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Before the

Subcommittee on Strategic Forces

COMMITTEE ON
ARMED SERVICES

UNITED STATES SENATE

HEARING TO RECEIVE TESTIMONY ON THE FUTURE
NUCLEAR POSTURE OF THE UNITED STATES

Wednesday, January 27, 2016

Washington, D.C.

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HEARING TO RECEIVE TESTIMONY ON
THE FUTURE NUCLEAR POSTURE OF THE UNITED STATES

Wednesday, January 27, 2016

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

The subcommittee met, pursuant to notice, at 2:31 p.m. in Room SR-232A, Russell Senate Office Building, Hon. Jeff Sessions, chairman of the subcommittee, presiding.

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

Other Senators Present: Cotton and Sullivan.

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

3 Senator Sessions: The meeting will come to order.

4 Senator Donnelly is on the way, and I think we'll just
5 proceed with some preliminaries.

6 I thank our colleagues for coming. And it's an
7 opportunity today to examine the future of America's nuclear
8 force posture with a rock-star panel, I've got to say.
9 These are four individuals who have served different
10 administrations, who have been deeply involved in this
11 issue, have thought about them, written about it, and, I
12 think, will be a real asset to our committee as we go
13 forward.

14 So, we've asked the witnesses to provide an assessment
15 of the continuities and changes in the U.S. nuclear posture,
16 with an eye toward what we've gotten right and what policies
17 or assumptions have not been borne out by recent events.

18 As I believe Mr. Miller just noted as we talked about
19 the grimness of this subject, it's -- for 60 years, there's
20 a lot that can be said as to how this policy of nuclear
21 deterrence has helped protect the peace.

22 More important, we've asked for the panel's thoughts on
23 how the current nuclear posture should be changed to address
24 the strategic environment as it may evolve over the next 25
25 years. In other words, what should be the major

1 considerations and content of any nuclear review to be
2 conducted by the next President?

3 From my perspective, there have been at least three
4 constants in U.S. nuclear policy across Republican and
5 Democratic administrations over the past quarter century.
6 The first constant has been the enduring necessity for a
7 triad of land, air, and sea-based nuclear forces to deter
8 threats to vital U.S. interests and to assure allies of U.S.
9 security commitments.

10 Second -- and this is often forgotten by anti-nuclear
11 groups -- there has been a shared objective to reduce the
12 U.S. nuclear stockpile from Cold War highs to the lowest
13 number of nuclear weapons consistent with maintaining U.S.
14 nuclear deterrence and assurance objectives.

15 Third constant. Unfortunately, there has been a
16 consistent decline in leadership focus and funding for
17 America's nuclear forces and the nuclear laboratory and
18 production complex, perhaps in the misguided belief that,
19 with the end of the Cold War, nuclear deterrence was no
20 longer a national priority. And I think we've observed that
21 our unilateral reductions have not resulted in world
22 reductions of nuclear weapons, but, in fact, more
23 proliferation.

24 Congress has demonstrated over the last few years a
25 strong commitment to fund the nuclear modernization plans of

1 the Obama administration. Now, that's a commitment that the
2 President has made, and we need to make sure it goes
3 forward. It's probably a minimum action, but it's --
4 essentially does, I think, where -- what we have to do.

5 Each leg of the nuclear triad is being replaced,
6 hopefully before this Cold War-era force reaches the end of
7 its service life. And a very large sum of money is
8 programmed to refurbish nuclear warheads and bombs that have
9 far outlasted their intended lifetimes and to replace
10 nuclear handling facilities, some of which date back to the
11 dawn of the Nuclear Age. And indeed, however, the sums of
12 money spent on our nuclear warheads and our triad is
13 relatively small in light of the entire defense budget.

14 So, I thank our committee members from being here.

15 Senator Cotton, we're glad to have you. You're going
16 to find that you've got four of the truly -- true experts on
17 this subject before us today.

18 Senator Cotton: I do thank you.

19 Senator Sessions: So, we'll proceed with a 5- to 7-
20 minute opening statement by each of our witnesses, in this
21 order:

22 Dr. John Harvey is a former Deputy Secretary of Defense
23 for Nuclear and Missile Defense Policy in the Clinton
24 administration, and former Principal Deputy to the Assistant
25 to the Secretary of Defense for Nuclear, Chemical, and

1 Biological Weapons in the Obama administration, and former
2 Director of Policy Planning Staff of the NNSA. He also had
3 contributed valuably to our discussions about improving our
4 laboratories and our modernization.

5 Dr. Keith Payne, the CEO and President of the National
6 Institute for Public Policy, formerly Deputy Assistant
7 Secretary of Defense in the Bush administration, helped
8 write the 2001 Department of Defense Nuclear Posture Review
9 in the Bush administration, and was a key member of the
10 Perry-Schlesinger Report in, what, 2009, that was -- really
11 helped us reach a bipartisan consensus on nuclear posture.

12 Dr. Brad Roberts is the Director, Center for Global
13 Security Research, Lawrence Livermore National Laboratory,
14 former Deputy Assistant Secretary of Defense for Nuclear and
15 Missile Defense Policy in the Obama administration. I
16 believe you've got your book out now. Is it -- "Care for"
17 -- "The Case for Nuclear Weapons in the 21st Century." It's
18 an important subject. Thank you for that.

19 Mr. Frank Miller, the Principal of the Scowcroft Group,
20 former Senior Director for Defense Policy and Arms Control
21 for the National Security Council, 2001 through 2005, and
22 senior civilian defense official responsible for nuclear
23 matters in the Bush and Clinton administrations.

24 So, we do have a good panel, indeed.

25 Senator Donnelly, I just did a brief opening statement,

1 and I would yield to you for your opening comments at this
2 time, before we hear from the panel.

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

3 Senator Donnelly: Thank you, Mr. Chairman.

4 I want to thank our witnesses for agreeing to appear
5 today before the committee. Over many years, we've sought
6 your counsel on our Nation's nuclear deterrent. Today is no
7 different.

8 I also understand a number of you have worked side by
9 side with a prestigious Hoosier who is also my good friend,
10 Jonathan George. So, he sends his best wishes.

11 At the beginning of every administration, there are a
12 host of pressing national security issues that must be
13 addressed, but, as Secretary Harold Brown once observed,
14 then there is also the question of nuclear weapons. No
15 other issue garners as much debate and thought on their
16 force structure and possible use. And rightly so.

17 Today, you have the opportunity to once again give this
18 committee advice on a topic that forms the foundation of our
19 national security and that of our allies. This is a time
20 for us to learn and reflect on a topic that is at the very
21 core of our national security debate.

22 Again, I'd like to thank Senator Sessions for arranging
23 this hearing. I look forward to another productive year of
24 work in this subcommittee, where we have built such a strong
25 bipartisan consensus on our nuclear posture,

1 nonproliferation efforts, and missile defense.

2 Thank you, Mr. Chairman.

3 Senator Sessions: Thank you.

4 All right. Dr. Harvey?

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1 STATEMENT OF JOHN R. HARVEY, FORMER PRINCIPAL DEPUTY
2 ASSISTANT SECRETARY OF DEFENSE FOR NUCLEAR, CHEMICAL, AND
3 BIOLOGICAL DEFENSE PROGRAMS

4 Dr. Harvey: Chairman Sessions, Ranking Member
5 Donnelly, members of the committee, thanks for the
6 opportunity to testify before you today about the future
7 nuclear posture of the United States.

8 My statement today reflects almost an entire career
9 working on nuclear deterrence. Most recently, from 2009 to
10 '13, I was Principal Deputy Assistant Secretary under Ash
11 Carter, then the Under Secretary. I was his go-to person
12 for the 2010 Nuclear Posture Review, and, more generally,
13 for oversight of the Nuclear Stockpile and for programs to
14 modernize delivery platforms and nuclear command and
15 control.

16 I request that my written statement be entered in the
17 record. It --

18 Senator Sessions: We will make it part of the record.

19 Dr. Harvey: Its basic points are as follows:

20 In recent years, our government has made great progress
21 in advancing a comprehensive strategy to sustain and
22 modernize U.S. nuclear forces. The President has sought
23 significant increases in modernization programs. In very
24 large part, Congress has funded these programs and, as it
25 should, has held the administration accountable for

1 sustained progress. A bipartisan consensus on
2 modernization, although fragile and very narrowly focused,
3 has emerged, and my written statement speaks about how this
4 has come to be.

5 Job number one now, however, is to preserve this
6 consensus and, if possible, bolster it in the face of two
7 daunting challenges. First, in a decades-long modernization
8 effort, we begin the climb up the bow wave of needed
9 investment that peaks in the late 2020s. Second, and most
10 importantly, is the challenge of sustaining momentum and
11 consensus in the transition over the coming year to the next
12 President. The nature and scope of the 2017 Nuclear Posture
13 Review will be a factor in meeting these challenges.
14 Continued close attention and bipartisan support from
15 Congress will be essential.

16 In light of the evolving global security environment,
17 the next President will likely direct a review of nuclear
18 posture. Congress has three options to consider in seeking
19 to shape that review. First, it could take no action. That
20 is, leave it up to the direction of the -- discretion of the
21 next President. Second, it could direct the next
22 administration to conduct a nuclear review, with specified
23 terms of reference, and deliver a report by a date certain
24 on the way ahead. Third, it could establish a new
25 bipartisan commission to inform the nuclear review --

1 independent commission -- to inform the nuclear review of
2 the next President.

3 In considering options, the three previous NPRs, those
4 concluded by Clinton in 1994, Bush in 2001, and Obama in
5 2010, reflect much more continuity than change. All
6 concluded that a triad of strategic forces, of nuclear
7 forces, and Europe-basing of U.S. nuclear bombs carried by
8 NATO dual-capable aircraft, were essential to both strategic
9 and extended deterrence. All concluded that a hedge
10 capability was needed to respond to unanticipated technical
11 problems or to adverse geopolitical changes requiring force
12 augmentation. All agreed that deterrence could not be based
13 solely on the existence of nuclear forces. Rather, it
14 depends on the ability of forces to hold at risk assets most
15 valued by an adversary. And finally, this meant that force
16 capabilities mattered, and all understood that these
17 capabilities might need to be adjusted as adversary target
18 sets and employment strategies evolved.

19 Given this continuity in policy, given the current, if
20 fragile, consensus on modernization, and given the
21 successful bipartisan review carried out by the Perry-
22 Schlesinger Panel in 2009, a new bipartisan commission is
23 not needed, nor would its work be timely. Rather, the next
24 President should update the conclusions and recommendations
25 of the 2010 Nuclear Posture Review, based on the global

1 security environment as it has evolved since that review.

2 The committee asked for views of major considerations
3 for the next Nuclear Posture Review. Very importantly, that
4 review should open the aperture on issues that the Obama
5 team has put to bed, based on its assessment of the future
6 security environment. It must also manage the downside risk
7 that certain recommendations could rupture existing
8 consensus on today's modernization program.

9 Regarding Russia, my colleague, Keith Payne, is going
10 to go into more detail about Russia, but let me make just
11 one brief point. Russia has an active strategic
12 modernization program underway. More of a concern than
13 Russia's modernization program, however, is its evolving
14 nuclear strategy. If Russia really believes that it could
15 escalate its way to victory, say in restoring the Baltics to
16 Russian rule, then it must be set straight. No conceivable
17 advantage and incalculable downside risks would accrue from
18 any nuclear use against NATO. The next NPR should determine
19 whether existing U.S. declaratory policy in this regard
20 needs to be refined or clarified.

21 I highlight other major issues for review and
22 resolution. How many ICBMs should we deploy at how many
23 bases to meet the security needs while maintaining a robust
24 cadre and career path for ICBM operations? Can ballistic
25 missile modernization be leveraged to reduce costs via a

1 smart approach to common ICBM and SLBM components? Is
2 additional modernization needed to convey a critical
3 message? That is, U.S. nuclear forces cannot be neutralized
4 by attacks, whether kinetic or cyber, on the nuclear
5 command-and-control system. In light Asian security
6 developments and the continuing challenge of assuring
7 allies, should we seek allied support and concurrence on a
8 plan to demonstrate the ability to deploy U.S. nuclear
9 weapons and dual-capable aircraft to bases in the Republic
10 of Korea and Japan?

11 There are two looming questions regarding stockpile
12 modernization. First, do we need nuclear warheads with new
13 or different military capabilities? Second, do we need to
14 retain capabilities to develop and produce such warheads, if
15 required? My short answer to the first question is,
16 "Maybe." To the second, it is, "Most assuredly," and we
17 must do more to achieve this objective.

18 My written statement elaborates on these issues and
19 raises a few others.

20 Mr. Chairman, some NPR issues will be controversial
21 and, thus, pose a risk to a continuing consensus on
22 modernization. That does not mean the next NPR should not
23 study them. Rather, all of the security implications of
24 alternative courses of action must be vetted before
25 proceeding carefully and with transparency to any

1 recommended changes in posture. This can best be achieved
2 with a Nuclear Posture Review that integrates all elements
3 of nuclear security, not just force posture; embraces all
4 agencies with national security equities, as well as allies;
5 and communicates clearly with Congress and the American
6 public.

7 Thank you very much.

8 [The prepared statement of Dr. Harvey follows:]

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1 Senator Sessions: Thank you very much.

2 Dr. Payne.

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1 STATEMENT OF KEITH B. PAYNE, PRESIDENT AND CO-FOUNDER,
2 NATIONAL INSTITUTE FOR PUBLIC POLICY

3 Dr. Payne: Thank you. I greatly appreciate the honor
4 of participating in today's hearings. I thank Chairman
5 Sessions and Ranking Member Donnelly for the opportunity.

6 I'd like to start by noting that there has been an
7 overwhelming bipartisan consensus on U.S. nuclear policies
8 for the last five decades. The debates that we have had
9 typically have not been over fundamental issues. For
10 example, there is a longstanding agreement that two primary
11 roles for U.S. nuclear weapons are to deter enemies and to
12 assure allies. And from a broad agreement on those two
13 goals follow many points of consensus about what we say and
14 what we do with regard to nuclear capabilities.

15 For example, because there are a variety of nuclear
16 attacks that must be deterred, and no one knows the minimum
17 U.S. capabilities necessary to deter, it is a longstanding
18 bipartisan consensus in support of hedging, flexibility,
19 diversity, and overlapping U.S. deterrence capabilities.
20 Every Republican and Democratic administration for five
21 decades, including the Obama administration, ultimately has
22 understood the value of hedging flexibility, diversity, and
23 overlapping U.S. deterrence capabilities, and ultimately
24 rejected calls for a minimalist approach to deterrence and
25 deterrence requirements. From that consensus then follows

1 our longstanding support and broad agreement in favor of
2 sustaining a nuclear triad of bombers, land-based, and sea-
3 based missiles.

4 Similarly, from the agreed fundamental nuclear policy
5 goal of assuring allies follows the continuing consensus
6 behind sustaining some U.S. nuclear forces that are forward-
7 deployed, such as our DCA in Europe, or forward-deployable,
8 depending on local conditions and history.

9 These points of fundamental consensus remain with us
10 today. There are, nevertheless, some recent and
11 unprecedented developments that justify, I believe, a new
12 DOD review of U.S. deterrence policy and requirements since
13 the earlier Nuclear Posture Reviews. For example, we need
14 to recognize that the optimistic post-Cold-War expectations
15 about Russia that dominated earlier thinking do not reflect
16 contemporary realities. And we should review U.S. policies
17 accordingly. To be specific, Russian President Putin's
18 strategic vision for Russia is highly destabilizing. It
19 includes the reestablishment of Russian dominance of former
20 Soviet territories via Russification and the use of force,
21 if needed, if not by preference. Most disturbing in this
22 regard is that Moscow seeks to prevent any significant
23 collective Western military opposition by threatening local
24 nuclear first-use. This is not the Cold War notion of a
25 mutual balance of terror. It is a fundamentally new

1 coercive use of nuclear weapons and threats not really
2 accounted for in earlier NPRs. Russian military officials
3 speak openly of preemptive use of nuclear weapons in a
4 conventional war. And, according to some open Russian
5 sources, Russia has pursued specialized low-yield nuclear
6 weapons to make its first-use threats credible and its
7 nuclear weapons locally employable. If Russia is planning
8 -- if Russia's planning now follows this apparent policy --
9 and I have no reason to believe that it doesn't -- it tells
10 me that U.S. and NATO deterrence policy is now failing in a
11 fundamental way, and the consequences of that failure could
12 be catastrophic. Consequently, the unprecedented questions
13 to be considered in a new DOD review is how the alliance can
14 effectively deter this combined arms threat to our allies
15 and friends. What deterrence concepts may be applicable in
16 this case, in this new world? What are the corresponding
17 metrics for Western conventional and nuclear force adequacy?
18 And what now should be NATO and U.S. declaratory policies
19 with regard to deterrence?

20 We also need to consider the prioritization of our
21 nuclear policy goals. The 2010 NPR explicitly placed
22 nonproliferation as the top goal and said that reducing the
23 number and reliance on U.S. nuclear weapons was a key to
24 realizing that top goal. Yet, at this point, the goal of
25 nonproliferation should no longer be used as a policy

1 rationale to further reduce U.S. nuclear deterrence
2 capabilities. After two decades of deep U.S. nuclear
3 reductions and focusing elsewhere, and the emergence of new
4 nuclear -- unprecedented nuclear threats, I believe we need
5 to again elevate the priority of the U.S. deterrence mission
6 and related capabilities. Its subordination has had some
7 negative consequences.

8 Finally, since the end of the Cold War, the study of
9 Russia and the Russian language has declined dramatically in
10 our educational system, in general. And the U.S.
11 intelligence community reportedly has largely divested
12 itself of the capacity to understand Russian nuclear weapons
13 policy, programs, and war planning. That is a dangerous
14 inadequacy. Deterrence strategies depend, fundamentally, on
15 our understanding of the adversary's thinking and planning
16 and capabilities. We need both to better understand and to
17 be able to explain the realities of Russia's goal to change
18 the international order under the cover of nuclear first-use
19 threats. If we hope to deter effectively, we must consider
20 again the intellectual resources necessary to perform that
21 vital task.

22 There are many other additional points that could be
23 made on this subject, but, in deference to the time limit,
24 I'll stop there and thank you for giving me the opportunity
25 to express my views.

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[The prepared statement of Dr. Payne follows:]

1 Senator Sessions: Thank you, Dr. Payne.
2 Dr. Roberts.
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1 STATEMENT OF BRAD H. ROBERTS, DIRECTOR, CENTER FOR
2 GLOBAL SECURITY RESEARCH, LAWRENCE LIVERMORE NATIONAL
3 LABORATORY

4 Dr. Roberts: And let me add my thanks to you for the
5 opportunity to be here, and to you, Senator Sessions, for
6 the kind plug for my new book.

7 [Laughter.]

8 Dr. Roberts: You've asked us to highlight elements of
9 continuity and change. And I'd like to look at the -- this
10 in two basic phases: the period from the end of the Cold
11 War up to and including the 2009 Nuclear Posture Review, and
12 the period since.

13 And in the period across the three reviews and the
14 review conducted by the George H.W. Bush administration, but
15 called -- not called a Nuclear Posture Review, but, over
16 that period, the two prior panelists have already hit the
17 main point: there's a great deal more continuity than
18 change in U.S. nuclear policy. Every President has wanted
19 to move away from Cold War approaches in nuclear strategy.
20 Every President has wanted to reduce nuclear arsenals.
21 Every President has wanted to reduce the role and salience
22 of nuclear weapons in U.S. deterrence strategies. Every
23 President has also wanted to ensure that deterrence, nuclear
24 and otherwise, would be effective for the problems for which
25 it is relevant in a changed and changing security

1 environment. Each administration has decided to maintain
2 the triad, after, in fact, each administration considering
3 whether or not that was the right outcome. Each has worked
4 to ensure stable strategic relationships with Russia, China,
5 and U.S. allies. Each has rejected mutual vulnerability as
6 the basis of the strategic relationship with new nuclear
7 armed or arming regional challengers, such as North Korea.
8 This is -- that last point is a huge driver, of course, of
9 developments in our strategic posture.

10 Let me also highlight two conspicuous changes over the
11 first three Nuclear Posture Reviews. One is the steadily
12 rising salience of extended deterrence and the assurance of
13 our allies. By the end of the Cold War, we had almost
14 stopped thinking about this problem. And in the 1990s, it
15 was rare to hear a senior defense official, or otherwise,
16 speak about extended deterrence and the assurance of our
17 allies. This problem has come center stage again in our
18 nuclear strategy.

19 The other important change over those three NPRs
20 relates to the scope of the reviews. The '99 -- I'm sorry
21 -- the 1994 Review was very much a DOD-only look at force
22 structuring, answering a simple question, Now that the Cold
23 War is over, what do we do with this large force structure?
24 The 2001 Review was more effective at taking a broader look
25 at the fit of nuclear strategy in defense strategy more

1 generally, and looked at how to utilize our nuclear
2 capabilities and strategy to underwrite the objectives of
3 assure, dissuade, deter, and defeat. And the 2009 Review
4 was the broadest by far. It was the first that was
5 interagency in character. This, by the way, was mandated by
6 the Congress. It was the first that tried to integrate all
7 of the different elements of nuclear policy and strategy
8 into a comprehensive hole. So, deterrence, extended
9 deterrence, strategic stability, arms control,
10 nonproliferation, and disarmament. That was, in part, what
11 the Congress wanted the new administration to do, and it's,
12 in part, what the new administration wanted to do. My view
13 is that this was helpful, that a broad interagency process
14 was effective in, one, ensuring the needed leadership focus
15 and ensuring the leadership buy-in in the results of the
16 review.

17 Now, second phase, looking back now at the period since
18 the 2009 NPR. Let me highlight four key changes bearing on
19 the scope and content of our nuclear strategy. The first
20 is, of course, the abrupt turn in Russian security policy in
21 spring 2014. With this, it's no longer possible to say, as
22 we did in 2009, that the relationship with Russia was
23 improving and presenting minimum risk of armed conflict.
24 That's manifestly not the case today. But, as the new
25 threat is principally to our NATO allies, our national

1 response needed to focus on adapting, modernizing, and
2 strengthening deterrence in Europe. This process began with
3 the 2013 Wales Summit, a few months following the annexation
4 of Crimea, and will be accelerated at the upcoming July
5 Warsaw Summit. Now, does this require a change in U.S.
6 nuclear policy or posture, this change in Russian
7 orientation? Does this require a change in U.S. nuclear
8 policy or posture, separate and apart from NATO's posture?
9 I don't think so. No administration moved away from parity
10 as the guiding principle in our overall strategic nuclear
11 relationship with Russia. We, the Obama administration,
12 maintain an express commitment to strategic equivalence with
13 Russia and to the second-to-none force-sizing criterion.

14 Now, the argument has been made, not by anyone on this
15 panel, that Russia's nuclear assertiveness requires a
16 comparable nuclear assertiveness by the United States and by
17 NATO, and that Russia's buildup of its nuclear force and
18 development of new nuclear weapons with new military
19 capabilities for new military purposes requires a like
20 response from the United States and NATO. Keith has already
21 discussed some of the deficiencies in NATO's nuclear
22 posture, and he almost didn't mention hardware. The
23 deficiencies in NATO's nuclear posture are largely in the
24 software side. And by that I mean how the alliance has
25 talked about, displayed, and exercised its commitment to

1 nuclear deterrence. I don't think the commitment ever went
2 away, but it's been difficult to find amidst all the other
3 noise.

4 I said I'd highlight four key changes since 2009. The
5 first is about Russia, of course. The second is that we
6 have now learned, the Obama administration and its
7 supporters, that the conditions do not now exist, and are
8 not proximate, that would allow us to take substantial
9 additional steps to reduce the role and number of U.S.
10 nuclear weapons. Remember that the implementation of the
11 Prague Agenda was -- has been pragmatic in character. The
12 administration set out a plan of action to try to create the
13 conditions that would allow others, other nuclear weapon
14 states, to join with us in further steps to reduce the role
15 and number of nuclear weapons. After 7 years, what do we
16 have to show for that? Russia's not willing to take the
17 additional one-third reduction that we would be willing to
18 take if they were willing to do so on a reciprocal basis.
19 China hasn't even agreed to talk about nuclear weapons or to
20 join in strategic stability talks. It certainly hasn't
21 accepted any new nuclear transparency measures at a time of
22 a buildup of its capabilities. North Korea has continued
23 its steady progress towards a small nuclear force that will
24 be capable of reaching out and putting the United States at
25 risk. And our allies have shown themselves, in both Europe

1 and Northeast Asia, unwilling to shed the last part of the
2 capabilities that we uniquely associate with extended
3 deterrence, which is our ability to forward-deploy B61 bombs
4 in combination with dual-capable aircraft.

5 So, I don't think this means we should abandon our
6 disarmament nonproliferation and arms control objectives. I
7 think we should recognize that they are unlikely to pay any
8 significant dividends anytime soon, dividends measured in
9 terms of what we need in the way of our nuclear forces. We
10 should not abandon the balanced approach set out by the
11 Perry-Schlesinger Commission, but we should temper our
12 expectations.

13 I think, lastly, the debate will occur about whether --
14 if Russia is unwilling to join us in further arms control,
15 should we simply not proceed on our own, unilaterally? We
16 see signs of that debate already. Of historical note is the
17 fact that two Republican administrations since the end of
18 the Cold War were willing to take unilateral steps to reduce
19 U.S. nuclear forces. And, of note, neither Democratic
20 administration has been willing to do so. So, I think we'll
21 have this debate, whichever stripe is in the White House.

22 Third change. In the period since 2009, the more
23 multidimensional nature of strategic conflict has come more
24 clearly into focus. Nuclear weapons, missile defense,
25 cyberspace, outer space, may all be separate domains, but

1 they're all part of other same strategic landscape, and
2 they're all a part of what we would face if ever there were
3 to be a significant military confrontation with Russia or
4 China.

5 This puts a focus on the challenge of ensuring the
6 needed degree of integration across these capabilities in
7 our policy. This invites an important question about the
8 scope of a possible 2017 Review. We, the Obama
9 administration, conducted a QDR, an NPR, a Ballistic Missile
10 Defense Review, a Cyber Review, and a Space Review. Should
11 another administration do the same thing? Good question. I
12 think integration would be important and valuable, but I
13 don't see us not doing a repeat of other Nuclear Posture
14 Review as a self-standing activity.

15 The fourth and final difference is in the political
16 context. And you've already heard remarks on this from both
17 panelists. We should recall the stark divisions and
18 paralysis that marked the executive-legislative process 8 to
19 9 years ago. The word has been used around this table a
20 number of times now about a consensus. I'm skeptical about
21 this consensus. I think it's neither broad nor deep. I'm
22 not sure it extends beyond many people at this table. And I
23 think preserving it and deepening it will be, and must be, a
24 key objective of the next administration. And, in my view,
25 this requires being mindful of those initiatives that might

1 seem rewarding in the development of new capabilities, but
2 would be damaging to the political will to proceed with life
3 extension activities.

4 Lastly and briefly, let me highlight three key elements
5 of continuity since 2009 that I think we haven't so far
6 discussed:

7 The first is about Asia. The 2009 Nuclear Posture
8 Review was really the first to give a very prominent place
9 to thinking about Asia in our nuclear strategy. Our focus
10 is always, traditionally, on Russia. How do we put a focus
11 on China? Our focus on extended deterrence has almost
12 always been about Europe. How do we think about the
13 extended deterrence requirements of Northeast Asia and the
14 particular assurance requirements of allies there? These
15 remain important tasks, and we can't let our focus on Russia
16 and our concern about Russia distract us from the Asian
17 environment.

18 Secondly, let me put a finer point on a point John
19 Harvey made. We've said, all three administrations, we want
20 a hedge, we need a hedge, the need for the hedge is rising
21 because the geopolitical environment is becoming more
22 uncertain. We will -- we've committed to reducing our
23 reliance on a large stockpile of uploadable weapons that are
24 aging and expensive to maintain by increasing our reliance
25 on a flexible, adaptive nuclear infrastructure to produce

1 new capabilities in the future if we need them, we don't
2 have it. We're not getting closer to having it. We're not
3 even sure what that would cost. This is a problem that the
4 Strategic Posture Commission in 2009 very much emphasized,
5 and where the problem still sits in front of us today.

6 Lastly, each administration has debated whether new
7 nuclear weapons for new military purposes with new military
8 capabilities are needed. We are certain to have this debate
9 again. We should have this debate. It's an important
10 debate to have. There is no unmet military requirement
11 today. I don't believe you've heard from the STRATCOM
12 commander, or a former commander, indicating that there is
13 some significant deficiency, in terms of STRATCOM's ability
14 to deliver on the guidance it's been given. There is a gap
15 in technical capability. These weapons are old. Where
16 they're deficient is in their age.

17 Is there a case for new nuclear weapons? Yes. One
18 argument we've heard is that this will reinforce deterrence
19 because it will give us a lower-yield option that the
20 President might find more credible to threaten. Another
21 argument is that we need new weapons in order to enhance the
22 ability of our laboratories to produce in the future. These
23 are both valid arguments. I find, on balance, neither of
24 them persuasive. I think we can move to the prototyping of
25 new weapons without producing new ones, and gain the

1 benefits that we need in our infrastructure. And I think
2 there are other ways, other than hardware fixes, to deal
3 with the deficiencies in our deterrence posture.

4 Thank you, Mr. Chairman.

5 [The prepared statement of Dr. Roberts follows:]

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1 Senator Sessions: Thank you.

2 Mr. Miller.

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1 STATEMENT OF FRANKLIN C. MILLER, PRINCIPAL, THE
2 SCOWCROFT GROUP

3 Mr. Miller: Mr. Chairman, Ranking Member Donnelly,
4 members of the committee, it's an honor to be in front of
5 you. It's an honor to be here with my colleagues, with whom
6 I have spent decades working together. It's an honor to see
7 Senator Sullivan, with whom I spent time on the NSC staff,
8 back in the old days.

9 You asked me, sir, to comment on our nuclear --

10 Senator Sessions: Was he as brilliant then as he is
11 today?

12 Mr. Miller: Yes, sir, he was.

13 You asked me to comment on our nuclear posture, which I
14 understand personally to mean our understanding of the
15 threats we face, our declaratory policy, and the state of
16 our forces. And sadly, I must report to you that I'm deeply
17 concerned on all counts. I believe we have declined in all
18 three areas since the beginning of this century.

19 It should be evident by now, although, astonishingly,
20 it isn't in all quarters of this town, that the world
21 President Obama called for in his April 2009 Prague speech
22 is not the one he's bequeathing to his successor. Rather
23 than reducing reliance on nuclear weapons, North Korea,
24 Russia, and China have significantly increased the role
25 those weapons play in their national security strategies.

1 North Korea is now a nuclear weapon state. China is
2 modernizing its long-range nuclear forces across the board.
3 President Putin, over the last 10 years, has engaged in an
4 across-the-board modernization of his strategic nuclear
5 forces and his theater nuclear forces -- in the process,
6 violating the 1991-1992 Presidential Nuclear Initiatives and
7 the INF Treaty. Russian Defense Minister Shoygu remarked
8 last month that 56 percent of Russian nuclear forces are
9 new. You know about the dangerous military activities that
10 the Russians are engaged in using their strategic bombers,
11 their nuclear exercises which explicitly target NATO
12 members, and you've heard the stream of saber-rattling
13 statements coming from Putin and his cadre, the likes of
14 which have not been heard since the days of Nikita
15 Khrushchev.

16 Regrettably, our declaratory policy, apart from
17 stating, quote, "As long as nuclear weapons exist, the
18 United States will maintain a safe, secure, and reliable
19 deterrent," close quote, our policy has not recognized the
20 threats posed by the developments I've just described.
21 Deterrence rests on getting inside the head of the potential
22 aggressor. If we think of history, to the extent our
23 unwillingness to respond is perceived by the Russian
24 leadership as weakness, much as Hitler perceived the failure
25 of Britain and France to respond to his reoccupation of the

1 Rhineland and his annexation of Austria and Czechoslovakia,
2 to the extent that he, Hitler, saw that as proof Britain and
3 France would not defend Poland, then we, ourselves, have to
4 be concerned whether we've left the door open to potential
5 Russian miscalculations, miscalculations which could prove
6 fatal in a crisis. We need to make clear to Mr. Putin that,
7 despite what he says in his exercises, that any use of a
8 nuclear weapon -- any use -- could lead to unpredictable
9 outcomes which could result in the destruction of his
10 country as well as the rest of the world.

11 Moreover, in sharp contrast to both Russia and China,
12 the United States has not deployed a new strategic system in
13 this century. The bomber and ICBM legs of our triad have
14 significant deficiencies. And yet, the modernization
15 programs for all three legs of the triad remain in the
16 planning stages, with new systems not due in the field until
17 the mid- to late-2020s. Even given that, we hear the arms
18 control community calling for the end of the long-range
19 standoff weapon, which would take the B-52 out of the triad
20 and essentially eviscerate the air leg of the triad, killing
21 the B61 bomb, which would end our nuclear forward presence
22 in NATO and end our nuclear sharing there, calls to cancel
23 the Minuteman ICBM Modernization Program, and even calls to
24 cut back the number of new replacement submarines.

25 As a result of all of this, I do believe a major review

1 of our nuclear posture is required to better align us to
2 deter foreign leaders whose policies, pronouncements, and
3 investments in nuclear forces suggest they might actually
4 believe in military use of such weapons in a crisis.

5 I may have a slightly different take from my colleagues
6 -- some of my colleagues, however, on how that review should
7 be carried out. I believe it is incumbent on any new
8 administration to review its predecessor's policies.
9 Certainly, this is true with respect to defense policies and
10 nuclear policies. But, I believe such a review should be
11 conducted promptly and quietly in a highly classified manner
12 within a select group of policymakers and senior military
13 officials in the Pentagon. The results of that review
14 should be shared with the President and the Vice President.
15 Changes which the review might suggest, if approved by the
16 Secretary of Defense or by the President, as appropriate,
17 should then be implemented and announced when -- at a time,
18 and in a manner it achieves maximum security benefits for
19 ourselves and our allies. The relevant congressional
20 committees should be consulted and kept abreast of decisions
21 which may have been required, and all of this well before
22 any public rollout.

23 But, the hype and publicity created by holding
24 congressionally mandated Nuclear Posture Reviews tends, on
25 the other hand, to create significant and early expectations

1 that there will be opportunities for all interested parties
2 to comment on the draft changes and to affect their
3 trajectory. In particular, the inclusion of the State
4 Department and the White House staff have led to an
5 overemphasis on arms control initiatives and
6 nonproliferation policies. While those are important, the
7 basic nuclear posture which the United States requires to
8 deter an attack on ourselves and on our allies should be
9 decided on firm national security principles. Having
10 decided these, an administration can expand its focus, where
11 arms control may be able to help support nuclear stability
12 on a regional or global basis. And it is here that the
13 State Department will, of course, have a role. Again,
14 however, this should be after basic deterrent requirements
15 have been established.

16 There are other good arguments against recreating prior
17 NPRs. Full-blown interagency involvement in Nuclear Posture
18 Reviews tends to increase significantly the amount of time
19 necessary to reach and, therefore, to implement conclusions.
20 Endless meetings of interagency working groups serve to slow
21 the review process and don't improve its results.

22 Furthermore, holding NPRs on a quadrennial basis has
23 created the expectation that nuclear policy needs to change
24 with every new administration. Contrary to changing policy
25 simply because a new administration has taken office are the

1 facts that the basic tenets -- as has been described, the
2 basic tenets of our deterrence policy, as contrasted with
3 their implementation, have been remarkably consistent over
4 the decades, and this has served our country well, as well
5 as our allies. And the basic tenets include deterrent
6 threats on the ability to convince an enemy leadership that
7 our retaliation will impose costs which will outweigh any
8 gains he hopes to make. To be credible, we must have a
9 retaliatory force which can clearly impose the costs our
10 policy requires, even under the worst-case conditions of a
11 surprise attack. And our retaliation must focus on assets
12 the enemy leadership values, not on what we value. This
13 means, as Keith Payne suggested, we must always continue to
14 study potential enemy leaderships to understand their value
15 structures.

16 I say all of this based on my own experiences in the
17 Department of Defense. Beginning in October 1981, I became
18 the senior-most official in OSD policy tasked on a day-to-
19 day basis with managing U.S. nuclear deterrence policy. And
20 I maintained that position through January 2001, when I was
21 detailed to the NSC. During the period 1981 to 2001, we in
22 OSD, working with the Joint Staff and the Nuclear Staff in
23 Omaha, and with the strong support of several Secretaries of
24 Defense, one, corrected the perception that the Reagan
25 administration believed in nuclear warfighting; two,

1 completely reconfigured U.S. declaratory policy; three,
2 weathered the nuclear freeze and nuclear winter movements
3 while maintaining support for our deterrent; fourth,
4 maintained the vast majority of our strategic triad
5 modernization efforts on track; fifth, completely overhauled
6 the Nation's nuclear war plans twice, once during the period
7 1989 to 1991, and then again as Russia began to -- as the
8 USSR began to disintegrate, we did it again in 1991; and
9 based, lastly, on a firm understanding of our deterrent
10 needs, developed proposals which formed the basis of the
11 1991-1992 presidential initiatives and the START II Treaty.

12 Most of this was done within the defense establishment
13 and public mention by the then-Secretary of Defense when
14 final decisions were made or approved by himself or the
15 President. Some of the major changes, specifically those
16 involving war plans, were never announced. We didn't raise
17 public expectations that change was necessary, nor, in both
18 Democratic and Republican administrations, did we ask for
19 public comment on what we proposed to do. Neither did we
20 involve the other executive branch departments and agencies,
21 with the exception of coordinating with the Department of
22 Energy on developing and fielding the new nuclear warheads.
23 The one NPR in which I was involved, that of 1993-94, proved
24 a disappointment, in that it raised many expectations about
25 radical changes in our posture which were not fulfilled

1 because the international situation made such changes
2 imprudent at best, and dangerous at worst. Accordingly, I
3 would urge Congress not to mandate the incoming
4 administration to conduct another Nuclear Posture Review,
5 even though I would recommend that that review take place
6 quietly and internally.

7 Mr. Chairman, I thank the committee for asking me to
8 testify, and I look forward to answering your questions on
9 my somewhat different views.

10 [The prepared statement of Mr. Miller follows:]

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1 Senator Sessions: Thank you. Well, it's an important
2 situation we're dealing with.

3 I hope, as we go forward, maybe we'll take turns. If
4 somebody would like to follow up a little bit on what the
5 previous questioners' questions were out of turn, just raise
6 your hand, and -- if you want to clarify something. Let's
7 don't be afraid to ask simple questions, because sometimes
8 those are the best questions that get asked.

9 We had Secretary James of the Air Force testify this
10 morning. She repeated what others have said, that Russia
11 represents the greatest threat, or the potential greatest
12 threat, to the United States. It's sort of painful to hear
13 that said, when we were so hopeful other things might --
14 things might be different.

15 So, we've had some assumptions for a long time that
16 have driven our nuclear strategy. And let me ask you about
17 this. So, one of the assumptions I think were -- is that
18 great power conflicts -- Russia/United States, in particular
19 -- are a thing of the past. Another one was, it -- the
20 United States should lead and that others would follow to
21 reduce the importance of nuclear weapons to their national
22 security. I would say -- this is one quote the President
23 delivered in South Korea, under the umbrella, "As President,
24 I've changed our nuclear posture to reduce the role and
25 number of nuclear weapons in our national security strategy.

1 I made it clear the United States will not develop a new
2 nuclear warhead, will not pursue new nuclear missions for
3 nuclear weapons. We've narrowed the range of contingencies
4 under which we would ever use, or threaten to use, nuclear
5 weapons." It was a pretty historic statement, I thought,
6 particularly in light of where it was delivered.

7 Rose Gottemoeller, in Prague in 2015 -- 2014, December
8 -- at a -- altered that position a bit. She says, quote,
9 "We are seeing new and enduring pressures on the
10 nonproliferation regime, pressures that threaten global
11 stability. We are seeing nations turn away from
12 cooperation, turn away from the common good of
13 nonproliferation efforts and cling ever more tightly to
14 their nuclear arsenals."

15 Another early assumption was that conventional
16 substitutes for nuclear weapons -- conventional weapons --
17 would diminish the need for nuclear weapons. It -- so, here
18 we'd like to -- I'll start with Dr. Harvey. You started
19 this off. And maybe we'll take a minute or two here and
20 discuss. Have assumptions -- do our assumptions need to be
21 changed?

22 Dr. Harvey: I would say, first of all, that I think
23 the greatest nonproliferation mechanism since the end of
24 World War II has been the North Atlantic Alliance and the
25 extension of nuclear forces from the U.K., France, and the

1 United States to that alliance so that countries -- many
2 countries in that alliance who had the capability, both
3 technical and political, to produce their own nuclear
4 weapons have not. In this -- and by the same course, our
5 extension of our deterrent to Japan and South Korea have
6 provided the disincentive for those two countries to develop
7 their own nuclear weapons. Another success for
8 nonproliferation. So, I think you need to look at this from
9 that perspective.

10 The second point I want to make was one you made
11 earlier, which is that I would say part of the continuity is
12 -- from all -- since the end of the Cold War, all
13 presidential administrations have sought to reduce the role
14 of nuclear weapons. President George W. Bush, a fundamental
15 part of his Nuclear Posture Review was the inclusion of
16 defenses -- conventional defenses and the inclusion of
17 precision conventional strike to try to free up some of the
18 needs for nuclear weapons to fill some of those roles.

19 Senator Sessions: I guess that time is going to --

20 And, Dr. Payne, you -- if you would respond. And --
21 but, it does appear that the goal -- the presidential
22 policy, as the President Stated in South Korea, not to
23 develop new weapons, and et cetera, et cetera, we have -- it
24 hasn't had the desired result, it would seem to me.

25 But, anyway, what's your comment, in general?

1 Dr. Payne: Thank you, Mr. Chairman.

2 Let me comment on the first point that you made, the
3 notion that conflict is a thing of the past. This was one
4 of the great hopes of the post-Cold War order. We were
5 going to be in a new world order that was going to be more
6 benign. And, particularly, we and the Russian Federation
7 would be able to cooperate and possibly even get to near-
8 allied status. Go back and look at -- that was --

9 Senator Sessions: That was absolutely the dream.

10 Dr. Payne: That was the hope and, in some cases, the
11 expectation, even. Even as recently as 2012, a former Vice
12 Chair of the Joint Chiefs of Staff said the idea of conflict
13 between the United States and Russia is a thing of the past,
14 not the future.

15 Let me just suggest, as an extension of what I said
16 earlier, is that, given what we now know the Russians are
17 saying, both externally and to themselves in their open
18 documents, their views are based on a very different
19 understanding of how the world now works. They are talking
20 about an expansion of Russian dominance into areas that we
21 thought were settled in the post-Cold War order, including
22 the change of territorial borders by force, if necessary.
23 And what they talk about is the use of nuclear threats, and,
24 indeed, even nuclear employment, if necessary, as cover for
25 that Russification and expansion of Russian domination.

1 Unfortunately, we've seen conflicts come out of that. We
2 know, at least it's reported, that in 2008 Russia went to a
3 nuclear alert in its operations against Georgia, and in
4 2014, President Putin said that he had thought about going
5 to a nuclear alert. This is a very different world than we
6 expected, post-cold-war. And so, that's where -- that's the
7 line of thinking that leads me to concur that there needs to
8 be a review -- a defense review of some sort, the details to
9 be worked out, because the world has changed in a major way.
10 And so, how we've looked at these things over the last two
11 decades also needs to change.

12 Senator Sessions: Well, thank you. I know others
13 would like to comment, but I'll turn to Senator Donnelly. I
14 would note your comments in your opening remarks about the
15 very technical nature of their tactical weapons evidences a
16 serious contemplation that they might be used. Would you
17 agree with that?

18 Dr. Payne: Yes, sir. The open Russian press from
19 senior Russian officials and scientists suggest exactly
20 that. In fact, in an important case, Victor Mikhailov has
21 said -- it was a -- he was head of the Sarov -- was -- at
22 the time, was the head of the Sarov Institute -- said that
23 the Russians were working -- making great progress on a
24 nuclear scalpel that could be used in a conventional
25 conflict. As we understand, the idea is that a nuclear

1 scalpel could be used that would be at such a level that the
2 West would not respond, because it would be essentially
3 deterred from responding at a nuclear level, and therefore,
4 the West would essentially back down. I mean, that appears
5 to be at least part of the Russian thinking, and it's -- it
6 goes by the name of "to escalate to de-escalate a conflict."
7 In other words, escalate to nuclear use, and that de-
8 escalates the conflict. It de-escalates a conflict because
9 the West backs down. That's the notion of what's being
10 discussed, openly.

11 Senator Sessions: That's a grim reality.

12 Senator Donnelly?

13 Senator Donnelly: Thank you very much, Mr. Chairman.

14 You can't always determine what another person thinks.
15 You can influence it one way or another, but you can't think
16 for them. I'm curious, just as a starter, Do any of you
17 believe that NATO would not fulfill -- NATO countries would
18 not fulfill their treaty obligations to another NATO country
19 if they were attacked? Do any of you believe we would not?

20 Dr. Roberts: No.

21 Senator Donnelly: Do any of you believe that the
22 Russians think we would not respond?

23 Mr. Miller: I believe that there are reasons that they
24 could convince themselves, however wrongly, that we would
25 not respond. And that is my concern, sir.

1 Senator Donnelly: And you can send signals, but you
2 can't, on your own, determine what another person thinks or
3 how they're going to behave as they move forward. Let me
4 ask you this, to all of you. The ruble is worth 82, 83,
5 somewhere between 80 and 85 -- the last week, 85 rubles to a
6 dollar, based primarily on oil, their economy. As their
7 economy grows into deeper trouble, do you think that makes
8 Russia more dangerous or less dangerous on this front?

9 Dr. Payne: I think it has both effects, or it has
10 potentially both effects. In other words, what the Russians
11 have been -- President Putin, in particular, has been saying
12 about the reduced economic resources is that Russia would
13 continue to make the military the first priority, and, in
14 that context, nuclear weapons the highest priority within
15 the defense establishment.

16 That said, if the resources dwindle as much as it looks
17 like they might, the question is, To what extent can they
18 actually maintain that? The Russians seem to suggest that
19 they're going to maintain it. Whether they will or not, I
20 think, is an open question. And that may make them more
21 dangerous, not less dangerous.

22 Senator Donnelly: And then I guess the followup
23 question to that is, As you look at this, how much of what
24 you're hearing from them is being driven by their economic
25 conditions, the things they're struggling through, that they

1 have to have something to talk about, something to lead
2 forward with?

3 Mr. Miller: Sir, I'd say that what we saw, starting
4 about 6 to 8 years ago, was President Putin changing the
5 nature of the Russian political system, even when they were
6 riding high, economically. And so, the emphasis on
7 nationalism, the emphasis on being surrounded by foreign
8 forces, the elimination of political opposition at home is
9 part of the picture, whether they're making money or not.

10 I think, to your prior question, it's always a concern
11 that -- Russian history shows that, when regimes are having
12 some problems at home, they start to focus people's
13 attention abroad and to stir up nationalism.

14 All that said, I don't believe we're in any serious
15 circumstance of having Russia reach out and grab one of our
16 NATO allies. Now, I'm not sure what would happen in a
17 crisis, when he thought that was his least worst option.

18 Senator Donnelly: When you look at this on a
19 continuing basis -- one of the things we've heard in the
20 past is that, some years ago, when it was clear that Russia
21 -- if there was a ground action in that area, Russia had --
22 would have -- had a stronger presence than NATO would. Now
23 you look, and we've heard that NATO on the ground would have
24 a much stronger presence. You don't think so.

25 Mr. Miller: No, sir. Again, if you look,

1 geographically, at the combination of ground forces in the
2 Baltic region, the Russian forces are much stronger. The
3 Secretary of Defense has taken great steps to improve our
4 own capabilities, deploying smaller numbers of U.S. forces,
5 but the conventional balance on the Russo-Baltic border is
6 clearly --

7 Senator Donnelly: Well, how far do they go before it
8 matches up?

9 Mr. Miller: NATO?

10 Senator Donnelly: Yeah, before NATO forces and Russian
11 forces --

12 Mr. Miller: Tens of thousands of forces, sir, that
13 we're not --

14 Senator Donnelly: No, no, I'm sorry. What I mean is,
15 on the ground, how far would they have to go before it
16 becomes an even fight? Like heading over -- in toward
17 Europe?

18 Dr. Harvey: We have to reinforce, and then we can win
19 the war, but it takes us time to reinforce.

20 Senator Donnelly: But, with the reinforcements on the
21 ground, we have the advantage, at that point.

22 Dr. Roberts: We do not. We do not -- we have -- the
23 current NATO conventional force structure cannot be deployed
24 in any kind of timely fashion to redress a Russian invasion.
25 The reinforcements would have to come from across the

1 Atlantic.

2 Senator Donnelly: So, you don't think that any of
3 their talks in regards to nuclear weapons is related to
4 shifting forces on the ground and shifting advantage on the
5 ground.

6 Mr. Miller: Well, the concern would be if -- if they
7 achieved a quick, limited tactical victory and we began to
8 reinforce, that the threat would then come -- if we didn't
9 stop our reinforcements and simply leave the situation in
10 the status quo, then they would escalate to de-escalate and
11 use nuclear weapons. That's where the Russian strategy
12 leads you.

13 Dr. Payne: Can I mention that President Putin has said
14 that he can have Russian troops in five NATO capitals in 2
15 days? I don't know whether Russia plans to do that, but if
16 President Putin believes that, that can be the type of
17 mistake that -- that Frank mentioned -- that could lead to,
18 you know, a disaster, even though we, on our side, believe
19 that it would be disastrous for them to move in that
20 direction.

21 Senator Donnelly: Thank you very much.

22 Senator Sessions: On the China border, is the opposite
23 the case, where the Russians are less able to resist the --
24 a Chinese advance, and therefore, they would even be more
25 committed to a scalpel or a nuclear weapon?

1 Mr. Miller?

2 Mr. Miller: Yes, sir.

3 Senator Sessions: Let's see. Senator Fischer?

4 Senator Fischer: Thank you, Mr. Chairman.

5 Senator Sessions: Thank you. I heard your -- I heard
6 Omaha being mentioned on the football game the other day a
7 lot.

8 Senator Fischer: I know. We always make the news.
9 Nebraska's always the leader.

10 [Laughter.]

11 Senator Sessions: Your Mr. Manning --

12 Senator Fischer: Thank you.

13 Senator Sessions: -- quarterback Manning --

14 Senator Fischer: I know. Peyton Manning --

15 Senator Sessions: -- keeps calling your name.

16 Senator Fischer: He was --

17 Senator Sessions: I've thought about you.

18 Senator Fischer: He was just the best. That helped
19 him -- and that helped him to win, when he yells out
20 "Omaha."

21 Dr. Harvey, in your earlier statement, you referenced
22 then-President Bush, in 1991, in some actions that he had
23 taken. At that time, he unilaterally eliminated, I think,
24 almost all the deployed tactical weapons -- tactical nuclear
25 weapons that we had. Did he expect the Russians to follow

1 suit on that? Because they did not. Did he expect that to
2 happen?

3 Dr. Harvey: There was, I believe, the expectation --
4 while the -- President Bush's -- President Bush 1's tactical
5 nuclear reductions were unilateral -- that there were be
6 some reciprocity. There was some reciprocity, but some of
7 the Russian promises on reciprocity have not been fulfilled.

8 Mr. Miller: Senator --

9 Senator Fischer: And as we look at our -- as --

10 Mr. Miller: Senator, I was one of the architects of
11 that. Yes, the -- President Bush made a speech, in late
12 September 1991, where he announced what we were going to do,
13 and it specifically challenged the Russian leadership to do
14 the same thing. President Gorbachev, in '91, and President
15 Yeltsin, in '92, committed themselves to do virtually
16 everything that President Bush announced for our forces.
17 But, as Dr. Harvey indicated, they -- and you've said --
18 they failed to carry out their pledge.

19 Senator Fischer: And today, we're faced with the
20 tactical nuclear weapons that the Russians have. And I
21 think that line is blurring between the tactical nuclear
22 weapons and the strategic nuclear weapons. How do you feel
23 that we're going to be impacted by that, especially with the
24 Russians making a number of advancements with their tactical
25 nuclear weapons? How does -- how's that going to affect our

1 nuclear posture in the future? If you would all like to
2 address, specifically, the Russians, but also dealing with
3 other nuclear powers that we are looking at in his world,
4 whether it's the Chinese or North Korea, or looking down the
5 road in the future to even Iran. How's that going to affect
6 our deterrence?

7 Dr. Roberts: So, let me start, if I may, with the
8 Russia piece. So, NATO's nuclear posture consists of two
9 main elements: the independent nuclear forces of the three
10 nuclear allies within the alliance; and the nuclear sharing
11 arrangements, which have steadily come down, and we can say
12 at the unclassified level, to 97 percent from their Cold War
13 height, the number of deployed weapons by the United States
14 in support of the nuclear assuring arrangements. So, the
15 question for NATO is how to adopt that posture to the new
16 situation presented by Russia and to its new capabilities.

17 The key development in Russian military doctrine is
18 this elaboration of the escalate-to-de-escalate strategy and
19 the footnote to that, which is, they recognize that that may
20 not be effective in achieving the result they would like, so
21 they've introduced a vocabulary now about pre-nuclear
22 deterrence, the use of long-range non-nuclear strike
23 systems, whether cruise missiles or ballistic missiles, that
24 would be used to escalate a conflict in order to de-escalate
25 it, but below the nuclear threshold. We need to strip away

1 their confidence that those threats are going to be
2 effective in inducing NATO's restraint. We can do that with
3 a little bit of missile defense, a little bit of non-nuclear
4 strike of our own, and an ability to retaliate if they
5 conduct limited nuclear strikes, which we have with our DCA
6 arrangements, and an ability to escalate if they continue
7 with nuclear strikes, which we have with our strategic
8 national assets of the three countries.

9 So, this is -- I don't see the Russians solving a
10 significant military problem for themselves by producing
11 low-yield nuclear weapons. If they use nuclear weapons,
12 they will have crossed a dramatic threshold. And the fact
13 that they have certain yields and certain downrange hazards
14 will not be terribly impressing upon the alliance of the
15 need to do something decisive in response to impress upon
16 Russia the degree of its miscalculation.

17 Now, the key wildcard here is where they go with INF.
18 If they -- if their violation of the treaty proceeds now to
19 the deployment of some significant force of intermediate-
20 range nuclear weapons, then I think the problem for the NATO
21 alliance becomes more complex. And in that circumstance, I
22 am not sure that the existing DCA arrangements would be
23 adequate to signal the resolve of the alliance, when
24 threatened.

25 So, with that, I'll set us -- turn to others for the

1 additional comments.

2 Dr. Payne: I'll be happy to comment.

3 Senator Fischer: Dr. Payne.

4 Dr. Payne: And that is -- it -- the question isn't
5 just how the Russian nuclear weapons impact what we may or
6 may not do; it's how the Russian combined arms, conventional
7 and nuclear weapons, impact what we may or may not do. And
8 let me just give you an example. Defense Minister Shoygu
9 just announced that Russia was going to establish three new
10 divisions in the western district opposite NATO with
11 permanent basing and that Russia was going to move the S-400
12 to Kaliningrad. What this suggests is a very serious
13 buildup of conventional capability in the western districts.
14 We shouldn't be surprised by that, I guess, given what
15 they're saying, but it's actually happening.

16 So, you know, what does that mean? It means that NATO
17 needs to be able to prevent conventional fait accompli by
18 Russia, because we can't allow President Putin or the
19 Russian elite to believe that they can have Russian troops
20 in five NATO capitals in 2 days. And that's --

21 Senator Fischer: They've -- but, they've shown to us
22 that they can move their forces quickly.

23 Dr. Payne: That's true. And that's -- and so, what
24 I'm suggesting is, this is something that NATO needs to
25 respond to. We need to make sure that Russian cannot --

1 Senator Fischer: But, do we --

2 Dr. Payne: -- produce these fait accompli --

3 Senator Fischer: -- do we respond with a -- nuclear
4 deterrents? That's -- you know, that's my question.

5 Dr. Payne: Right.

6 Senator Fischer: What is our posture going to be,
7 going forward, with regards to deterrence when you're -- not
8 just the conventional weapons that they have, but also --
9 and not just Russia -- but with their tactical?

10 Dr. Payne: Yes, Senator Fischer. I think it's a two-
11 pronged approach. We have to be able to deter the
12 conventional assault -- the Russian troops in five NATO
13 capitals in 2 days. And helping to counter that vision of
14 the Russians is important. And conventional forces are
15 necessary for that; not just on a rotational basis, but
16 having conventional forces that can help prevent that will
17 help deter that. We also need to be able to deter the
18 nuclear escalation threat. So, we need to be able to do
19 both. And that's where I believe there is a role for NATO
20 and U.S. nuclear weapons to deter that notion that nuclear
21 escalation will save the day for them.

22 Now, what does that mean for us when you look at the
23 basics? Where does the rubber meet the road? It means that
24 we can't remove the DCA from Europe. That would be
25 ridiculous at this point. But, there have been many, many

1 suggestions that the U.S. DCA should be removed from Europe.
2 We should go ahead. We must go ahead with the B61-12 for
3 the DCA. We need to maintain our deterrent that can help
4 prevent the Russians from thinking they can nuclear escalate
5 their way out of a problem that they create by trying to put
6 Russia troops in five NATO capitals in 2 days. So, it's a
7 two-pronged deterrence approach.

8 Mr. Miller: Could I just be -- very brief, say -- we
9 have two problems. One, Putin's rebuilt Russia's nuclear
10 and conventional forces. And two, he's shown a propensity
11 to use those conventional forces in Georgia and Ukraine when
12 he thought there was low risk. Our job, as the United
13 States, and our job, as to NATO, is to say to him, "There is
14 an extreme risk in using those forces of any kind against
15 the alliance." And that means building up some conventional
16 capability in Europe, and it means retaining a good,
17 credible nuclear deterrent, which means modernizing our
18 forces. If he is convinced there will be cost to potential
19 aggression, he's not going there. But, at no cost, he
20 could.

21 Senator Fischer: Will it take the United States to be
22 the leader on that, to bring in all of the NATO partners
23 that we have so that they understand the importance of
24 having a line of defense with Russia? They have a big
25 border now to protect --

1 Mr. Miller: We are the --

2 Senator Fischer: -- whether it's in the south, and the
3 issues they face there, but -- how do you convince, I think,
4 especially Western European countries of the importance of
5 having that firm border on the east?

6 Mr. Miller: We are the leaders of the alliance.
7 Without us, there is no NATO alliance. And it makes hard
8 work. I chaired NATO's Nuclear Policy Committee for 4
9 years. You can do that. You can bring those countries
10 along. But, it takes hard work. Brad knows that. My other
11 colleagues know that, as well. We have to lead, and we have
12 to be prepared to take that burden on.

13 Senator Fischer: And, Mr. Chairman, I am way over my
14 time, but can I have Dr. Harvey respond?

15 Senator Sessions: Important.

16 Senator Fischer: Since I used your name at the
17 beginning, sir.

18 Dr. Harvey: I think it's important that we recall
19 that, back in the '50s and the '60s, when Russia had a
20 massive conventional strength on the western -- on the --
21 confronting the western alliance, that we declared that we
22 would use nuclear weapons first to repel conventional
23 aggression. We want to get beyond that. We need to have
24 our capabilities in place to deter conventional attack with
25 conventional forces. And that involves, very likely,

1 restoring some military capability from the United States to
2 the alliance, and figuring out ways to exploit technology
3 better, via offset strategies, et cetera, to be able to
4 achieve military objectives, not necessarily with stationing
5 massive armored divisions forward, but with technology.

6 Senator Fischer: Thank you.

7 Thank you, Mr. Chairman.

8 Senator Sessions: Thank you.

9 Senator King?

10 Senator King: Thank you, Mr. Chairman.

11 It seems to me there's a real dilemma at the core of
12 this discussion, and that is, How do we increase our
13 deterrence in Europe with a NATO deterrent without at the
14 same time feeding Putin's paranoia about aggression from the
15 West? There's a kind of -- it's not really chicken-and-egg;
16 I think it's a downward spiral, it seems to me.

17 Mr. Miller, would you comment on that? Because clearly
18 part of what motivates Putin is a 500-year-old Russian
19 belief that the West is out to get them.

20 Mr. Miller: I think he is motivated by that, Senator
21 King, but I also think that he and his military experts are
22 quite aware of what our capabilities are and are not. The
23 movement of a U.S. Brigade Combat Team to the Baltics, and
24 actually parceled out among those countries, is clearly not
25 an offensive threat. I don't -- I think he and his military

1 are quite clear that NATO cannot, and does not, present an
2 offensive threat to Russia. But, as you say, it feeds the
3 paranoia, and it helps him in his general political approach
4 to dominance and eliminating opposition in Russia.

5 Senator King: How much of this new-found Russian
6 aggressiveness, if you will, is Putin himself, as an
7 individual, and how much is Russian doctrinal structural
8 thinking?

9 Dr. Harvey, you want to take a crack at that?

10 I realize -- we spend a lot of time around here
11 psychoanalyzing Mr. Putin, so we may as well do it a bit
12 more.

13 Dr. Harvey: If my wife were here, who -- she is a
14 Russia specialist. She's a -- an expert on the Putin stuff.
15 But, I'm going to turn this over to Keith. I think he can
16 handle this one better.

17 Dr. Payne: Thanks, John.

18 We make a mistake if we personalize this to President
19 Putin --

20 Senator King: Right.

21 Dr. Payne: -- because most of what we hear and see,
22 and the kind of things that the -- come out in the --
23 particularly the open press with regard to the topic that
24 we've been discussing today go back to 1999-2000. We see
25 military leaders making statements that are, as I said

1 earlier in my prepared remarks, preemptive use of nuclear
2 weapons in conventional conflict. So, it's much more of a
3 culture and a regime position than it is narrowly
4 personalized President Putin. My strong belief is, if
5 President Putin for some reason were no longer on the scene
6 --

7 Senator King: We'd still be dealing with this.

8 Dr. Payne: -- we'd still be dealing with this, yes,
9 sir.

10 Senator King: That's important. That was the thrust
11 of my question.

12 Let me change the subject entirely, because we've been
13 talking about Russia most of the time. Very specific
14 question, briefly. How vulnerable are we, in terms of
15 command and control, to cyberattack? We can have all the
16 weapons in the world, but if we can't communicate because of
17 a -- some -- a cyberattack of some nature -- and, to the
18 extent, in an unclassified setting, you can share your
19 thoughts.

20 Dr. Harvey: I spent quite a bit of time worrying about
21 this when I was working with Ash and others in the
22 Department of Defense. Before he became Secretary and
23 Deputy Secretary, he led a crusade within the Department to
24 strengthen the command and control of nuclear forces. One
25 of the key elements of the command and control of nuclear

1 force is ensuring a cyber integrity of the system. We have
2 an old system.

3 Senator King: That may be good.

4 Dr. Harvey: That may be good, to some degree. We're
5 thinking of -- we have to modernize it. Part of Ash's
6 initiatives was to introduce a complete comprehensive,
7 ongoing cyber assessment of the command-and-control system.
8 And we're starting off with the ICBM force, and we're moving
9 through the whole system. I am not currently current with
10 that cyber vulnerability assessment. But, it's something I
11 worry quite a bit about. And it's important that we devote
12 the right attention to ensuring that we can get a conference
13 set up with the President, we aren't fooled into believing
14 that the attack is underway, when it really isn't -- when it
15 isn't -- or that it isn't underway when it really is. We
16 need to ensure that we can communicate with our forces, and
17 that no one can disrupt those communications.

18 Senator King: Well, I'm glad to know that work is
19 ongoing, and I hope it has a sense of urgency.

20 Mr. -- Dr. Roberts.

21 Dr. Roberts: I had a comment on that. We have a
22 command-and-control system tailored for the problem of the
23 1960s and --

24 Senator King: That's reassuring.

25 Dr. Roberts: -- which is essentially -- in plain

1 speak, it enables the President to take a 5-minute multiple-
2 choice quiz and then skedaddle, which fit a world in which
3 we worried seriously about the possibility of a major bolt-
4 out-of-the-blue Soviet strike.

5 If that's the path -- if that's no longer the pathway
6 to nuclear war, what might be? Well, the case that concerns
7 all of us around the table, I think, is regional aggression,
8 a regional conflict, where the adversary tries to escalate
9 its way out of a failed act. And thus, the first decision
10 the United States encounters about employing a nuclear
11 weapon isn't in the bolt-out-of-the-blue context. And, if
12 you will, if the system is geared to enable the President to
13 take a multiple-choice quiz in 5 minutes, what he needs to
14 be able to do is to take -- pass the essay test. Imagine a
15 Korean contingency in which North Korea has crossed a red
16 line of ours. We face a decision about whether and how to
17 respond with a nuclear weapon. Who's the President going to
18 want to talk to? And -- many, many, many people.

19 Senator King: Right.

20 Dr. Roberts: And is the system geared to do that?
21 Well, that's not quite the nuclear command and control
22 system, but it's a part of the new landscape we're in. And
23 moreover, if we're entering the phase of nuclear decision
24 after some period of prolonged conventional regional war, we
25 can expect that cyber and space assets both would already

1 have been under attack. And thus, we might be entering the
2 nuclear phase of a conflict with a weaker command-and-
3 control system than has been our assumption when we think
4 that the problem is the bolt-out-of-the-blue.

5 So, there's an excellent question about the cyber
6 vulnerability of the command-and-control system, but there's
7 a related question about whether the system, as it was
8 conceived and constructed for the problem of the past, how
9 it needs to evolve to be effective for the problem that's
10 emerging in front of us.

11 Senator Sessions: Senator --

12 Senator King: Mr. Chairman, may I follow up with one
13 additional question?

14 Mr. Miller: And you've got -- could I just say --
15 command and control, while vital, has always been an
16 afterthought. We have to modernize the triad and OES --

17 Senator King: Right.

18 Mr. Miller: -- nuclear command and control, too. I
19 would recommend to the committee that it engage in looking
20 at that over the next year. This is a critical element of
21 our -- it is the most critical element of our force
22 structure.

23 Senator Sessions: The command and control --

24 Mr. Miller: Yes, sir. Nuclear command and control.

25 Senator King: I wanted to ask one additional question.

1 It may be that you could answer very briefly and give us
2 some thoughts on the record.

3 Again, to change the subject utterly. We've been
4 talking about Russia, then we've been talking about
5 escalation, North Korea. What about terrorists? How --
6 deterrence doesn't work against a suicidal nonstate actor.
7 The whole theory just breaks down. Do we need a -- I mean,
8 how do we deal with that? We've -- deterrence has been very
9 effective, a tremendously effective doctrine for 70 years,
10 but now we're in an entirely different situation, where if
11 somebody doesn't care about dying and they don't represent a
12 country -- how do -- what's the strategic doctrine that
13 deals with that threat?

14 Dr. Harvey: I would make one point. First of all, we
15 can deter the sale or transfer of nuclear weapons from
16 states to terrorists by making it clear to states that we
17 hold them accountable for those transfers; and, two, that we
18 have the capabilities to know whose nuclear weapon just went
19 off and where it came from. And that's an important
20 critical aspect of deterrence in the concept of terrorism.

21 Senator King: Is that a well-known concept in the
22 world today? People -- other countries know that that's our
23 --

24 Dr. Harvey: We have fairly robust nuclear forensics
25 capabilities to be able to determine, if we acquire a

1 nuclear weapon from a -- that -- where it came from, and,
2 number two, if one goes off, also be able to understand,
3 through debris analysis, where it came from. And that's
4 pretty well understood. I think the point of -- once the
5 terrorists get the bomb, yeah, you're right, they're going
6 to want to use it, and they're not going to care if they
7 give up their lives to use it. And our job has to be able
8 to create barriers and delay mechanisms to convince them
9 they will not be able to achieve their objective, which is
10 to kill a lot of Americans or a lot of allies.

11 Senator Sessions: Senator Cotton, thank you for
12 joining us.

13 Senator Cotton: Well, thank you for the invitation. I
14 don't sit on the subcommittee, but I believe that, while
15 there may be more immediate threats to our national
16 security, there's no more fundamental issue for the safety
17 and security of the American people than our nuclear forces.

18 I'm occasionally asked by those on the left, as well as
19 -- who pose nuclear weapons -- and those on the right, who
20 look for places to trim spending, "Why do we spend so much
21 on weapons we never use?" My answer, first, "On the
22 contrary, we use our nuclear weapons every single day."
23 And, second, "We actually don't spend that much on our
24 nuclear weapons." I think it's less than 5 percent now of
25 the total defense budget. That is a very valuable

1 investment.

2 To that end, when was the last time the United States
3 designed a nuclear bomb?

4 Dr. Harvey: The last full-up nuclear weapons --
5 nuclear warhead that we designed was the W88 SLBM warhead
6 for the Trident ballistic missiles carried on submarines.
7 And that was in the 1980s.

8 Senator Cotton: When was the last time we built a
9 nuclear warhead -- a new nuclear warhead?

10 Dr. Harvey: It was the W88, probably -- we were
11 producing them through the late '80s into the early '90s,
12 when President George Herbert Walker Bush stopped the
13 production.

14 Senator Cotton: It is the current policy of the United
15 States Government not to develop new nuclear warheads or
16 pursue new military missions for nuclear weapons. Should
17 that remain the policy of the United States?

18 Dr. Harvey: That policy should be reviewed in every
19 administration. This administration, early on, made a
20 decision, in light of the difficult efforts underway to
21 sustain the existing stockpile, not to go off and develop
22 new warheads or new -- new nuclear warheads and for
23 nonproliferation objectives. It was not a decision, for all
24 time, not to consider the possibility of having new or
25 different military capabilities in the force. And every

1 Nuclear Posture Review should revisit that decision.
2 Indeed, all Presidents, including this one, has said we need
3 to maintain the capabilities to ensure that we can develop
4 new or different warheads for providing different military
5 capabilities, if required from an evolving security
6 environment.

7 Senator Cotton: Mr. Miller, I saw you nodding your
8 head?

9 Mr. Miller: Senator, I -- I was not in the
10 administration, was not a part of this administration, but
11 the intent of that policy, as I understand it, as the intent
12 of the Prague speech, was to set an example for others not
13 to either rely more on nuclear weapons or build new nuclear
14 weapons. The French, the Russians, the Chinese, the
15 Indians, the Pakistanis, and the North Koreans are building
16 new nuclear weapons. If the intent of our policy of self-
17 restraint was to stop them from doing so, that policy has
18 failed. To the degree that our stockpile requires new
19 capabilities, then I think we ought to examine that.

20 Senator Cotton: Let's move from warheads and general
21 policy to delivery systems and immediate policy. I have
22 seen several reports, both in the media and in
23 conversations, that the long-range standoff cruise missile
24 may not be fully funded in the President's upcoming budget
25 request. Senior civilian and military DOD officials insist

1 that this is absolutely necessary.

2 Mr. Miller, would you like to explain why they have
3 reached that conclusion?

4 Mr. Miller: Yes, sir. The bomber leg of our triad
5 consists of 19 B-2 bombers and about 50-odd B-52s. The only
6 way the B-52 is an effective deterrent is by carrying a
7 cruise missile. The cruise missile that it carries now, the
8 AGM-86 ALCM, first entered the force in about 1980-1981.
9 It's got reliability problems. And whereas it was stealthy
10 then, it is no longer stealthy today. So, if you don't have
11 the long-range standoff weapon, you don't have the B-52,
12 and, by extension, you really don't have a triad anymore.

13 Senator Cotton: Thank you.

14 Dr. Payne, do you have anything to add on that
15 question?

16 Dr. Payne: I would just add, as a -- at a general
17 level, that the more flexible our capabilities are, the more
18 diverse they are, the more likely it is that we'll have
19 what's necessary for deterrence when it becomes extremely
20 important to have an effective deterrent. And so, the
21 continuing reduction and narrowing of our capabilities, I
22 believe, has a adverse effect of narrowing the potential
23 that we will have what's needed for deterrence when that
24 crisis comes. And so, I think that the cruise missile is
25 extremely important, for the reasons that Frank mentioned,

1 but also in general, because we need to retain a flexible,
2 diverse force structure for deterrence purposes.

3 Senator Cotton: And my time is expired, here, but if I
4 could just conclude, Senator Sessions, with --

5 Senator Sessions: Yeah.

6 Senator Cotton: -- one comment, since you and Senator
7 King had a conversation about Vladimir Putin and his
8 intentions, and divining those intentions.

9 Operations by Russia began in earnest in Syria in late
10 September. They continued unabated to include several
11 violations of Turkish airspace, 'til Turkey shot down a
12 Russian aircraft in its airspace in late November. To my
13 knowledge, since then, Russia has not had any incursions
14 into Turkish airspace.

15 What do you think that tells us about Vladimir Putin's
16 response to countries or adversaries that draw a line on his
17 aggressive conduct?

18 Dr. Payne: I think it -- what it shows is that
19 Vladimir Putin is a calculating person. He has a chance to
20 be reckless, but, when he sees that being reckless really
21 will have very negative consequences, he can also pull back.
22 That's why, in our discussion today, our goal is to make
23 sure that he doesn't make a mistake and act on some of the
24 more reckless ideas that seem to be part of what that regime
25 is talking about.

1 Senator Cotton: Well, I would agree with that. And I
2 would add, for the record to that conversation about Russia,
3 that 500 years of Russian history shows that it's actually
4 the West that has more to fear from Russian aggression than
5 Russia from the West. The two main times they've faced a
6 threat from the West, from Napoleon's France and Hitler's
7 Germany, it was the West that united against that invader
8 and on the side of Russia. And if you ask Sweden or Poland
9 or the liberal uprisings of the 19th century where they had
10 the most fear from, it was from Russia; it was not from
11 anyone in the West.

12 Senator Sessions: Thank you.

13 Well, Dr. Payne, just follow up a little bit on that
14 and -- because we really need to get your opinion on the
15 necessity, or not, of a new nuclear weapon. What I hear you
16 saying is, in this world of calculation by powers, that if
17 Russia or some other nuclear state is calculating that they
18 can take -- use a small-yield -- some sort of small-yield
19 nuclear weapon, and they calculate we won't retaliate, they
20 are more likely to use that weapon. Is that -- first --
21 that's the first question. If they think we won't
22 retaliate, they're more likely to use it than if they are
23 certain we would retaliate.

24 Dr. Payne: If they think that they have license to do
25 that, then they're more likely to move in that direction.

1 Senator Sessions: And if, to follow up, the
2 flexibility you're talking about in -- if you only have, you
3 know, a nonsurgical-type response capability, then they
4 might increase their belief that you're not going to -- you
5 don't have the right kind of weapon to respond, and might,
6 again, cause them to more -- be more willing to use a
7 nuclear weapon. Is that -- I guess I'm -- you can probably
8 see where I'm going.

9 Dr. Payne: Sure.

10 Senator Sessions: So, the question is --

11 Senator Donnelly: And if I could just add to that.
12 And this is -- I don't want to go into any classified areas
13 -- but, don't we have the ability to work with our weapons
14 to match what they do?

15 Senator Sessions: And so, the question -- we'll get
16 there. The deal, to me, is -- and we don't talk about it
17 much -- but, we must have a realistic ability to respond,
18 and our adversaries need to know it. And we don't -- that
19 -- and we don't need to be put in a position where we've got
20 to pour troops in, and they be vulnerable to a nuclear
21 attack. There's a -- so, how do you evaluate that, in terms
22 of the kind of flexibility we need --

23 Dr. Payne: Right.

24 Senator Sessions: -- in our system?

25 Dr. Payne: Yes, sir. I think you have hit the key

1 question. And my basic answer is, we need to fill the gap
2 that the Russians seem to see in our capabilities. What
3 that gap is seems to be at the low end of the spectrum, low-
4 yield nuclear weapons, very accurate nuclear weapons. Now,
5 whether that means we need a new capability, or not -- I
6 hate to be an academic, but it depends on how you define
7 "new." If I heard my colleague, Dr. Harvey, talk about
8 "new" as something that would be outside or beyond designs
9 -- existing designs. And it may well be that --

10 Dr. Harvey: Qualified in nuclear tests.

11 Dr. Payne: Exactly. So, if the designs that we have,
12 qualified via previous nuclear tests, are as broad as I
13 understand them to be, then we may not need new nuclear
14 capabilities. We may need something that's outside of the
15 current stockpile, but it's not a new nuclear capability.
16 But, the first thing we need to do -- and this is where I
17 get back to the point that Frank made earlier -- is that we
18 need to understand what the Russians are doing and saying,
19 and what their views are, before we deem what we need for
20 deterrence. In other words, we need to understand them
21 first, because what we have has to impress them. It doesn't
22 just have to impress us; it has to impress them. So, we
23 need to fill a gap we see.

24 Senator Donnelly: And isn't one of the other things we
25 need to do to send a clear message, through one way or

1 another, that any use of any weapon is -- will clearly be
2 countered immediately the same way?

3 Dr. Roberts: So, easier said than done.

4 Senator Donnelly: No, I get that, too. But, I mean --

5 Dr. Roberts: You're passing through the filter of all
6 of their perceptions about the credibility of that threat.

7 Senator Donnelly: And it really comes down to a Clint
8 Eastwood moment of, "Do you feel lucky? Do you think we're
9 not going to act?"

10 Dr. Roberts: Right.

11 Senator Donnelly: And --

12 Dr. Roberts: And what we --

13 Senator Donnelly: -- our job is to ensure that they
14 look at the weight of evidence, and the evidence is that we
15 will, I guess.

16 Dr. Roberts: Yes. And that we make it difficult for
17 them to calculate precisely what risk they're going to run.
18 Putin's shown himself to be an astute player of low-stakes
19 poker. He's gone up against us everywhere that our stake
20 hasn't been anywhere near what his stake is. That's low-
21 stakes poker. Going up against NATO would be high-stakes
22 poker. And we need to do everything within our realm to
23 demonstrate our conviction, our, just, belief, that that
24 would be so. I'm not sure that new declaratory policy
25 statements, new threats to Russia, new red lines in the sand

1 would have any impact on a man who's, by and large, made up
2 his mind about our strategic behaviors and our strategic
3 personality. But, to the extent we can expose him to risks
4 that he can't calculate, costs that are higher than he might
5 have expected to pay, and -- while at the same time reducing
6 his expected benefits out of threatening and attacking NATO
7 and trying to pull it apart, then we make it more and more
8 difficult for him to convince himself that he can run these
9 risks and win.

10 So, I think the nuclear tool in the toolkit is
11 fundamental, but it's a much broader toolkit, and it begins
12 with how we convey the role of deterrence in the alliance's
13 overall strategy, and how we convey our intent to defend the
14 vital interests of our allies.

15 And just to sort of close with a comment on the
16 quotation you had, Senator Sessions, from President Obama in
17 Seoul. What was missing from the quotation, which -- was
18 what he then went on to say, which was, "But, we want North
19 Korea to make no mistake that the United States would use
20 nuclear weapons on behalf of South Korea when its vital
21 interests are at risk." That's the message that they need
22 to hear. And they need to hear it from everybody in our
23 political system, not just the Commander in Chief.

24 Mr. Miller: If I could, sir, since I'm the one who
25 said we ought to say something in our declaratory policy.

1 Nothing in isolation makes sense. It's a combination of
2 what we say, how we exercise, how we lead in NATO, and how
3 we modernize our forces. Way back in the bad old days, they
4 used to -- we used to say, "We know we can't win a nuclear
5 war. Our job is to convince the Soviet leadership that they
6 can't win, either." It's words like that. It's leadership.
7 It's modernization. And it's working with our allies to
8 make clear to everybody that an attack on one is an attack
9 on all, and that it's high stakes.

10 Senator Donnelly: It's the entire picture that you
11 paint.

12 Mr. Miller: Yes, sir.

13 Dr. Roberts: May I come back to the, "Do we need new?"
14 question?

15 Senator Sessions: Right.

16 Dr. Roberts: Since this is clearly --

17 Senator Sessions: You indicated previously you didn't
18 think so. And so, modernization, you favor. Is that
19 correct, Dr. Roberts?

20 Dr. Roberts: Absolutely.

21 Senator Sessions: All right. So, go ahead.

22 Dr. Roberts: This is a case where the best may be the
23 enemy of the good, which is to say if -- if we were to set
24 out today and to define the optimal nuclear arsenal for the
25 security environment we sit in, in 2016, it would probably

1 look somewhat different from the arsenal we have. But, do
2 we know that anything is different politically from the
3 circumstance of the George W. Bush administration, when
4 executive-legislative agreement was not possible on even
5 replacement warheads? I'm worried about the circumstance in
6 which we go off and say, "We're not sure that a new capacity
7 is really going to just solve this problem us, but it seems
8 like it's the right thing to do," and watching the political
9 support for life extension programs evaporate. Then we end
10 up in a worst-possible world.

11 So, there's a pragmatic political question, here, it
12 seems to me, about whether or not going for new is an
13 attractive option. But, you're not asking the political
14 question, you're asking the military strategic question,
15 "Does this enhance, in a fundamental way, in a -- or a
16 significant way, the nuclear toolkit we already have in
17 place?" And I go back to my starting point. Is there a
18 military commander who has said there is some deficiency in
19 our ability to do what's -- guidance calls for, which is to
20 put at risk those things that we believe enemy leadership
21 values? It's not simply to destroy enemy societies. It's
22 to do something much more complex. We don't see evidence --
23 I mean, no military leader has come forward and said there
24 is an unmet requirement.

25 So, the question then is, well, from a deterrence

1 perspective, as opposed to a warfighting perspective, might
2 there be some benefit? And you set out the case, but, if I
3 may observe, with a series of "mights." Putin "might" think
4 we might -- he might interpret this, he might think that.
5 It seems logical to us that he ought to be more impressed by
6 the threat to employ a lower-yield weapon than a higher-
7 yield weapon. But, I don't think we should join Mr. Putin
8 in trying to reduce the nuclear threshold to the lowest
9 possible level with the lowest-yield nuclear scalpels. We
10 want it to be clear. Nuclear weapons are brutish. They're
11 meant to be different, "You -- if you cross this line, we're
12 not going to mess around with trying to match you, scalpel
13 for scalpel. You've changed the conflict, and you've
14 changed our stake, with crossing the nuclear threshold."

15 So, I don't see a deterrence rationale that's strong
16 and credible for going for new. There you have it.

17 Senator Sessions: Thank you.

18 Dr. Harvey: Could I elaborate on that one point?

19 Senator Sessions: Caused us all to think.

20 Who else would like to comment on that?

21 Dr. Harvey: I'd like to comment on the point that --

22 Senator Sessions: Dr. Harvey.

23 Dr. Harvey: -- Senator Donnelly made. And I -- it
24 reinforces, I think, Frank's comment -- is that -- I
25 personally am not optimistic that a -- that you can manage

1 escalation once nuclear weapons are used. That's my view.
2 And I believe that's our -- that's the view of many in the
3 United States. I'm not sure that's Mr. Putin's view. And
4 that's the question. How do I convince him that he -- he
5 may think he can manage escalation. So, what do I need to
6 do to convince him that he -- that should introduce doubt in
7 his mind about that? And what that means to me is, we've
8 got to think about that, and that's what -- exactly what the
9 next Nuclear Posture Review -- and we shouldn't necessarily
10 foreclose any option until we understand what we think we
11 need.

12 Senator Sessions: Dr. Payne -- and before we get into
13 it, I would just say: Carrying through on a thorough
14 effective modernization would be a modest step in that
15 direction, would it not, Dr. Roberts?

16 Dr. Roberts: More than modest, I think.

17 Senator Sessions: Dr. Payne?

18 Dr. Payne: I just want to add that I agree with Brad's
19 point -- I think we all do -- that we don't want to mimic
20 what the Russians are doing for the sake of mimicking the
21 Russians. I don't know that there's any value in that at
22 all. The question is, what do we need to do to shut down
23 the Russian strategy? Because that we do need to do, and we
24 all agree that we need to shut down this Russian strategy.
25 And so, the question isn't mimicking the Russians; it's, Is

1 there a gap that we can fill that will contribute to
2 shutting down the Russian strategy? You know, I don't know
3 that something new is necessary to do that, if we define
4 "new" the way Dr. Harvey rightly, I think, defined it. I
5 don't know that something new is necessary for that. At the
6 same time, I don't think we should come in and, a priori,
7 say we're not going to do anything new. I mean, we should
8 be able to take a good look, and try and understand, What is
9 it that the Russians are doing? What's their strategy based
10 on? And what does it take to fill whatever gap they see,
11 when we understand what that gap is? And we're just at the
12 nursery slopes of doing that, frankly.

13 Senator Sessions: Senator King?

14 Senator King: I would argue, taking off from that
15 point, is that the development of the new standoff cruise
16 missile isn't new. It's simply a making the -- that arm of
17 the triad effective, based upon current realities. You all
18 would agree?

19 [All three witnesses nodded in agreement.]

20 Senator King: Okay.

21 Again, change the subject a bit. It appears that the
22 Russians violated the INF Treaty. Is the INF Treaty still
23 in our best interests? Should we move on beyond it? Should
24 we take their -- should -- how do we respond? And do we
25 respond possibly by simply saying we're no longer going to

1 abide by it, either?

2 Mr. Miller: I think that this -- we're right back
3 into, "We don't want to mimic what the Russians are doing."
4 The Treaty is of value if the Russians -- if the Russians
5 abide by it. They've broken the Treaty. We need to work to
6 try to get them back into compliance with it. But, on the
7 assumption that they don't, then we ought not maintain the
8 fiction that the Treaty, in fact, is governing both sides,
9 that it's a -- they've made it a dead letter. That said,
10 given that introducing new groundbased weapons into NATO is
11 always a neuralgic issue, has been from the very beginning
12 of the alliance, I would not try to match what the Russians
13 are doing with a similar kind of weapon system. I'd try to
14 use our intelligence and our brains to figure out a new way
15 of offsetting that capability, should we decide that's
16 necessary for deterrence. And my own inclination would be
17 to go back to some sort of a submarine-launched cruise
18 missile.

19 Senator King: Dr. Roberts?

20 Dr. Roberts: Recalling my case, in my opening
21 statement, about the importance of Asia to this discussion,
22 if we had the opportunity to produce intermediate-range,
23 conventionally-armed ballistic missiles, this would be a
24 useful response to China's anti-access area denial
25 strategies, and a -- an important tool in the assurance of

1 our allies, and also avoiding a potential difficulty among
2 our allies as South Korea pursues theater-range ballistic
3 conventionally-armed missiles of its own, thus inciting some
4 Japanese interest in the same.

5 So, if the INF Treaty were to no longer be binding on
6 the United States, there might be certain advantages to
7 derive for our interests in the Asian security environment.

8 Senator King: Thank you, Mr. Chairman. This has been
9 a very valuable hearing. I appreciate you.

10 Senator Sessions: We're lucky to have such a wise
11 panel.

12 Senator Donnelly, anything further?

13 Senator Donnelly: No. Their wisdom has exceeded my
14 ability to absorb it.

15 [Laughter.]

16 Senator Sessions: That is a ditto here.

17 Thank you all for your comments. And I think we've all
18 gotten a sense of -- we need to get this right. We don't
19 need to blunder in short-term thinking and make some errors
20 that might have ripple effects that we don't foresee today.

21 Thank you all.

22 We are adjourned.

23 [Whereupon, at 4:18 p.m., the hearing was adjourned.]

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