

The PRESIDING OFFICER. Under the previous order, the Senator from Arizona is recognized.

#### MISSILE DEFENSE

Mr. KYL. Madam President, by way of introduction, my remarks will primarily be in support of an amendment that will be offered by the distinguished ranking member of the Armed Services Committee, the Senator from Virginia, tomorrow to restore missile defense funding that was cut in the Armed Services Committee.

I wanted to note that this afternoon the President advised both Senator MCCAIN and I that he would be traveling to our home State of Arizona tomorrow—specifically to the town of Show Low which is under threat of this raging wildfire we have all seen and read about—and he graciously offered to allow us to accompany him on that trip. But, obviously, the importance of this Defense authorization bill—specifically, the votes we will have tomorrow, including an effort to restore funding for the missile defense portion of the bill—requires that we remain.

I am going to speak to the issue that will involve his visit to Arizona tomorrow, why these raging wildfires don't need to continue to devastate our country, what we can do about it, and what we need to do about it as a country at the conclusion of my remarks on the Defense bill. I will address my comments first to this bill which is before the Senate, and which we will be considering this week.

It seems to me that there is a strange disconnect between recent developments in the world and some of the contents of the bill that we are considering.

For example, in early May, Iran—newly dubbed by the State Department as the No. 1 terrorist nation in the world—conducted a successful test of its 800-plus-mile-range Shahab III missile. There are some reports that Iran is now set to begin domestic production of the Shahab III which will be able to reach Israel, as well as U.S. troops deployed in the Middle East and South Asia.

On May 7, the Associated Press, citing an administration official, reported that Iran is continuing the development of a longer range missile, the Shahab IV, with an estimated range of 1,200 to 1,800 miles. The Shahab IV will be able to reach deep into Europe.

That means that the fanatical mullahs in Tehran will be able to put a multitude of U.S. allies and our troops within striking distance of their missiles and weapons of mass destruction.

We have also just witnessed one of the scariest standoffs in recent decades with India and Pakistan angrily pointing their nuclear-tipped missiles at each other.

These developments represent a dramatic increase in the worldwide missile threat.

You might think that the United States would therefore want to accel-

erate its effort to build a defense against such weapons. But the bill before us today would seriously hamper our ability to do exactly that. This is not something that the American people will stand for.

This is why I believe that tomorrow it is incumbent upon the Members of this body to listen to their constituents, to listen to the President of the United States, to look at the events around the world, and to reconnect our policy here in the Senate to the realities of the world around us.

This bill makes very deep and damaging cuts to the President's proposed budget for missile defense. Unless remedied, those cuts will seriously limit our ability to end our current—and let me say our unacceptable—vulnerabilities to ballistic missile attack.

As I noted, the threat from ballistic missiles continues to grow.

In addition to the two examples I mentioned, consider this: Today, there are nearly three dozen countries that either have or are developing ballistic missiles of increasing range and sophistication. That includes Iran's fellow "axis of evil" partners—or members, I should say—Iraq and North Korea, as well as the terrorist regimes of Syria and Libya.

Let us take a look at some of these developments, which, unless indicated otherwise, are taken straight from the December 2001 National Intelligence Estimate on Foreign Ballistic Missiles. That is the estimate of our intelligence community about this threat.

North Korea, despite the moratorium on flight testing that it is supposedly adhering to, continues its development of long-range missiles. According to press accounts and administration officials, North Korea has recently conducted rocket motor tests of these missiles.

In fact, North Korea's Taepo Dong 2 missile, which is capable of reaching the United States with a nuclear-weapon-sized payload, may now be ready for flight testing.

As to Iraq, despite U.N. sanctions, Baghdad has been able to maintain the infrastructure and expertise necessary to develop longer range missiles.

Its Al-Samoud missile, with a 60 to 90-mile range, probably will be deployed soon.

And Iraq retains a covert force of scud-variant missiles, launchers, and conventional, chemical, and biological warheads.

Not to forget about China, the intelligence community assesses that it could begin deploying its 5,000-mile-range DF-31 missile during the first half of this decade. That means essentially any time now. China's even longer range mobile missile, the DF-41, could be deployed in the latter half of the decade.

China also maintains a robust force of medium-range CSS-5 missiles which can reach our troops in Japan and Korea.

Of course, China continues to add to its arsenal of short-range missiles which already number in the several hundreds and are deployed opposite Taiwan.

According to the intelligence community—and I am quoting now—

China's leaders calculate that conventionally armed ballistic missiles add a potent new dimension to Chinese military capabilities, and they are committed to continue fielding them at a rapid pace. Beijing's growing short-range ballistic missile force provides China with a military capability that avoids the political and practical constraints associated with the use of nuclear-armed missiles. The latest Chinese short-range ballistic missiles provide a survivable and effective conventional strike force and expand conventional ballistic missile coverage.

Even the terrorists are getting into the act. According to a variety of news sources, some of which have quoted U.S. and Israeli officials, Iran and Syria have supplied Lebanon's Hezbollah terrorist organization with Fajr-5 missiles, which, at 40 to 50 miles, can reach deeper into Israel than any rockets Hezbollah has fired so far. One press account stated further that Hezbollah is assembling chemical warheads for these missiles.

These developments, among others, led to the following conclusions in the December 2001 National Intelligence Estimate:

One, short- and medium-range ballistic missiles, particularly if armed with weapons of mass destruction, already pose a significant threat overseas to U.S. interests, military forces, and allies.

Two, proliferation of ballistic-missile-related technologies, materials, and expertise—especially by Russian, Chinese, and North Korean entities—has enabled emerging missile states to accelerate development timelines for their missile programs.

In other words, this is making the point that instead of having to always indigenously develop a missile capability, a country can now buy these literally readymade missiles from countries such as China, North Korea, and Russia.

Three, most intelligence community agencies project that, before 2015, the United States most likely will face ICBM threats from North Korea and Iran, and possibly from Iraq, as well as from the existing ICBM forces of China and, of course, Russia.

Four, the probability that a missile with a weapon of mass destruction will be used against U.S. forces or interests is higher today than during most of the cold war, and will continue to grow as the capabilities of potential adversaries mature.

After September 11, we dare not willfully remain vulnerable to these threats. But that is essentially the impact of the partisan cuts that were made to this bill when it was before the Armed Services Committee.

Of course, there are those who suggest that the September 11 attacks demonstrated that the major threat to

this country comes from relatively low-tech attacks: suitcase bombs and the like. But what September 11 really demonstrated is that our enemies have the will and the ruthlessness to exploit our weaknesses in any way they can. In other words, if we are weak in a given area, that will be an area attempted to be exploited. Therefore, if we have no missile defense, is there any question that a potential adversary would see the ability to strike us with ballistic missiles as a potential area for their policy?

The new types of threats we face from terrorists and the rogue regimes that support them cannot be dealt with solely through traditional deterrence. President Bush was right when he recently remarked at West Point:

Deterrence—the promise of massive retaliation against nations—means nothing against shadowy terrorist networks with no nation or citizens to defend.

In addition, I make this point. I do not think the majority of the Iranian or Iraqi people or Syrian people detest the United States or wish to attack us with nuclear weapons.

If tyrants like Saddam Hussein, who dictatorially rule some of those countries, were to use a weapon of mass destruction against our ally Israel, or even against U.S. troops abroad, I am not sure the President of the United States, in those circumstances, would want to retaliate with a nuclear weapon in the middle of Baghdad, let's say, or some other Iraqi city.

Clearly, we would rain massive retaliation upon Saddam Hussein, but we would have to think very carefully about a nuclear deterrent in a situation such as that.

So traditional deterrence may or may not be an appropriate response to a terrorist attack. The bottom line is, we are not always dealing with rational actors. To depend on nuclear deterrence alone with a dictator like Saddam Hussein, who, remember, used chemical weapons against his own people, or a terrorist like Osama bin Laden would be to place American lives in the hands of madmen. That, itself, is mad when we have the ability to defend against such an attack.

That alternative, of course, is to develop and deploy missile defenses. They will add to our options in terms of a crisis. Defenses against missiles will help the United States avoid being frozen into inaction by the threat of a missile attack.

This is the threat of blackmail: A country that acquires a nuclear weapon and the ballistic missile capability to deliver it will be in a much stronger position to dictate what it wants around the world—or to prevent the United States from acting—than one that does not. It reduces our options significantly.

Just imagine the impact on our decision to go to war against Saddam Hussein in 1991 had he been able to threaten the United States or our allies with nuclear missiles. Missile defense will

also reduce the incentives for proliferation by devaluing offensive missiles. If a rogue actor views missiles as likely to be effective because of our lack of defenses, they will be developed. If, on the other hand, we have defenses, then they will obviously be less inclined to spend as much time or money trying to acquire it.

Finally, and perhaps most important of all, in the worst case scenario, we will save American lives with missile defense.

So we should not be fooled by the fact that the bill still authorizes several billion dollars for something called missile defense. Make no mistake that the cuts in this bill are very carefully designed to gut the administration's plans to protect the American people from missiles.

If one had wanted to leave intact a program that looked very much like missile defense, but very surgically gutted the key components of it, one could not have done better than the language and the money that comes out of the Armed Services Committee bill.

Allow me to describe some of the features of the President's new approach. We are very much aware that the President has decided that we need to transform our military. And the President has proposed an aggressive overhaul of not only the missile defense program but other programs from the previous administration.

Let me describe some of the features of this transformational approach: First, a single, integrated architecture to command and control all of the various components of a missile defense system. What this does is to move us from the old concept of several unlinked systems to one overarching system composed of several integrated components or elements, as they are now called. This system removes the need for each element to do everything and, instead, distributes the basic tasks—such as launch detection, tracking, and battle management—across the entire system.

So instead of having three or four specific components that do everything, you have several ways of attacking the problem, all linked together; therefore, they are much more effective in their overall ability to detect, track, and destroy an enemy missile.

Secondly, multilayered defenses capable of intercepting missiles in all phases of flight, including the boost, midcourse, and terminal phases is an element of the President's transformation plan. The obvious benefits of this feature is that it will give us several shots, if necessary, to knock down a missile after it has been launched.

The point is, we do not have very much time, when a missile has been launched against us, to make a decision to launch a counterattack. By the time we do that, the missile could well be coming down on top of us. We need the ability to have multilayered defenses which can be effective in the

boost phase, as the offending missile is going up, which can try to attack it in midcourse, and, as a last resort, as it is barreling down on us at something like 17,000 miles an hour.

But if you only rely on that last system, you are not going to get multiple shots. You are going to get one shot. And it may not always do the trick. In that case, you have lost.

Third, the ability to deploy defenses rapidly in the event of an emergency is one of the critical components of the President's plan. To accommodate these goals and others, the administration reformed the Missile Defense Agency and gave it wide latitude to pursue innovative approaches rather than the former approach which was to have a long-term project of design and research and then development and then deployment.

The problem is that the bill on the floor today takes dead aim at each of these worthy efforts. The system's integration and command and control accounts, the brains of the whole system, if you will, are reduced in funding by two-thirds. That is gutting the program. To cut the funding by two-thirds, literally, imagine the human body. It looks just like it did after the operation except for one thing: You have taken out the brain. It is not going to work very well. That is the first damage that was done to the President's program as a result of Armed Services Committee action.

Programs to intercept missiles in the boost phase, particularly those employing new basing modes and technologies, are virtually wiped out. Funding for 10 THAAD test missiles, which would be deployed in an emergency, is eliminated, and the Missile Defense Agency staff is cut by two-thirds. Essentially what the bill leaves us is the old piecemeal approach, with many of the most promising technologies starved of funding and a variety of impediments created to early deployment of the President's proposed system.

It is quite interesting that just as these cuts were being made, cuts that will wreck the Bush administration's approach to protecting the American people from missiles, the ABM Treaty lapsed into history on June 13. The bill is an attempt to revive the spirit of that treaty by those who have never accepted President Bush's decision to opt out of it. If this is the case, they are in dwindling company.

A year ago, the anti-missile defense, pro-ABM Treaty crowd created much hubbub over how any decision to renounce the ABM Treaty would supposedly alienate our allies, cause a major rift with Russia, and spark an arms race. It was going to be a disaster. Well, as it turns out, none of those dire predictions came true. Let's have a look.

Have we alienated our allies? As of last count, 12 of our 19 NATO allies have contributed troops to our campaign in Afghanistan, 7 countries have sent their troops into combat alongside

our own, and dozens of countries are contributing to our war on terrorism.

Did it cause a rift with Russia? No. Russia has just entered into a new partnership with NATO, and President Bush just signed a communique with President Putin of Russia in May, committing both sides to cooperation on a host of issues, including, of all things, missile defense.

How about a new arms race? No, again. President Bush also signed a treaty with Russia under which both sides intend to reduce strategic nuclear warheads to between 1,700 and 2,200. So the doomsayers were wrong. It is true that Russia and many European countries might have preferred that President Bush not renounce the ABM Treaty, but it seems these countries were not quite as wedded to this outmoded document as some of its American supporters.

The ABM Treaty, as the cold war that gave birth to it, is gone. Russia and the United States, despite a number of disagreements and interests that don't always intersect, have moved beyond enmity toward a new, more cooperative relationship, and at the same time we have entered into a new area in international relations in which the threats to this Nation are increasingly complex and difficult to predict.

So the President expended a great deal of energy and capital in working with our allies and Russia to terminate the cold war and its documentation in the form of the ABM Treaty, to enter into new agreements with Russia, to demonstrate we are friends, not enemies. In order to be able to pivot and address the new threats that face us, the threats from these Third World rogue powers, he proposes a national missile defense.

Having gone to all of that trouble—and I shouldn't characterize it as trouble so much as devoting a great deal of America's prestige and commitment to this effort—we now have opponents in the Senate who would go right back to a missile defense of the kind that would be authorized by the ABM Treaty, which is to say virtually none at all. That is wrong, very wrong.

The traditional cold-war-style deterrence is not going to deal with the threats we face today. It is time for ABM Treaty supporters who have stood in the way of missile defense for nearly 30 years to recognize this new reality. This reality was brought home with horrible abruptness on September 11. Just imagine if that day were to repeat itself but this time with a ballistic missile armed with a nuclear or chemical or biological warhead. The only responsible course of action to deal with that possibility is to proceed with the most robust program of missile defense development we can muster. That is what the President proposed.

The Pentagon's approach to missile defense is exactly that. It is an aggressive, forward-looking plan to provide the American people with protection against ballistic missiles at the ear-

liest possible date. Indeed, this body overwhelmingly voted to make such a plan U.S. policy in the 1999 Missile Defense Act.

We have to fund the plan, and we can't allow those who oppose missile defense to go in and surgically remove the key components of the President's program in order to effectively defeat missile defense while at the same time arguing that they have left the program intact. It does no good to spend \$5 or \$6 billion on a program without a brain, on a program that can't communicate among its independent parts, and on a program that does not begin the transformational policy the President has outlined.

I am hopeful that when we vote on the amendment of the Senator from Virginia tomorrow, which restores the funding that was proposed by the President, the Senate will overwhelmingly stand with the President and with the American people, with common sense, to be able to defend the American people against ballistic missile attack. The issue is literally that stark.

If we support the committee action, while people can claim that they still support missile defense, the reality will be that that program cannot go forward because it has effectively been denuded by the cuts that have been made. We have to support the amendment of the Senator from Virginia.

I wanted to talk about that tonight because I am not sure that tomorrow I will be able to engage in the debate prior to the vote. As I said, it is a vote which we must be here to cast, notwithstanding a devastating tragedy occurring in my home State.

Since I believe it is the desire of the majority to terminate my remarks on the Defense authorization bill and the Warner amendment so that we can go into morning business for a little bit and I can discuss that subject separately, I ask unanimous consent that a Wall Street Journal editorial of June 17, 2002, be printed in the RECORD on the Defense authorization bill.

There being no objection, the editorial was ordered to be printed in the RECORD, as follows:

[From the Wall Street Journal, June 17, 2002]

**DON'T GO WOBBLY**

(By Margaret Thatcher)

The crisis in the Indian subcontinent is currently engaging the diplomatic activity of all the great powers. Rightly so. The calamity a nuclear exchange could bring is truly dreadful to contemplate.

We can expect that this somber fact alone will exercise an effective restraint on both sides. But we cannot assume that the nuclear deterrent effect is the same in the Cold War and post-Cold War worlds. This reflection has implications far beyond the subcontinent. It goes to the heart of our priorities since the events of Sept. 11.

**UNTOLD DAMAGE**

During most of my political lifetime the two superpowers, the U.S. and the Soviet Union, had massive nuclear arsenals, even a small proportion of which would have inflicted untold damage. But this knowledge

imposed discipline on the aggressive expansionism of the Soviets and made for a kind of stability. There were, in fact, well-understood limits on the extent to which either side would directly challenge the other's interests. The exceptions—like the Cuban Missile Crisis of 1962—only proved the rule.

The nuclear deterrent did not prevent all war; the conflicts in South East Asia show that. But the West's possession of a credible nuclear deterrent prevented nuclear war. It also prevented conventional war in the Alliance's most vulnerable sector—Europe. The calculation behind the deterrent was not completely fail-safe. But the rules were clear, the psychology understood and each side's sticking points known.

One cannot say the same with India and Pakistan. The conflicting claims on Kashmir are compounded by lack of experience in coping with the temptations offered by their own nuclear capabilities. President Clinton's attempt four years ago to persuade the hostile neighbors to relinquish their nuclear status was doomed to failure. The task of President Bush and his envoys now is both more complex and more realistic: to remind New Delhi and Islamabad that war, even a victorious conventional war, would in the long run damage their nations' interests more than a messy and unsatisfactory peace. The dangers of a nuclear escalation only make that more true.

But this crisis also holds wider lessons for us. The proliferation of weapons of mass destruction has fundamentally changed the world in which we and our children will live. India's and Pakistan's nuclear arsenals have given them the power to inflict huge destruction. But neither is a rogue state. India is a democracy. Pakistan is not, but it has a ruler who has demonstrated his willingness to side with democracies against terror. Both are basically friendly to the West.

Proliferation of WMD offers far more menacing risks when those weapons are in the hands of the West's sworn enemies. We have to assume that if those who hate us are confident that they can threaten us or our allies by this means they will do so. The threat alone could transform the West's ability to intervene in order to protect its interests or to undertake humanitarian missions. In some cases we must expect the rogue states to try to go beyond mere threat.

It is still true that any such action would be irrational. There can be no doubt that response to the use of WMD against us would be massive—probably nuclear. Yet even this awesome prospect might not deter a fanatic who cared nothing for his own country or safety. We already see such a mentality at work in the suicide bombers. At the rate at which nuclear, chemical and biological weaponry and missile technology have been proliferating we must expect that at some point these weapons will be used.

The is quite simply the greatest challenge of our times. We must rise to it.

The right strategy has been clearly enunciated by President Bush. America must speedily build a ballistic missile defense system which will afford protection against missiles launched from anywhere in the globe. The president has made progress in winning the argument for this policy. He deserves the fullest cooperation from all who stand to gain from it, including Britain.

We also have to isolate rogue states that are seeking to develop (or have developed) WMD, and eliminate the threat they pose. Sometimes this will be possible by a mixture of diplomatic sticks and carrots. Iran for example, was quite rightly classed by the president as part of the "axis of evil." It has a missile program which poses a threat to

Israel's security—a threat that Iran's support for terrorism against Israel only magnifies. But this is part of a more complex picture. Iran is a theocracy which is edging toward democracy. At a certain point, the continuing growth of civil society in Iran may require its rehabilitation.

North Korea, on the other hand, is beyond reform. Diplomacy has little value. Indeed, North Korea has already been appeased too much. It is in the grip of a psychotic Stalinist regime whose rule is sustained by terror and bankrolled by those who buy its missiles. It is one of the few states that could launch an unprovoked nuclear strike. The regime must go, and I fear that it may not go peacefully.

Between Iran on the one hand and North Korea on the other, the list of rogue states will be the subject of continuing revision and debate. And in each case there will be a mix of policies appropriate to achieve our goal of removing the threat which these states pose.

That is also true of Iraq. I have detected a certain amount of wobbling about the need to remove Saddam Hussein—though not from President Bush. It is not surprising, given the hostility of many allies to this venture, that some in Washington may be having second thoughts. It is, of course, right that those who have the duty to weigh up the risks of particular courses of action should give their advice—though they would be better to direct their counsel to the president not the press. But in any case, as somebody once said, this is no time to go wobbly.

Saddam must go. His continued survival after comprehensively losing the Gulf War had done untold damage to the West's standing in a region where the only forgivable sin is weakness. His flouting of the terms on which hostilities ceased has made a laughingstock of the international community. His appalling mistreatment of his own countrymen continues unabated. It is clear to anyone willing to face reality that the only reason Saddam took the risk of refusing to submit his activities to U.N. inspectors was that he is exerting every muscle to build WMD. We do not know exactly what stage that has reached. But to allow this process to continue because the risks of action to arrest it seem too great would be foolish in the extreme.

#### COERCIVE MEASURES

I do not claim to know the precise balance of coercive measures required now to remove Saddam: only those with access to the best intelligence can assess that. A major deployment of ground forces as well as sustained air strikes will probably be required. And it will be essential that internal groups opposed to Saddam be mobilized and assisted. No one pretends that an equivalent of the Afghan Northern Alliance is available. But I suspect that once the aura of terror surrounding the Iraqi regime is dispelled we may be astonished by the number of opponents who come forward to help finish the job.

Finally, a warning: We should not try now to predetermine the final outcome for a post-Saddam Iraq. One of the errors in 1991 was an exaggerated fear of the possible breakup of Iraq if the measures required to topple Saddam were taken. The Kirds and Shiites have since endured years of murderous repression as a result. In great strategic questions it is possible to be too clever. We need to concentrate on what we can achieve with the instruments at hand, and then press ahead boldly with the task before us. That will be quite taxing enough.

Mr. KYL. Madam President, that terminates my remarks on the bill. May I inquire of the Chair, is it correct that at the conclusion of my remarks the Chair was prepared to put the Senate into a period of morning business?

The PRESIDING OFFICER. The Senator is correct.

The Senate is in morning business.

#### FOREST FIRES IN ARIZONA

Mr. KYL. Madam President, I rise to speak on the crisis pending before the whole State of Arizona.

Arizona has never had a tragedy like this Rodeo fire. It has now consumed an area 10 times the size of the District of Columbia. It has burned at least 200 homes, probably more. We can't go back into areas that have been burned because it is still too hot. It has destroyed a lot more buildings than that, and animals, both domestic and a lot of the animals that populate our beautiful forests.

People who are not familiar with Arizona might not understand how there can be a forest fire in Arizona. But the world's largest ponderosa pine forest stretches from the Grand Canyon into New Mexico, across a rather wide swath of Arizona at an elevation of about 7,000 feet. It is beautiful country, with pine trees, aspen, fir, spruce, lakes, rivers—not the kind of environment you would ordinarily associate with Arizona. It is a place to which many Arizonans repair during the summer when it is very warm “down in the valley,” as we call it. It contains some of the most interesting and unique habitat in the United States—habitat, both flora and fauna, which is not preserved by wildfire but is absolutely and utterly destroyed.

You might be interested to know that an area not far from this—75,000 acres—burned a couple years ago, and it was the largest black bear habitat in the whole United States. When you think of Arizona, think of habitat for an enormous variety of animals, including fish and birds, that has now been destroyed by this fire. We have the Apache golden trout, which, at great pains and at great cost, the Apache Indian tribe and the U.S. Government have tried for years to bring back to the area of the White Mountain Apache Indian Reservation and surrounding areas. It has been dealt a huge setback because of the fire that has gone through the area which this trout ordinarily populates. The erosion that will come from the devastation caused by this fire will clog the streams, and it is unlikely, I have heard today, that the Apache trout will be able to make a comeback in this area.

I am sure there are many other species—the gosant, just to mention one—that will be devastated as a result of this fire.

Yet it is interesting that some of the radical environmentalists in our country are the very ones who are responsible for preventing the kind of management of our forests that might have prevented this devastation. Their view is that man should not touch the forest. As one of them was reported as saying today: If the price for that is a 500,000-acre fire with an entire town like Show Low, AZ, devastated, then so be it; that is the way it should be. That is a misreading of history and science.

A century ago, before we overgrazed the area, and before we employed a pol-

icy of fighting all of the fires, fire regularly burned through our beautiful ponderosa pine forests. We had, about every 7 years, a small fire that would burn the “fuel” on the ground and a few of the smaller trees, but it could not hurt the great big, beautiful trees—maybe 50, or 60, or 70, or 80 per acre. Now we have 3,000 trees per acre, or more, because we have suppressed the fires and the grazing has resulted not in more grass growing but all of these seedlings growing.

If you look at a lot of these forests in Arizona today, instead of the big sequoia trees, which is what the mature ponderosas look like, you see what is called a “dog-haired thicket,” which is a forest so thick with stunted, little—frankly, ugly—trees and brush that they say a dog cannot even run through without losing half of his hair. It is hard to walk through these forests; they are so thick with this “fuel,” as the Forest Service people call it.

What happens when there is a lightning strike or a man-caused fire, as in this case? Instead of burning around the ground, licking at the base of these big trees—and they shrug it off—it roars throughout the underbrush and climbs up the ladder of the smaller trees, up through the higher trees, and finally the superheated structure at top of the trees explodes into flame, and the flames swirl, creating air currents, and even affecting the weather. The fire then races across the top of the forest, devastating everything in its path. The heat is so intense, the soil is sterilized and the waxes from the needles that ordinarily don't bother the forest floor melt and literally create a coating on the floor. The rains that may someday come—although we have not had any for a long time—will wash the unprotected soil into the streams, creating huge erosion problems, and it will be a hundred years before this forest once again looks like it did a week ago.

That is just the impact on the forest itself. The other fauna—various varieties of animals, birds, fish, and insects—are destroyed. That is not to mention the human tragedy. The elderly people who moved to these communities, because they are retirement and recreation communities, don't want to leave their homes. A family I heard about saw the pictures and saw that their outbuildings had been burned, and they had no idea whether their own home was still standing. The town of Show Low, with 30,000-plus people, was evacuated. Every one of the citizens was forced to leave town. The fire is within the town limits, and it has been there for basically a day now, as the firemen from our State and from other places in the country are battling to keep it from totally destroying that town.

Almost as bad, immediately to the south of town there is basically a clear path of forest, tinderbox dry, all the way to New Mexico that would literally devastate the entire Apache-