else.

20 But if you are talking about, for example, in the
21 Middle East, an Iran with 1 weapon -- or 10 weapons or 20
22 weapons -- whatever scenario you have about the U.S. force,
23 which is at 2,200 now, it is probably going to be adequate
24 as long as it is modernized, it is up to date. No one is
25 questioning that.

1 Senator Fischer: But as we continue to make
2 commitments around the world, though?

3 Mr. Tellis: Can I take a crack at that?

4 I think the point you are making is a very important
5 one, and particularly in East Asia. The best anti-
6 proliferation measure we have is the robustness of our
7 nuclear umbrella. To the degree that the allies feel
8 reassured by the resilience and the strength of the nuclear
9 umbrella, their incentives to go the nuclear route
10 independently are diminished.

11 Now, we have been blessed with allies, at least in
12 East Asia, which are advanced industrial societies. If
13 they choose to go the nuclear route, they could go there
14 very, very quickly. And so it becomes extremely important
15 for us to be able to maintain our nuclear assets in good
16 repair so that we do not have to incur the temptation -- or
17 they do not have to incur the temptation of going there.

18 Having said that, however, to my mind, when one thinks
19 about this strategically, the real challenge actually is
20 for us to beef up our conventional capabilities, so that if
21 they ever get into a fistfight with some adversaries, we
22 have the capacity to defend them conventionally, such that
23 we do not press too strongly on our nuclear assets.

24 Let me put it this way. If you get into a fistfight
25 in East Asia, I would rather be in a position where we are

1 so good and so robust conventionally that the other guy has
2 to think about using nuclear weapons first. And if
3 somebody else has to start thinking about using nuclear
4 weapons first, then I have the nuclear reserves necessary
5 to deter them.

6 If I end up being in a position where I have to use
7 nuclear weapons first because my conventional capabilities
8 are essentially less than robust, then I end up in a very,
9 very uncomfortable and unfavorable world. And that is the
10 world we want to avoid.

11 So we have to do two things simultaneously. You have
12 to make certain that the big stick that is essentially our
13 U.S. strategic reserves are kept in good shape. But it is
14 our usable forces that we will employ in the course of any
15 conventional problem that really have to be beefed up so
16 that we never have to use our own nuclear weapons if we are
17 forced to.

18 Senator Fischer: Thank you.

19 Thank you, Mr. Chair.

20 Senator Sessions: Senator King?

21 Senator King: You guys are full of good news.

22 [Laughter.]

23 Senator King: Dr. Kroenig, I have never heard anybody
24 deliver such appalling information so calmly before. The
25 sentence that I seized on that you said in your testimony

1 was, "The ongoing conflict in the Ukraine is very much a
2 nuclear crisis."

3 That is a very important piece of information. I have
4 been to probably a dozen hearings in the last couple of
5 months where the issue of arming the Ukraine has come up,
6 and for a while, at least 2 or 3 weeks ago, it was sort of
7 the wise guy consensus. Oh, yes, this is what we have to
8 do.

9 I sense there is a bit of a pause, but my question is
10 do you see a danger of escalation, a risk of
11 miscalculation? Given Russia's historic paranoia about the
12 West, all those factors, give me your thoughts on arming
13 the Ukrainians and danger of escalation.

14 Mr. Kroenig: Well, I think this feeds in a little bit
15 to the point that Dr. Tellis was just making, where if you
16 can deter an adversary at the conventional level or defeat
17 the adversary at the conventional level, you may be able to
18 prevent the conflict from escalating up to the nuclear
19 level. So I am less concerned about Ukraine, in part
20 because the United States does not have as great a stake in
21 Ukraine.

22 What I worry about a little bit more is if President
23 Putin were to kind of re-run this playbook against a NATO
24 ally, against a Baltic State. Those -- if they are NATO
25 allies, we would be compelled to come to their defense.

1 And in those kind of situations, if President Putin were
2 making these same kind of nuclear threats, I think the
3 stakes would be much higher because it is a NATO ally, and
4 I think there is a much greater risk for escalation in that
5 kind of scenario.

6 Senator King: I understand that. A point well taken.

7 I guess to get back to Ukraine, though, my concern is
8 that we do not live in a static universe, and we cannot
9 assume that our escalation is the end of the story. And to
10 me it appears, as an outsider, that this is of more vital
11 interest to the Russians than it is to us. Whatever we do,
12 they can match and raise us. That, I said in a hearing the
13 other day, if you are playing chess with a Russian, you
14 better think at least three moves ahead.

15 Changing the subject briefly. The danger of a
16 terrorist group getting a nuclear weapon somehow -- buying,
17 stealing, whatever. Our whole theory of nuclear deterrence
18 over the past 70 years has rested upon a premise of state
19 actors who are somewhat rational and fear death.

20 What is our strategy to deal with people who are not
21 state actors and want to die? Anybody?

22 Mr. Perkovich: It has to be prevention. The stuff we
23 are doing and probably can always do well.

24 I mean, the good news on the nuclear piece of
25 terrorism is to actually get a device that will go boom in

1 a very big way requires highly enriched uranium or
2 plutonium, which exists in finite quantities in knowable
3 locations. So it is a problem that governments can
4 actually redress with some degree of confidence. It is not
5 like ending poverty or a lot of other things that one might
6 want.

7 Senator King: It is a technical challenge.

8 Mr. Perkovich: It is a technical challenge and a
9 political will challenge. I mean, and this administration
10 has -- especially with all the nuclear security summits has
11 really applied a lot of heft and energy to it. There is a
12 political will issue because there are a lot of states that
13 need to do things that look at it and say, I mean, they are
14 not going to go off in my territory if somebody gets a hold
15 of it. So what is in it for me?

16 Senator King: Didn't the Pakistanis sell nuclear
17 technology? Or somebody? One of their scientists, as I
18 recall.

19 Mr. Perkovich: Yes. Yes. And so that is a real
20 problem. He sold them to states, where there is a
21 distinction. So Iran, North Korea, Libya did not know what
22 to do with it. So it just all sat in a box someplace. And
23 so terrorist capability to take all of that and integrate
24 it and produce a weapon is a pretty good stretch. But they
25 did not sell fissile material, which again goes to the

1 point of that.

2 So as problems go, this one is relatively manageable.
3 It is not to say do not lose sleep over it, you know, but
4 it is relatively -- and there is detection. A lot of money
5 has been thrown at detection. It was a good business to be
6 in to make detectors. And so, you know, a lot of effort
7 has gone into it.

8 Senator King: Dr. Tellis, your thoughts? Are you as
9 sanguine as your colleague?

10 Mr. Tellis: Well, I think we have been lucky so far
11 that the kind of proliferation that occurred in Pakistan
12 did not occur in terms of sales to a terrorist group. It
13 occurred to states, and thankfully, as George pointed out,
14 the states essentially did not do very much with it.

15 But to my mind, as one looks at the nuclear future,
16 this is a risk to which we do not have good answers.
17 Because you could imagine a North Korea-like entity down
18 the line actually taking the fatal step of making certain
19 that some of its nuclear capabilities go to pretty bad
20 people. And these are non-state actors, could move to non-
21 state actors.

22 Senator King: For whom deterrence is not a concern.

23 Mr. Tellis: For whom deterrence -- and to deter non-
24 state actors who do not have a sort of certifiable address
25 and who can do things under the cover of darkness is

1 really, you know, that is a hard case to deter.

2 And so what is the strategy? I think the strategy
3 first has to be prevention as best one can. Second, you
4 have to invest a lot in strategic intelligence. Because
5 when people sell things, hopefully, they use telephones,
6 they use computers, they use the Internet. These are
7 things that, in principle, can be intercepted. So you need
8 strategic intelligence.

9 And third, you need to have a government that is agile
10 enough to, either unilaterally or in collaboration with the
11 international community, to come up with political
12 strategies of interdiction. And sometimes those political
13 strategies may require military components.

14 So we have to work at all levels. This is not a
15 problem susceptible to a single-point solution.

16 Senator King: Yes. Thank you.

17 Thank you, Mr. Chair.

18 Senator Sessions: Dr. Kroenig, just one of the things
19 that we have talked about -- I do not believe it is fair to
20 say we are acting on -- is the possibility of configuring
21 our nuclear arsenal with more specialized weapons that
22 might be usable in a circumstance that would be more
23 targeted and less devastating or have other capabilities.

24 Have you given any thought to the wisdom of the United
25 States proceeding in that fashion?

1 Mr. Kroenig: Well, this is an area where I am doing
2 some research now, and I think I share your concerns that
3 it does seem like the United States has a gap in its
4 capabilities at present -- a very strong conventional
5 force, a very strong strategic nuclear force, assuming we
6 modernize it -- but I think a gap in terms of usable
7 nuclear capabilities.

8 And so the scenario I laid out in my testimony was a
9 conflict between the United States and Russia. Russia is
10 planning and exercising to use nuclear weapons on the
11 battlefield. And if that were to happen, if there were --

12 Senator Sessions: So they are planning and exercising
13 in their war games the utilization of nuclear weapons?

14 Mr. Kroenig: That is right. Nearly --

15 Senator Sessions: Which is beyond what we do?

16 Mr. Kroenig: President Putin himself sometimes
17 directly participates in these things.

18 So, if this were to happen, I am afraid that the
19 United States does not really have a good response. We
20 could try to fight through it with conventional
21 capabilities. We could escalate to strategic nuclear
22 warheads, but those are very large warheads. It risks the
23 escalation to a strategic nuclear exchange.

24 It calls to mind something Dr. Henry Kissinger said in
25 the 1950s, that we could be faced with this choice between

1 suicide or surrender. And his argument then was that we
2 needed limited options in between. And I think we are in a
3 similar situation now, where we need to think about what
4 are the limited nuclear options we might be able to deploy
5 in response to a limited Russian nuclear attack. Of
6 course, with the point of deterring that attack in the
7 first place.

8 Senator Sessions: Dr. Krepinevich, do you want to
9 comment on that?

10 Mr. Krepinevich: Yes, to add to what Dr. Kroenig
11 said, and in a sense to draw on what George Perkovich said,
12 if you look at the what some people are calling the second
13 nuclear age or the second nuclear era, it is the ability to
14 assess the balance, if you will, is much more difficult
15 because, as George said, of the introduction of advanced
16 precision weapons, advanced defenses, cyber, and so on.

17 Also because you are looking at a different range of
18 contingencies. You know, a lot of times during the Cold
19 War, we would look at Armageddon. You know, a massive
20 Soviet attack on the United States, and if you could not
21 deter it, it would be the end of the world. We are looking
22 at a wide range of contingencies. And we are also, I
23 think, looking at a different -- needing to, in a sense, to
24 reconstruct the escalation ladder, and I think that is what
25 a number of these questions are getting at.

1 If somebody is competing with us at a particular level
2 in the conflict in the Ukraine, as Dr. Kroenig said, could
3 we escalate horizontally? Do we have an advantage in doing
4 so? Can we escalate vertically or horizontally to a
5 different geographic area?

6 And absent knowing that, absent knowing whether you
7 have the ability to escalate and not jump -- not need to
8 jump a number of rungs to -- I think Dr. Kroenig's point is
9 to using large-yield, large-scale nuclear weapons, you may
10 preclude yourself from having important options.

11 And I think, personally speaking, the fact that we
12 have not matched what some of our competitors are doing in
13 terms of exploring the options for relatively low-yield
14 weapons or weapons with focused effects limits our options,
15 limits the President's options. I am not talking about
16 more nuclear weapons. I am talking about a greater range
17 of nuclear options, if you will.

18 And one thing I would just add, apropos of what was
19 said earlier in terms of, I guess, what Dr. Tellis said, is
20 I think absolutely what he is talking about, and George as
21 well, about having a strong conventional capability so you
22 have options there. I had conversations with Prime
23 Minister Abe's -- one of his senior advisers. And he got
24 very emotional and said, "If we were ever hit with a
25 nuclear attack by North Korea, do not tell me you are going

1 to use precision weapons against the North." He said, "You
2 better use nuclear weapons."

3 Okay, if that is the case and if he really means it, I
4 would rather have the President have the option of using
5 weapons that -- perhaps if they are nuclear but have, you
6 know, very focused, very limited effects, you know, that
7 were necessary to do the job.

8 Senator Sessions: Dr. Tellis, I see you nodding on
9 that. You got a brief --

10 Mr. Tellis: Well, imagine a world where you have an
11 ideal U.S. nuclear deterrent. And to my mind that ideal
12 world would be one where every U.S. nuclear weapon
13 essentially has a selectable yield, and that selectable
14 yield can essentially be --

15 Senator Sessions: A selected yield?

16 Mr. Tellis: A selectable yield, where you can
17 actually dial the yield. And where that selectable yield
18 can be organized or orchestrated essentially electronically
19 without someone having to actually go to the weapon and
20 jimmy it up.

21 I think if you could do that, you give the President,
22 even within the constraints of the current delivery
23 architecture, a whole range of options.

24 Senator Sessions: Well, this is kind of important to
25 us, I think, because we are in a stratified, a calcified

1 process here.

2 So what you are suggesting is it might be better that
3 if we cannot do as you said, altering it in that fashion
4 but actually could create a multiplicity of weapons with
5 different capabilities that would give the President more
6 option, you think we would do well to consider that in our
7 budgetary and defense posture?

8 Could all of you all give a quick -- I see that Dr.
9 Perkovich --

10 Mr. Tellis: Yes.

11 Mr. Perkovich: There are going to be big consequences
12 that, of course, you would want to weigh beyond the budget.
13 I mean, because Matt was talking about lack of capability
14 in Europe, but we are spending -- you tell me -- I think it
15 is \$8 billion to \$10 billion to modernize the B61. And so
16 if that is irrelevant, why are we going to spend \$8 billion
17 to \$10 billion to modernize the -- so you could save money
18 from that and put it into something else.

19 But to do that kind of development and procurement,
20 beyond the budgetary issues, will have reverberations
21 within NATO. You want to reassure the alliance. You will
22 split NATO in many ways. So most of the Western European
23 states will -- in likelihood would protest that. Their
24 parliaments would be mobilized. The Germans would be
25 mobilized. So you would have a political --

1 Senator Sessions: Their theory is it would be more
2 likely to be used, and so you should not have that option?

3 Mr. Perkovich: Exactly. Exactly. And so you get a
4 political fissure within NATO. I am not saying not to do
5 it. I am saying you would want to calculate that.

6 For every Japanese official who is worried -- and I
7 have talked with them, too -- like Andrew posits about a
8 threat, you have also got a big constituency in Japan that
9 is anti-nuclear, pro-disarmament, and so on. So you would
10 have to deal with the implication of that.

11 You would have to deal with how the Chinese would
12 react. How this is a new capability, so they are going to
13 have to counter it. So how do they counter it? How does
14 their counter affect what India does? How does that play
15 back into Pakistan? And so all of that kind of assessment
16 would have to go into a decision to change course.

17 Now, you may still want to do it, but it is not risk
18 free is what I would say.

19 Senator Sessions: Well, I thank you. I have heard a
20 little bit of that.

21 Senator Donnelly?

22 Senator Donnelly: Thank you, Mr. Chairman.

23 Mr. Kroenig, I want to be careful here because I do
24 not want to go into classified areas. But we have low-
25 yield weapons as well, don't we?

1 Mr. Kroenig: We do, yes. We have the B61 gravity
2 bombs in Europe, as George pointed out. My concern there
3 is that if Russia used a single nuclear weapon, there are
4 some problems with using the B61 to retaliate.

5 Senator Donnelly: There are other missiles, too,
6 though, right?

7 Mr. Kroenig: There are some air-launched cruise
8 missiles that are based in the United States. But given
9 that they are based in the United States, I think that
10 causes some limits in terms of their ability to function as
11 a deterrent and an assurant in Europe.

12 And I should point out that in my testimony, I do not
13 recommend any specific changes, but I think that we should
14 consider these changes. You know, we are essentially in a
15 third phase in our relations with Russia.

16 Senator Donnelly: Well, at what point when you look
17 at Putin, what he is doing, is he trying to change the
18 discussion?

19 They have lost a lot of their territory. They want to
20 be viewed in a different way. When you look at him -- and
21 you know, a lot of people could make a lot of money trying
22 to figure this guy out. But when you look at him, do you
23 think he reasonably thinks that he can use manageable
24 nuclear weapons and not wind up in a total conflagration of
25 his country?

1 Mr. Koenig: Based on the way they plan and exercise,
2 I think there is a belief that they could get away with a
3 tailored use of nuclear weapons in the event of a major
4 confrontation with NATO.

5 So, again, it is not a likely scenario, but nuclear
6 deterrence is really about, you know, dealing with these
7 unlikely, but dangerous situations.

8 Senator Donnelly: My expectation is that if Mr. Putin
9 thought that, he would be quickly corrected. And that it
10 would cause one of the most dangerous situations ever seen
11 in this world, and I would think that reasonable Russian
12 leadership would remove him if he tried to move forward
13 with that kind of thing.

14 Mr. Koenig: We could hope for that. I think it would
15 be better to have the capabilities in place to deter that
16 kind of response in the first place rather than have them
17 tempted to go down that route and get into a larger
18 confrontation.

19 Senator Donnelly: So you mentioned suicide. Do you
20 think we are in a suicide or surrender situation in this
21 country?

22 Mr. Kroenig: I think if Russia uses tactical nuclear
23 weapons, we do not have a very good response, and so --

24 Senator Donnelly: With all of the materials we have,
25 with the nuclear submarines we have, with the triad that we

1 have, you really believe that?

2 Mr. Kroenig: Well, as I pointed out, I think the
3 problem with the triad is these are large-yield weapons,
4 and so I think that would not have the maybe kind of
5 tailored effect that we might want. And in addition, it
6 raises the possibility that Russia would then retaliate
7 with its own strategic weapons.

8 And so, again, I think having -- I think we have this
9 gap in our capabilities, and closing that gap would provide
10 a better deterrent.

11 Mr. Perkovich: Can you use cyber? I mean, why does
12 it have to be nuclear? We have all sorts of other
13 capabilities.

14 What is it that you want to take down, and there are
15 all sorts of ways that you could take it down that do not
16 even necessarily have to be a nuclear weapon.

17 So is there something that from a deterrent point of
18 view -- and there may be -- requires it to be a mushroom
19 cloud, or is it to actually incapacitate targets?

20 Mr. Kroenig: Well, I think these are exactly the kind
21 of questions and discussions we should be having, and I
22 have an ongoing study on this, looking at what the best
23 responses might be.

24 But, you know, our current capabilities were put in
25 place at the end of the Cold War. All of our assumptions

1 about the strategic environment at the end of the Cold War
2 were that nuclear weapons -- the threat of nuclear use
3 between major powers was low. The threat of conflict with
4 Russia was remote, I think was the language we often used.
5 And most people agreed that the strategic environment has
6 fundamentally changed in the past year.

7 And so I think we need to think seriously about what
8 that means for our capabilities. It is possible that we
9 will say that everything we had been doing is exactly right
10 and we should continue to do it, even though the strategic
11 environment has fundamentally shifted. My hunch is that,
12 given that the strategic environment has fundamentally
13 shifted, we will have to change the way we do business.

14 Senator Donnelly: Let me ask you about follow-up on
15 Senator King's question about providing defensive weapons
16 to Ukraine. What do you think the effect -- and this would
17 be for all of you -- what do you think the, you know -- I
18 would like to get your ideas. What do you think Russia's
19 response to that would be?

20 Mr. Kroenig: Would you like me to begin?

21 Senator Donnelly: Sure.

22 Mr. Kroenig: Well, I do think that we should provide
23 defensive weapons to the Ukrainians. I think we should
24 give them the ability to defend themselves. And it is
25 difficult to know what Russia's response would be exactly,

1 but the purpose would be to raise the cost to Russia.

2 I think the worst thing for NATO would be if all of
3 Ukraine fell to Russia. I do not think that is likely in
4 the short term. But if all of Ukraine were to fall to
5 Russia, you can just look at the geography. The rest of
6 NATO would be very much in danger.

7 So I think doing little things to raise the cost to
8 Russia are in the United States' interests.

9 Senator Donnelly: I am out of time, but if we could?

10 Dr. Perkovich?

11 Mr. Perkovich: In principle, nothing would make me
12 feel better than to colossally humiliate and emasculate
13 President Putin. So, like, I think about ways to do it all
14 the time.

15 My worry is it would have the reverse effect, and this
16 goes to something Senator King said. Given the geography,
17 given the way that he can operate free of a lot of the
18 political, legal, and other constraints that we have, if
19 one does something that provokes him to feel like he is
20 going to feel even taller as he responds to providing
21 defensive arms to Ukraine -- so he comes back harder and
22 says, "We've never been in Ukraine, but now that NATO has
23 come into Ukraine, we can actually put Russian forces into
24 Ukraine," then you have lost that round. It is chess.

25 So then you come back -- at some point, we have to

1 confront the possibility of needing to put air power in as
2 a way to deal with it. But then you run into air defenses
3 and losing pilots.

4 So unless you have got it figured out, how you do all
5 the escalation so that you kick his -- at every step of the
6 way, then why gratify him by going another move that allows
7 him to humiliate the West further, seems to me very
8 counterproductive to an objective, which I would totally,
9 totally share, which would be to humiliate him.

10 Senator Donnelly: Thank you, Mr. Chairman.

11 Senator Sessions: Well, let us finish up.

12 Dr. Tellis, do you want to have a brief comment on
13 that?

14 Mr. Tellis: I share Mr. Perkovich's view, which is if
15 there was a cheap and easy way to put Mr. Putin back in a
16 box, I am all for it.

17 The problem we have is this. Whatever assistance we
18 contemplate giving the Ukrainians, do we really believe
19 that that assistance by itself will raise the costs to
20 Russia sufficiently to cause Mr. Putin to cease and desist?
21 If we believe that to be the case, there is a compelling
22 argument for providing the aid.

23 If we believe, on the other hand, that this is only
24 going to be a provocation that will cause Putin to double
25 down on what he is already doing, then you do not do this

1 unless you are prepared to take the fatal next step, which
2 is to introduce NATO or other Western forces to protect the
3 Ukrainians, because they are going to be at the business
4 end of a very severe Russian counter response.

5 So my view is we should aid them, but if we aid them,
6 we should do it with full malice aforethought. We need to
7 know what we are getting into, and we need to be prepared
8 to pay the price of what will be required to actually stop
9 them.

10 Senator Sessions: Thank you.

11 Dr. Krepinevich, I think you also wanted to comment on
12 a previous point.

13 Mr. Krepinevich: I think a key issue with respect to
14 Ukraine is just -- and I think Ashley was kind of alluding
15 to this -- how serious are the Ukrainians?

16 If they are serious as a heart attack, we have seen
17 recently what even modest amounts of decent military
18 equipment can do to an invading force attempting to occupy
19 another country, whether Iraq or Afghanistan or the
20 Israelis moving into Lebanon in 2006 in the Second Lebanon
21 War. So if they are serious, we have the kinds of
22 equipment that can be very useful for resistance forces,
23 that can buy us a lot of time to get our house in better
24 order and among our Eastern European NATO allies, that can
25 impose dramatically disproportionate costs on the Russians.

1 So, again, it depends in my mind on just how serious
2 the Ukrainians are. But we can equip them. We do not have
3 to -- you know, we can train them outside of Ukraine.
4 There are a number of things we can do and, quite frankly,
5 we have done it before with some success. But I do think,
6 as Ashley said, it requires some serious thinking up front.

7 As far as the issue of whether new or different kinds
8 of nuclear weapons would help us in the competition with
9 the Russians, I guess my feeling is, bottom line, do you
10 want to buy yourself some more options or don't you? And
11 you know, can you make the case -- as George was pointing
12 out, you create a bit of dilemma. Can you make the case to
13 your allies that by buying more options, that increases the
14 odds we will not have to use these weapons? Or that we
15 will be put in a position, as Matt was saying, of either go
16 places you do not want to go or surrender, to paraphrase
17 Henry Kissinger.

18 And the other point I would make is there have been a
19 lot of advances in both the social and the cognitive
20 sciences over the last 20-25 years. Two individuals,
21 Kahneman and another, won a Nobel Prize in 2002 for
22 pointing out the fact that there is no such thing as
23 "rational economic man," that human beings are in many ways
24 irrational.

25 There has also been done -- accomplished recently in

1 the social sciences -- some work looking across cultures at
2 how people from different cultures calculate cost, benefit,
3 and risk. And obviously, each person within a culture is
4 an individual, but by and large how different cultures tend
5 to view things. And in some respects, they can be very
6 different from the way we view things.

7 And so the notion that somehow strategies of
8 deterrence and signaling and so on are going to prove
9 effective over time, certainly Chamberlain thought he was
10 signaling Hitler, I am sure, and thought he had the measure
11 of him. Franklin Roosevelt thought he understood Stalin.
12 We still do not understand why Saddam did the things he
13 did. We think some of them are wholly irrational, I would
14 think.

15 And so to sit here and say that somehow Putin thinks
16 like us, and of course, he would never do these things.
17 History is replete with despots and dictators doing things
18 we never thought they would do. And yes, Khrushchev was
19 removed by his Soviet colleagues in 1964. Unfortunately, 2
20 years earlier, he precipitated the Cuban Missile Crisis
21 that almost blew the world up.

22 Senator Sessions: Well, thank you.

23 And now, I will go to you next. You can have my time
24 next.

25 I would just think that that is wise advice. We had a

1 hundred years ago a shooting of an archduke, and we ended
2 up with the most incredible war that anybody had ever
3 imagined at the time.

4 On the arming in Ukraine, it is interesting.
5 Brzezinski, Albright, Flournoy have all testified in recent
6 weeks before our committee that we should -- Democrats.
7 And Secretary Kissinger is cautious. And the Germans, Dr.
8 Perkovich, share your view entirely because I was at their
9 embassy not long ago, and they were asked and the
10 ambassador explained their position. So it is a complex
11 world we are in.

12 Senator King, do you want to --

13 Senator King: Well, Dr. Krepinevich, I would like to
14 follow up on your comment.

15 I think often the fault of American foreign policy is
16 thinking that other people think like us and not
17 understanding what cultural and historic differences, and
18 that is why I am so cautious about Putin. There is, I
19 don't know, 500, 600 years of Russian paranoia going back
20 to Peter the Great about the West. Putin's approval rating
21 in Russia today is 80 percent.

22 I would venture to say if we came into the Ukraine in
23 a visible way, it would go to 90 percent because it is a
24 nationalistic thing that is just part of our history. And
25 I share the chairman's concern about mistakes and

1 accidents.

2 We heard in our caucus lunch yesterday about Pleiku, a
3 little town in Vietnam, where there was an attack in 1965.
4 Six Americans were killed. And as a result of that attack,
5 President Johnson believed that this was directed from
6 North Vietnam, and it justified the bombing campaign and
7 then the introduction of American troops.

8 It turned out 40 years later, it was a randomly
9 generated local conflict. The whole premise of the
10 escalation was incorrect. And that is what really concerns
11 me about the Ukraine, particularly when you are dealing
12 with a place where they have the upper hand in terms of the
13 assets available and readiness -- readily available.

14 I think I want to, though, just come to some
15 consensus. Is it fair to say that all of you agree that we
16 must modernize our nuclear capacity, and secondly, we must
17 look to greater flexibility in terms of the nuclear
18 deterrent? Is that a fair summary?

19 Mr. Perkovich: Modernization, yes. Flexibility,
20 would depend profoundly on how -- and these other effects
21 that I am talking about, because -- but modernization, yes.

22 Senator King: Dr. Kroenig, that is certainly your
23 position, is it not?

24 Mr. Kroenig: Yes. Modernization and flexibility.

25 Senator King: Thank you.

1 Mr. Krepinevich: Yes.

2 Senator King: Thank you.

3 Thank you, Mr. Chair.

4 Senator Sessions: Thank you.

5 Well, just to proceed a little further, Dr. Kroenig
6 and Dr. Tellis.

7 Dr. Tellis hypothesized -- raises the hypothetical
8 that there is an attack on Japan, and we are obligated to
9 respond forcefully on North Korea. If we have a less
10 devastating, more technical weapon, we can honor our
11 requirements, maybe do the necessary job without doing as
12 much destruction as a strategic nuclear weapon might do.

13 Dr. Kroenig came up with another one I had not thought
14 about, which is what if the Russians use a tactical nuclear
15 weapon in the Ukraine, and do we have a tactical nuclear
16 weapon response, short of a massive strategic response?

17 I had not thought of either one of those examples
18 before, but I think it is something for us to think about.

19 As I understand where we are today, the administration
20 favors modernization, but it takes Dr. Perkovich's view
21 that specialization or new weapons, even if they are less
22 dangerous and safer and all that, represent some sort of
23 alteration of our strategy that would cause dominoes around
24 the world to be moved. But I am not sure I agree with
25 that, but that is where we are.

1 And so the budget that has come over, and we have not
2 energized any plan to challenge the President or push him
3 harder, but maybe we should in the months to come and
4 really insist that we discuss this, and is it smarter to
5 have more options or not have more options? So that is --

6 Dr. Tellis?

7 Dr. Tellis: I would just like to respond to that
8 because I accept the basic argument that Senator Donnelly
9 is making, that the U.S. arsenal certainly has weapons of
10 varying yield, including low yields.

11 What I do not have an answer to, at unclassified
12 levels certainly that I can think of, is whether these
13 weapons meet the tests of responsiveness and penetrability.
14 And I think that is really what you need to think about in
15 a different forum. And if you conclude that the low-yield
16 weapons or the weapons that have selectable yields meet the
17 requirements of responsiveness and penetrability, then I
18 think we are home free, and we do not have to worry about
19 this.

20 But in general, I think the point that Dr. Krepinevich
21 made is really the central point, which is, do you want to
22 be in a position where you have more options rather than
23 less, particularly as you enter a nuclear world where most
24 of the emerging nuclear powers are going to have weapons
25 that are relatively small in yield and, you know, in small

1 numbers?

2 And so as you think of this new world that is emerging
3 out there, the questions that Dr. Kroenig is asking is
4 whether the legacy force can actually deal with these
5 contingencies without modification. Now I do not know
6 whether this requires us to actually go back and develop
7 new warheads or whether we can simply tinker with what we
8 have in the back rooms. But these are questions that I
9 think need to be addressed in classified settings with
10 folks in STRATCOM.

11 Senator Donnelly: Yes, there are a lot of classified
12 settings to address these in. I guess, you know, we talk
13 about people, in effect, almost riding by each other
14 without understanding that they just stopped on the same
15 street.

16 I would think, and maybe it is for publication, if
17 President Putin would ever think that he could use a low-
18 yield nuclear weapon on another country without
19 catastrophic events then beginning from that, I think he
20 would be sadly mistaken, that every other leader in our
21 network of friends would take action.

22 And I think -- I would hope, you know, as you talk
23 about this, it is a different culture. It is a different
24 way of thinking. It is in many ways sometimes ships
25 passing in the night, but one ship needs to tell the other

1 ship, "If you do this, all bets are off."

2 Dr. Perkovich?

3 Mr. Perkovich: Just to reinforce -- and I agree with
4 Ashley, you would want to do these studies. You would also
5 want to ask all the different commands, like, given \$10
6 billion for this or for that, how would you spend the
7 money?

8 But beyond that, in my travels -- and I have been to
9 all the countries that we are talking about -- Iran, not
10 North Korea, but all of the targets. I do not think their
11 leaders are going to discriminate between whether it was
12 100 kilotons or 12 kilotons, and so on. And I do not think
13 if a device goes off, you know, over at the Pentagon and we
14 are sitting here, somebody is going to say, "Don't worry,
15 it was only 30 kilotons, you know, it wasn't a big one."

16 So I think it is a game theoretic calculation in a lot
17 of ways, and that this is something the Chinese and others
18 understood all along. They have got their 250 weapons, we
19 have got our 2,200 -- that you do not need to have -- that
20 they are political weapons, and the distinctions about
21 yields and all of that are something that people like us
22 get paid to think about, but political decision-makers in
23 an actual event when they are going off probably are not
24 going to be making those distinctions in the way that they
25 then react. And so I would factor that into the

1 discussion, too.

2 Senator Sessions: Now, Dr. Krepinevich, what about
3 the triad? Some think we could get by without the full
4 triad. Maybe the nuclear subs and/or something in
5 addition.

6 Do you four have an opinion as to that? It is not as
7 expensive as you -- as some people imagine, but it is an
8 expensive proposition.

9 What are your thoughts about the triad?

10 Mr. Krepinevich: My thought is that until we identify
11 a range of contingencies, realistic contingencies that
12 reflect the circumstances that myself and my colleagues
13 have been describing here, and test the arsenal against
14 those contingencies or scenarios, I would be loathe to
15 abandon any of the legs of the triad.

16 I think the bomber leg gives us an enormous amount of
17 flexibility. The submarine leg certainly, perhaps, allows
18 us to sleep most securely at night. And the land-based
19 missile force, to a certain extent, acts as kind of a
20 missile sump because if you look historically at the
21 studies of nuclear attack and so on, that it gives us the
22 ability to absorb a lot of an adversary's nuclear
23 capability if they want to undertake a first strike against
24 us.

25 So, again, I think we are putting the cart before the

1 horse if we are talking about abandoning a particular leg
2 of the triad without looking at the new circumstances in
3 which we find ourselves, and how we would deal with those
4 circumstances across a range of plausible contingencies.

5 Senator Sessions: Thank you, and I will go to you,
6 but do any of the other three want to share briefly?

7 Senator Donnelly: I apologize. I have to go to
8 another meeting right now.

9 But I want to thank all of you. We are in your debt
10 for your service, for your efforts to inform us in the best
11 possible decisions we can make. And I want to thank you so
12 much for taking the time to be here.

13 Thank you.

14 Senator Sessions: Dr. Kroenig?

15 Mr. Kroenig: Yes, on the triad, I would agree that
16 each leg of the triad has special attributes and
17 characteristics and that our nuclear force would be weaker
18 if we got rid of any of the legs. I do think we need all
19 three.

20 You mentioned the cost issue as well, and I think
21 according to most estimates, we spend something like 4
22 percent of the defense budget on the strategic forces. And
23 given, as Dr. Tellis said, that it is really the backstop
24 of the rest of our defensive capabilities, I think that is
25 well worth it.

1 And even Secretary of Defense Carter has been on the
2 record to say that I think the quote is, "Nuclear weapons
3 don't actually cost that much." So I think these arguments
4 that they are too expensive miss the mark.

5 Senator Sessions: He shared that with me recently,
6 and I share that view.

7 Are there any of you like to comment on that?

8 Mr. Perkovich: My only thing would be, I agree with
9 you, one would study it. It would be progress if we could
10 make it, and you could help make it, not a holy trinity.
11 In other words, that it is -- the triad is something that
12 should be scrutinized, analyzed, and you come up with
13 strong justification, you keep doing it. But for a long
14 time it has been something you could not question, and I
15 think that would be progress to say we ought to analyze it
16 and not prejudge one way or the other. That would be
17 progress.

18 Mr. Krepinevich: I just would like to say, Mr.
19 Chairman, my colleague Todd Harrison and Evan Montgomery
20 are working on a cost estimate of the nuclear enterprise,
21 and we are looking to release that estimate in April.

22 Senator Sessions: Well, that was going to be my final
23 question to ask all of you, knowing what you know about the
24 budget, the President's budget is public, to give us any
25 thoughts about what the priorities should be and if it is

1 sufficient.

2 Dr. Tellis, do you want to --

3 Mr. Tellis: Senator, I cannot speak to the issues of
4 cost. So I will defer to Dr. Krepinevich on that.

5 But I wanted to just make the point that when one
6 looks at the nuclear trend lines 10-20 years out, there is
7 nothing that compels me to conclude that you can move away
8 from the triad anytime soon. And so I hope that is
9 something that we will continue to invest in.

10 Senator Sessions: Thank you.

11 I am, frankly, of the view that there is uncertainty
12 about the United States' will around the world. I do not
13 think it is correct, but there is a growing uncertainty out
14 there. And I think that any significant reduction in our
15 nuclear capabilities could be misread at this point in
16 history in a way it might not be misread previously, like
17 Nixon going to China kind of insight.

18 And I also have been -- Dr. Krepinevich, I have been
19 watching the defense budget, trying to be hard on them, but
20 likewise, I am a little bit of the view that things are
21 getting dicey around the world. People think we are on a
22 pell-mell collapse of will, and even the defense budget, if
23 it is cut -- if it is perceived as being reduced too
24 significantly could be improperly perceived as weakness.

25 Because I think we can maintain a lean-type budget.

1 With this fabulous military, this battle-hardened, fully
2 equipped military that we have, and highly trained, I do
3 not think we are heading pell-mell to weakness. But I am
4 worried we got people in the United States that think so,
5 and we got people around the world that share that concern.

6 Thank you for this fascinating and fabulous comments
7 you shared with us. Again, if you have any thoughts that
8 you would like to share, I would appreciate receiving them.

9 I would also say that we have a good subcommittee and
10 a good committee that I do think wants to do the right
11 thing, and politics has not been a big factor in recent
12 years on nuclear issues, and I hope we can keep it that
13 way.

14 Thank you.

15 [Whereupon, at 4:25 p.m., the hearing was adjourned.]

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