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(ROHRBACHER)

11/23/87 - 4 P.M.

ADDRESS ON SDI/INF
MARTIN-MARIETTA PLANT

DENVER, COLORADO
TUESDAY, NOVEMBER 24, 1987

THANK YOU. AND THANK YOU MR. (POE-NAL)
AND GENERAL ABRAHAMSON. IT IS AN HONOR FOR
ME TO BE AT MARTIN-MARIETTA WITH ALL OF YOU,
MEN AND WOMEN OF SCIENCE AND ENGINEERING,
WHO PLAY SUCH A VITAL ROLE IN THIS AGE OF
TECHNOLOGY. I WILL HAVE TO ADMIT I'M A BIT
AWED BY WHAT I'VE SEEN AND HEARD TODAY.

OF COURSE, NOT ALL MY PREDECESSORS
SHARED MY SENSE OF WONDER ABOUT SUCH THINGS.
ONE, PRESIDENT RUTHERFORD B. HAYES PLAYED
HOST TO A NOTABLE SCIENCE AND TECHNOLOGY
EVENT BACK IN THE 1870's -- A DEMONSTRATION
OF THE NEWLY INVENTED TELEPHONE.

PRESIDENT HAYES' REACTION: "THAT'S AN AMAZING INVENTION," HE SAID, "BUT WHO WOULD EVER WANT TO USE THEM?" [PAUSE] WHEN I HEARD HIM SAY THAT, I THOUGHT HE MIGHT BE MISTAKEN.

SERIOUSLY THOUGH, I WAS BORN IN A SMALL TOWN IN THE FARM COUNTRY OF ILLINOIS. PROGRESS IN THOSE DAYS MEANT INDOOR PLUMBING, ELECTRIC LIGHTS, A TELEPHONE, AND LATER, PERHAPS, A RADIO CRYSTAL SET. JUST IN MY LIFETIME, WE'VE GONE FROM A TIME WHEN MANY, IF NOT MOST, PEOPLE TRAVELED BY HORSE POWER -- AND I MEAN THE KIND THAT EATS HAY -- TO AN ERA OF SUPERSONIC PASSENGER SERVICE.

AND JUST POSSIBLY BEFORE I LEAVE THE SCENE,
WE WILL HAVE DEVELOPED A CRAFT THAT WILL
TAKE OFF FROM RUNWAYS AS PLANES DO TODAY,
BUT ONCE AT HIGH ALTITUDE, THIS CRAFT WILL
ROCKET ITSELF INTO SPACE AND ZIP TO ITS
DESTINATION AT 18 OR 20 TIMES THE SPEED OF
SOUND -- FROM NEW YORK TO TOKYO IN
90 MINUTES. [PAUSE] THIS COULD BRING A
WHOLE NEW MEANING FOR "SUSHI TO GO."

THE AMERICA I WAS BORN INTO WAS
ACCLAIMED FOR ITS LIBERTY AND OPPORTUNITY,
YET THAT OPPORTUNITY FOR WHICH WE WERE SO
PROUD HAS BEEN EXPANDED TODAY BEYOND
ANYTHING THE AMERICANS OF MY YOUTH COULD
POSSIBLY HAVE IMAGINED. AFFORDABLE
WORLD-WIDE COMMUNICATIONS AND TRANSPORTATION
HAVE NOT JUST EXTENDED, BUT ELIMINATED
HORIZONS.

COMPUTER CAPABILITY, WHICH A SHORT TIME AGO WAS AVAILABLE ONLY TO LARGE CORPORATIONS, IS NOW BEING PUT TO USE BY SMALL BUSINESS AND INDIVIDUAL ENTREPRENEURS.

WE ARE IN AN AGE WHEN THE COMMON MAN CAN DO AND EXPERIENCE WHAT IN PAST TIMES WAS ENJOYED ONLY BY ROYALTY, ARISTOCRACY, AND THE ELITE. JEFFERSON, WASHINGTON, AND MADISON LAID THE FOUNDATION FOR LIBERTY AND EQUALITY; EDISON, EINSTEIN, GODDARD, AND OTHERS LIKE THEM, LIKE MANY OF YOU, BUILT ON THAT FOUNDATION. IT HAS BEEN TECHNOLOGY AND FREEDOM, TOGETHER, THAT HAVE PUSHED AMERICA EVER FORWARD AND MADE HER THE LAND OF ABUNDANCE AND PROGRESS WE LOVE SO DEARLY.

ARTHUR BALFOUR ONCE NOTED, "SCIENCE IS THE GREATEST INSTRUMENT OF SOCIAL CHANGE... THE MOST VITAL OF ALL REVOLUTIONS WHICH MARKED THE DEVELOPMENT OF MODERN CIVILIZATIONS."

SCIENCE AND TECHNOLOGICAL-BASED REVOLUTIONS IN HEALTH CARE, FOOD PRODUCTION, COMMUNICATIONS, TRANSPORTATION, MANUFACTURING, AND OTHER ENDEAVORS HAVE CHANGED HOW WE LIVE AND THE QUALITY OF OUR LIVES. BEFORE JOINING YOU, I WAS GIVEN A CLASSIFIED UPDATE ON SOME OF THE KEY ELEMENTS OF THE PROGRAM YOU'RE WORKING ON. IT'S CLEAR THAT THE PROJECT IS BOUNDING FORWARD AND I COULDN'T BE MORE PLEASED. AFTER WHAT I HAVE SEEN TODAY, I BELIEVE THAT MANKIND IS AGAIN ON THE EDGE OF A REVOLUTION THAT WILL CHANGE THE BASIC ASSUMPTIONS UPON WHICH WE BASE OUR DECISIONS AND RESHAPE THE WORLD IN WHICH WE LIVE.

UNTIL NOW, MANKIND'S SEARCH FOR SECURITY OFTEN FOCUSED ON EXPANDING THE ABILITY TO LASH OUT, TO KILL, TO DESTROY. TECHNOLOGICAL ADVANCES THROUGHOUT THE AGES INCREASED MAN'S DESTRUCTIVE POWER, AND THOSE NATIONS THAT DID NOT KEEP PACE SOON FELT THE STING OF DEFEAT AND THE PAIN OF SUBJUGATION. BUT HUMANITY, IN ALMOST EVERY CASE FOUND A DEFENSE FOR EVERY OFFENSE, AND THAT IS EXACTLY WHAT WE ARE SEEKING: A DEFENSE AGAINST MANKIND'S MOST DEADLY WEAPONS: BALLISTIC MISSILES.

YOU ARE LABORING TO DEVELOP A DEFENSIVE SYSTEM THAT WILL CHANGE HISTORY. ONCE YOU'VE COMPLETED YOUR WORK, THE WORLD WILL NEVER BE THE SAME. I SUGGEST IT WILL BE A BETTER AND A SAFER WORLD. AND WHAT BETTER LEGACY CAN THIS GENERATION LEAVE THAN A SAFER WORLD?

OUR STRATEGIC DEFENSE INITIATIVE OFFERS MANKIND SECURITY THROUGH PROTECTION RATHER THAN RETALIATION. IT IS A SCIENTIFIC ADVANCE THAT WILL BE JUDGED A SUCCESS BASED NOT ON HOW MANY LIVES IT IS CAPABLE OF TAKING -- WHICH IS NONE -- BUT ON HOW MANY IT IS ABLE TO PROTECT. IT IS A MORAL AS WELL AS SCIENTIFIC ENDEAVOR WORTH EVERY MINUTE AND HOUR YOU ARE DEDICATING TO IT. OUR GOAL IS TO STRENGTHEN DETERRENCE BY MOVING AS SOON AS WE ARE READY TO INCREASING RELIANCE ON DEFENSES TO KEEP THE PEACE.

I REALIZE THAT BEING A GOVERNMENT PROJECT, WITH ALL THE POLITICS THAT GOES WITH THAT REALITY, YOUR WORK CAN BE FRUSTRATING. WERNHER VON BRAUN ONCE SAID, "WE CAN LICK GRAVITY, BUT SOMETIMES THE PAPERWORK IS OVERWHELMING."

I APPRECIATE THE EXTRAORDINARY EFFORT EACH OF YOU IS MAKING. YOUR MENTAL PROWESS AND CREATIVITY, AND, YES, YOUR HARD WORK, WILL MAKE OR BREAK THE PROGRAM. AND I WANT YOU TO KNOW, WHAT YOU ACCOMPLISH WILL BE PUT TO GOOD USE IN PROTECTING YOUR COUNTRY, THE FREE WORLD, AND PERHAPS ALL MANKIND AGAINST THE THREAT OF NUCLEAR HOLOCAUST. YOU ARE NOT WORKING TO BUILD A BARGAINING CHIP. IT WILL NOT BE TRADED AWAY.

YES, THERE ARE THOSE WHO COMPLAIN ABOUT THE COST. BENJAMIN FRANKLIN, HIMSELF A MAN OF SCIENCE AND POLITICS, ONCE OBSERVED, "THE EXPENSES REQUIRED TO PREVENT A WAR ARE MUCH LIGHTER THAN THOSE THAT WILL, IF NOT PREVENTED, BE ABSOLUTELY NECESSARY TO MAINTAIN IT."

WELL, MIRRORING THAT THOUGHT, I'D SAY THAT WHAT WE SPEND TO PROTECT OURSELVES FROM NUCLEAR MISSILES IS MUCH LIGHTER THAN THE COST, HUMAN AND OTHERWISE, IF EVEN ONE NUCLEAR MISSILE IS FIRED, EVEN IF BY MISTAKE, AND WE HAVE TO SUFFER THE CONSEQUENCES BECAUSE THERE IS NO WAY TO STOP IT. IN THE CASE OF S.D.I., AMERICA CANNOT AFFORD NOT TO DO EVERYTHING NECESSARY TO DEVELOP THIS MISSILE DEFENSE SYSTEM AND PUT IT INTO OPERATION.

THE SOVIET UNION, EVEN AS THEY CRITICIZE AND TRY TO CRIPPLE OUR S.D.I. RESEARCH EFFORT, HAS BEEN AGGRESSIVELY MOVING AHEAD ON ITS OWN ANTI-BALLISTIC MISSILE DEFENSE. THEY HAVE SPENT ROUGHLY \$200 BILLION IN THE LAST 10 YEARS -- AND HAVE CONCENTRATED THE ENERGY AND TALENT OF THEIR BRIGHTEST SCIENTIFIC MINDS.

MORE THAN 10,000 SKILLED SCIENTISTS AND ENGINEERS ARE WORKING ON MILITARY LASERS ALONE -- WITH THOUSANDS MORE DEVELOPING HIGH-TECH WEAPONS THAT USE PARTICLE BEAMS AND KINETIC ENERGY.

THE SOVIET GOVERNMENT WAGES ITS PROPAGANDA CAMPAIGN AGAINST OUR S.D.I. RESEARCH, EVEN WHILE THEY WORK OVERTIME TO DEVELOP THEIR OWN S.D.I.-LIKE SYSTEM. WE MUST NOT BE LULLED INTO REDUCING OUR COMMITMENT. THEIR MILITARY PROGRAM, WHICH INCLUDES EVERYTHING FROM KILLER-SATELLITES TO THE MODERNIZED ANTI-MISSILE SYSTEM THAT PROTECTS MOSCOW, DWARFS OUR S.D.I. PROGRAM ALREADY. THOSE WHO WOULD CUT OR ELIMINATE FUNDS FOR OUR EFFORT WOULD GRANT A CLEAR MONOPOLY IN THIS VITAL AREA TO OUR ADVERSARY, WHICH WOULD UNDERMINE THE PRESENT BASIS OF DETERRENCE.

BECAUSE THE QUESTION IS NOT, WILL STRATEGIC DEFENSES BE DEVELOPED? THE QUESTION IS RATHER, WILL THE SOVIET UNION BE THE ONLY COUNTRY TO POSSESS THEM? THE CHOICE IS OURS.

FURTHERMORE, THE STRATEGIC DEFENSE INITIATIVE IS NOT AIMED AT PROTECTING US AND OUR ALLIES AGAINST THE SOVIET UNION ALONE. FRANCIS BACON ONCE WROTE, "HE THAT WILL NOT APPLY NEW REMEDIES MUST EXPECT NEW EVILS; FOR TIME IS THE GREATEST INNOVATOR." WELL, IN THE DECADES AHEAD, WHO KNOWS WHAT GOVERNMENTS WILL OBTAIN BALLISTIC MISSILE TECHNOLOGY? WHO KNOWS HOW RATIONAL OR COMPETENT THOSE GOVERNMENTS WILL BE. I SPOKE BEFORE A MEETING OF THE AMERICAN COUNCIL OF LIFE INSURANCE LAST WEEK AND I CALLED S.D.I. AN INSURANCE POLICY. AND THAT'S WHAT IT IS.

S.D.I. IS NOT A WEAPON OF WAR, BUT AN INSURER, A PROTECTOR, OF THE PEACE. IT IS TOTALLY WITHIN THE LIMITS OF THE A.B.M. TREATY. LET ME ADD, THE UNITED STATES HAS OBSERVED THE A.B.M. TREATY, BUT WITH THE CONSTRUCTION OF THE HUGE PHASED-ARRAY RADAR AT KRASNOYARSK THE SOVIETS HAVE VIOLATED ONE OF THE TREATY'S KEY PROVISIONS. THIS IS BUT ANOTHER EXAMPLE OF WHY IT'S IMPORTANT NOT TO RELY ON WORDS ALONE. THE STRATEGIC DEFENSE INITIATIVE, YOU SEE, UNDERWRITES OUR EFFORTS TO ACHIEVE OFFENSIVE ARMS REDUCTION AGREEMENTS. WITH A DEFENSIVE SYSTEM IN PLACE, THE POSSIBILITY THAT ONE SIDE HAS CHEATED, AND HAS A FEW MISSILES IN HIDING, IS FAR LESS THREATENING.

S.D.I., THEN, MAKES FURTHER REDUCTIONS MORE LIKELY. A SYSTEM THAT MAKES BALLISTIC MISSILES LESS EFFECTIVE, MAKES THOSE MISSILES MORE NEGOTIABLE.

NOW THERE ARE THOSE WHO MAY BE PESSIMISTIC ABOUT THE CHANCES OF DEEP REDUCTIONS IN U.S. AND SOVIET NUCLEAR ARSENALS, BUT LET US NOT FORGET THAT IN 1981, WHEN I FIRST PROPOSED OUR ZERO OPTION, IT TOO WAS ALL BUT WRITTEN OFF BY MANY COMMENTATORS. IN THE TIME THAT HAS FOLLOWED, WE PERSEVERED AND STUCK TO OUR PRINCIPLES. WE HELD FIRM AGAINST THE ADVOCATES OF A SO-CALLED NUCLEAR FREEZE. WE FOLLOWED THROUGH ON OUR MODERNIZATION PROGRAM AND IN CLOSE COOPERATION WITH OUR ALLIES, INSTALLED THE CRUISE AND PERSHING'S IN EUROPE.

WHEN AT LONG LAST IT WAS REALIZED THAT WE IN THE ALLIANCE HAD THE COURAGE TO PROTECT OUR OWN LONG-RUN INTERESTS, PROGRESS TOWARD A MUTUALLY BENEFICIAL TREATY ENSUED.

AS YOU ARE ALL AWARE, GENERAL SECRETARY GORBACHEV WILL BE VISITING WASHINGTON BEGINNING DECEMBER 7TH. IF THE LAST-MINUTE DETAILS CAN BE WORKED OUT, WE HOPE TO SIGN AN HISTORIC TREATY THAT WILL ELIMINATE A WHOLE CLASS OF U.S. AND SOVIET NUCLEAR-ARMED INTERMEDIATE-RANGE MISSILES FROM THE FACE OF THE EARTH, THE FIRST MUTUALLY AGREED UPON REDUCTION IN OUR NUCLEAR ARSENALS EVER.

AND THIS COULD WELL BE JUST A BEGINNING. WE HOPE WE CAN SEE FORWARD MOVEMENT ON A NUMBER OF OTHER FRONTS. THE UNITED STATES, FOR EXAMPLE, HAS PROPOSED A 50-PERCENT REDUCTION IN U.S.-SOVIET OFFENSIVE STRATEGIC FORCES.

MUCH PROGRESS HAS BEEN MADE TOWARD A START AGREEMENT AND MORE IS POSSIBLE. BUT LET THERE BE NO DOUBT, GIVING UP THE STRATEGIC DEFENSE INITIATIVE AND THE PROTECTION IT WILL PROVIDE IS TOO HIGH A PRICE FOR ANY AGREEMENT.

NEITHER THE I.N.F. TREATY WE HOPE TO SIGN DURING THE UPCOMING SUMMIT, NOR ANY OTHER AGREEMENT THAT FOLLOWS, WILL BE BUILT ON TRUST. AGREEMENTS WITH THE SOVIET UNION MUST BE BASED ON RECIPROCITY, VERIFICATION, AND REALISM. AND WHILE WE WANT TO BOLSTER THE PEACE AND DO OUR PART TO IMPROVE RELATIONS, NO AGREEMENT SHOULD EVER BE SIGNED SIMPLY FOR THE SAKE OF SIGNING AN AGREEMENT, FOR THE SAKE OF ATMOSPHERICS.

IMPROVING THE GENERAL TONE OF RELATIONS BETWEEN OUR COUNTRIES, AS I'VE OUTLINED ON SEVERAL OCCASIONS, WILL REQUIRE MUCH MORE MOVEMENT FROM THE OTHER SIDE TOWARD THE SOLUTION OF REGIONAL CONFLICTS, A FAR GREATER RESPECT FOR HUMAN RIGHTS, AND PROGRESS ON A NUMBER OF BILATERAL ISSUES BETWEEN OUR COUNTRIES. AS I'VE EXPLAINED TO GENERAL SECRETARY GORBACHEV, OUR COUNTRIES DO NOT HAVE DIFFERENCES BECAUSE WE ARE WELL-ARMED, WE ARE WELL-ARMED BECAUSE WE HAVE DIFFERENCES.

EVEN WITH ALL THE TALK OF OPENNESS AND GLASNOST, MUCH CHANGE NEEDS TO TAKE PLACE BEFORE TRUST, LIKE THAT WE HAVE WITH DEMOCRATIC GOVERNMENTS, CAN COME INTO PLAY. THE SOVIET PEOPLES THEMSELVES -- EVEN THOUGH THERE HAS BEEN SOME CHANGE -- STILL TELL STORIES AND JOKE ABOUT THEIR PLIGHT.

I HEARD ONE ABOUT A FELLOW WHO WENT TO THE K.G.B. TO REPORT THAT HE LOST HIS PARROT. THE K.G.B. ASKED HIM WHY HE WAS BOTHERING THEM. WHY DIDN'T HE JUST REPORT IT TO THE LOCAL POLICE. HE ANSWERED, "I JUST WANT YOU TO KNOW, I DON'T AGREE WITH A THING THAT PARROT HAS TO SAY."

IN 4 MONTHS, WE WILL MARK THE 5TH ANNIVERSARY OF THE MARCH 23, 1983, SPEECH IN WHICH I CHALLENGED THE SCIENTIFIC COMMUNITY TO DEVELOP A SYSTEM THAT WOULD MAKE BALLISTIC MISSILES OBSOLETE. GENERAL GEORGE PATTON ONCE SAID, "NEVER TELL PEOPLE HOW TO DO THINGS. TELL THEM WHAT TO DO AND THEY WILL SURPRISE YOU WITH THEIR INGENUITY." THAT STATEMENT SHOWED A DEEP INSIGHT INTO THE AMERICAN CHARACTER, AND IT HAS BEEN PROVEN AGAIN IN OUR DRIVE TO ESTABLISH A STRATEGIC DEFENSE SYSTEM.

TODAY, I HAVE BEEN DEEPLY IMPRESSED WITH WHAT I'VE SEEN AND HEARD. THE PROGRESS MADE TOWARD ACHIEVING OUR GOALS GIVES US REASON FOR CONFIDENCE. THE CRITICS WHO CLAIMED IT COULDN'T BE DONE HAVE BEEN PROVEN WRONG AGAIN -- JUST HAS BEEN THE CASE WITH ALMOST EVERY TECHNOLOGICAL TRIUMPH IN THE PAST. THE SCIENTIFIC RESEARCH AND ENGINEERING WORK YOU ARE DOING, ALONG WITH THAT OF OTHERS LIKE YOU IN HUNDREDS OF LOCATIONS THROUGHOUT THIS GREAT LAND, IS A TRIBUTE TO THE GENIUS OF AMERICA. THIS IS TRULY A NATIONAL EFFORT -- BOTH GOVERNMENT AND PRIVATE SECTOR -- INVOLVING PRE-EMINENT INDIVIDUALS IN INDUSTRY, EDUCATION, AND THE SCIENTIFIC COMMUNITY.

- 19 -

NO PRESIDENT COULD BE PROUDER OR MORE
GRATEFUL THAN I AM FOR ALL YOU, AND YOUR
FELLOW COLLEAGUES AROUND THE COUNTRY,
ARE DOING. GOD BLESS YOU.

#

Dana,
This is a copy of
the fixes I passed to
Tom around lunchtime
today. He seemed to like
come but had others.
problems with others.
WHE
PRESIDENTIAL ADDRESS: SDI/INF
MARTIN-MARIETTA PLANT
DENVER, COLORADO
TUESDAY, NOVEMBER 24, 1987

(Rohrabacher/ARD)
November 21, 1987
5:00 p.m.

Proposed
NSC Fixe

Master
Thank you. And thank you Mr. Pownall and General
Abrahamson. It is an honor for me to be at Martin-Marietta with
all of you, men and women of science and engineering, who play
such a vital role in this age of technology. I will have to
admit I'm a bit awed by what I've seen and heard today.

Of course, not all my predecessors shared my sense of wonder
about such things. One, President Rutherford B. Hayes played
host to a notable science and technology event back in ^{the 1870s} 1876 -- a
demonstration ~~in the White House~~ of the newly invented telephone. ✓
President Hayes' reaction: "That's an amazing invention," he
said, "but who would ever want to use them?" (PAUSE) When I
heard him say that, I thought he might be mistaken.

Seriously though, I was born in a small town in the farm
country of Illinois. Progress in those days meant indoor
plumbing, electric lights, a telephone, and ^{later} perhaps a radio R.R.
crystal set. Just in my lifetime, we've gone from a time when
many, if not most, people traveled by horse power -- and I mean
the kind that eats hay -- to an era of supersonic passenger
service. And just possibly before I leave the scene, we will
have developed a craft that will take off from runways as planes
do today, but once at high altitude, this craft will rocket
itself into space and zip to its destination at ¹⁸ ~~four~~ or ²⁰ ~~five~~. ✓

times the speed of sound -- from New York to Tokyo in 90 minutes.

(PAUSE) This could bring a whole new meaning for "sushi to go."

The America I was born into was acclaimed for its liberty and opportunity, yet that opportunity for which we were so proud has been expanded today beyond anything the Americans of my youth could possibly have imagined. Affordable world-wide communications and transportation have not just extended, but eliminated horizons. Computer capability, which a short time ago was available only to large corporations, is now being put to use by small business and individual entrepreneurs.

We are in an age when the common man can do and experience what in past times was enjoyed only by ~~kings~~, royalty, ^{aristocracy} and the elite. B.B. Jefferson, Washington, and Madison laid the foundation for liberty and equality; Edison, Einstein, Goddard, and others like them, like many of you, built on that foundation. It has been technology and freedom, together, that have pushed America ever forward and made her the land of abundance and progress we love so dearly.

~~British statesman~~ Arthur Balfour once noted, "Science is the greatest instrument of social change... the most vital of all revolutions which marked the development of modern civilizations." ✓

Science and technological-based revolutions in health care, food production, communications, transportation, manufacturing, and other endeavors have changed how we live and the quality of our lives. Before joining you, I was given a classified update on some of the key elements of the program you're working on.

It's clear that the project is bounding forward and I couldn't be more pleased. After what I have seen today, I believe that mankind is again on the edge of a revolution that will change the basic assumptions upon which we base our decisions and reshape the world in which we live.

Until now, mankind's search for security often focused on expanding the ability to lash out, to kill, to destroy. Technological advances throughout the ages increased man's destructive power, and those nations that did not keep pace soon felt the sting of defeat and the pain of subjugation. But humanity, in almost every case found a defense for every offense, and that is exactly what we are seeking: a defense against mankind's most deadly weapons: ballistic missiles.

You are laboring to develop a defensive system that will change history. Once you've completed your work, the world will never be the same. I suggest it will be a better and a safer world. And what better legacy can this generation leave than a safer world?

Our Strategic Defense Initiative offers mankind security through protection rather than ^{the threat of} retaliation. It is a scientific advance that will be judged a success based not on how many lives it is capable of ^{threatening} ~~taking~~ -- which is none -- but on how many it is able to protect. It is a moral as well as scientific endeavor worth every minute and hour you are dedicating to it. Our goal is to strengthen deterrence by moving as soon as we are ready to increasing reliance on defenses to keep the peace.

Proper
usage

→

→

No

I realize that being a government project, with all the politics that goes with that reality, your work can be frustrating. Wernher von Braun once said, "We can lick gravity, but sometimes the paperwork is overwhelming."

I appreciate the extraordinary effort each of you is making. Your mental prowess and creativity, and, yes, your hard work, will make or break the program. And I want you to know, what you accomplish will be put to good use in protecting your country, the free world, and perhaps all mankind against the threat of nuclear holocaust. You are not working to build a bargaining chip. It will not be traded away.

Yes, there are those who complain about the cost. Benjamin Franklin, himself a man of science and politics, once observed, "The expenses required to prevent a war are much lighter than those that will, if not prevented, be absolutely necessary to maintain it."

Well, mirroring that thought, I'd say that what we spend to protect ourselves from nuclear missiles is much lighter than the cost, human and otherwise, if even one nuclear missile is fired, even if by mistake, and we have to suffer the consequences because there is no way to stop it. In the case of S.D.I., America cannot afford not to do everything necessary to develop this missile defense system and put it into operation.

The Soviet Union, even as they criticize and try to cripple our S.D.I. research effort, has been aggressively moving ahead on its own anti-ballistic missile defense. They ^{have} ~~are~~ ^{t. roughly 200} ~~spending many~~ billions of dollars ^{start} ~~20 times more than we have~~ in the last

Accuracy

Yes

N^o Accuracy
10 years -- and have concentrated the energy and talent of their brightest scientific minds. More than 10,000 skilled ~~Soviet~~ scientists and engineers are working on military lasers alone -- with

thousands more developing high-tech weapons that use particle beams and kinetic energy. ~~In contrast, we have spent less than 10 billion dollars since the SDI program began in 1983.~~

The Soviet government wages its propaganda campaign against our S.D.I. research, even while they work overtime to develop their own S.D.I.-like system. We must not be lulled into reducing our commitment. Their military program, which includes everything from killer-satellites to the modernized anti-missile system that protects Moscow, dwarfs our S.D.I. program already.

Those who would cut or eliminate funds for our effort would grant a clear monopoly in this vital area to our adversary, ~~which would undermine the present basis of deterrence~~ Because the question is not, will strategic defenses be developed? The question is rather, will the Soviet Union be the only country to possess them? The choice is ours.

Furthermore, the Strategic Defense Initiative is not aimed at protecting us and our allies against the Soviet Union alone. Francis Bacon once wrote, "He that will not apply new remedies must expect new evils; for time is the greatest innovator." Well, in the decades ahead, who knows what governments will obtain ballistic missile technology? Who knows how rational or competent those governments will be. I spoke before a meeting of the American Council of Life Insurance last week and I called S.D.I. an insurance policy. And that's what it is.

S.D.I. is not a weapon of war, but an insurer, a protector, of the peace. It is totally within the limits of the A.B.M.

Policy

treaty. Let me add, the United States has observed the A.B.M. treaty, but with the construction of the huge phased-array radar at Krasnoyarsk the Soviets have violated one of the treaty's ~~key~~ ^{key} provisions. This is but another example of why it's important not to rely on words alone. The Strategic Defense Initiative, helped bring the Soviets back to the negotiating table and, you see, ^{underwrites} our efforts to achieve offensive arms reduction agreements. With a defensive system in place, the possibility that one side has cheated, and has a few missiles in hiding, is far less threatening. S.D.I., then, makes further reductions more likely. A system that makes ballistic missiles less effective, makes those missiles more negotiable.

Now there are those who may be pessimistic about the chances of deep reductions in ^{U.S. and Soviet} ~~the~~ nuclear arsenals, but let us not forget that in 1981, when I first proposed our zero option, ~~it~~ ^{it} too was all but written off by many commentators. In the time that has followed, we persevered and stuck to our principles. We held firm against the advocates of a so-called nuclear freeze. We followed through on our modernization program and in close cooperation with our allies, installed the Cruise and Pershings in Europe. When at long last it was realized that we in the alliance had the courage to protect our own long-run interests, progress toward a mutually beneficial treaty ensued.

As you are all aware, General Secretary Gorbachev will be visiting Washington beginning December 7th. If the last-minute details can be worked out, we hope to sign an historic treaty that will eliminate a whole class of U.S. and Soviet nuclear-armed intermediate-range missiles from the face of the

Type

Policy

Yes

Yes
Policy
(avoid including
UK & French)
Accuracy

No

NO

Earth, the first mutually agreed upon reduction in our nuclear arsenals ever.

~~But the Soviets have to drop their tactic of holding strategic offensive reductions hostage to their efforts to cripple SDI.~~

Small case

And this could well be just a beginning. We hope we can see forward movement on a number of other fronts. The United States, for example, has proposed a 50-percent reduction in U.S.-Soviet ~~Offensive Strategic Forces~~. Much progress has been made toward a START agreement and more is possible. But let there be no doubt,

giving up ~~the Strategic Defense Initiative~~ and the protection ^{SDI} ~~it~~ will provide is too high a price for any agreement. ^{We therefore have made clear to the Soviets that we won't accept restrictions on defenses that go beyond those actually agreed in the ABT treaty}

Neither the I.N.F. treaty we hope to sign during the upcoming summit, nor any other agreement that follows, will be

NO

built on trust. Agreements with the Soviet Union must be based on reciprocity, ^{effective} verification, and realism. And while we want to bolster the peace and ^{do our part to} improve relations, no agreement should ever

NO Accuracy Policy

Policy YES

be signed simply for the sake of signing an agreement, for the sake of atmospherics. Improving the general tone of relations between our countries, as I've outlined on several occasions,

Policy YES

will require much more ^{constructive Soviet policy from the other side} ~~movement~~ toward the solution of regional conflicts, a far greater respect for human rights ^{NO} ~~within the~~

R.R.

~~Soviet Union~~ and progress on a number of bilateral issues between our countries. As I've explained to General Secretary Gorbachev, our countries do not have differences because we are well-armed, we are well-armed because we have differences.

Even with all the talk of openness and Glasnost, much change needs to take place before trust, like that we have with democratic governments, can come into play. The Soviet peoples themselves -- even though there has been some change -- still

tell stories and joke about their plight. I heard one about a fellow who went to the K.G.B. to report that he lost his parrot. The K.G.B. asked him why he was bothering them. Why didn't he just report it to the local police. He answered, "I just want you to know, I don't agree with a thing that parrot has to say."

In 4 months, we will mark the 5th anniversary of the March 23, 1983, speech in which I challenged the scientific community to develop a system that would make ballistic missiles obsolete. General George Patton once said, "Never tell people how to do things, ^{it} tell them what to do, and they will surprise you with their ingenuity." That statement showed a deep insight into the American character, and it has been proven again in our drive to ~~develop~~ ^{establish} a strategic defense system. ✓

Today, I have been deeply impressed with what I've seen and heard. The progress made toward achieving our goals ^{gives us reason for confidence} ~~has been~~ ~~even faster than we expected.~~ ~~nothing less than astounding.~~ The critics who claimed it couldn't be done have been proven wrong again -- just has been the case with almost every technological triumph in the past. The scientific research and engineering work you are doing, along with that of others like you in hundreds of locations throughout this great land, is a tribute to the genius of America. This is truly a national effort -- both government and private sector -- involving pre-eminent individuals in industry, education, and the scientific community. No President could be prouder or more grateful than I am for all you, and your fellow colleagues around the country, are doing. God bless you.

Accuracy ^{yes}
("Develop" is
a buzzword)

Policy ^{yes}
(Tone down)

Note: 11-23-87
All highlighted (yellow)
points, as well as overall
speech, have been seen
and signed off by
N.S.S. - Steve
Steiner specifically but also
Bill Courtney.

Save

(Rohrabacher/ARD)
November 21, 1987
5:00 p.m.

V.D.

PRESIDENTIAL ADDRESS: SDI/INF
MARTIN-MARIETTA PLANT
DENVER, COLORADO
TUESDAY, NOVEMBER 24, 1987

ob Schmidt
and Advance
Xwell
EO. Martin M.

Thank you. And thank you Mr. Pownall and General
Abrahamson. It is an honor for me to be at Martin-Marietta with
all of you, men and women of science and engineering, who play
such a vital role in this age of technology. I will have to
admit I'm a bit awed by what I've seen and heard today.

M/M Public
Affairs
303947-5264

Arvin Kraus
Library Congress
American History
287-1405
This demonstration
may or may not have
been in W.H.
lifetime from
1877-1879.

Of course, not all my predecessors shared my sense of wonder
about such things. One, President Rutherford B. Hayes played
host to a notable science and technology event back in 1876 - a
demonstration in the White House of the newly invented telephone.
The President has used this several times previous.
President Hayes' reaction: "That's an amazing invention," he
said, "but who would ever want to use them?" (PAUSE) When I
heard him say that, I thought he might be mistaken.

Wiana Seale
the President's House -
as 1st phone
being installed in
M. May 10, 1879.

Seriously though, I was born in a small town in the farm
country of Illinois. Progress in those days meant indoor
plumbing, electric lights, a telephone, and perhaps a radio
crystal set. Just in my lifetime, we've gone from a time when
many, if not most, people traveled by horse power -- and I mean
the kind that eats hay -- to an era of supersonic passenger
service. And just possibly before I leave the scene, we will
have developed a craft that will take off from runways as planes
do today, but once at high altitude, this craft will rocket
itself into space and zip to its destination at four or five

See File

am Bishop
D.S.T.P.
7710
Mach 25
approx.
roles

18 or 20

Orbital - higher speed but takes
longer to reach orbit than (in the area of
15K to 25K mph)
decelerates.

Suborbital - zip along at 150,000 feet
destination on earth in 2 1/2 hrs or less.

times the speed of sound -- from New York to Tokyo in 90 minutes.]

(PAUSE) This could bring a whole new meaning for "sushi to go."

The America I was born into was acclaimed for its liberty and opportunity, yet that opportunity for which we were so proud has been expanded today beyond anything the Americans of my youth could possibly have imagined. Affordable world-wide communications and transportation have not just extended, but eliminated horizons. Computer capability, which a short time ago was available only to large corporations, is now being put to use by small business and individual entrepreneurs.

We are in an age when the common man can do and experience what in past times was enjoyed only by kings, royalty, and the elite. Jefferson, Washington, and Madison laid the foundation for liberty and equality; Edison, Einstein, Goddard, and others like them, like many of you, built on that foundation. It has been technology and freedom, together, that have pushed America ever forward and made her the land of abundance and progress we love so dearly.

British statesman Arthur Balfour once noted, "Science is the greatest instrument of social change... the most vital of all revolutions which marked the development of modern civilizations."

Science and technological-based revolutions in health care, food production, communications, transportation, manufacturing, and other endeavors have changed how we live and the quality of our lives. Before joining you, I was given a classified update on some of the key elements of the program you're working on.

OK.
Dr. James Miodl.
(518) 296-6000

Provost.
Rensselaer
Polytechnical
Institute
N.Y. State

This Quote
from Dana's
file. We were
not able to
sign it to the
old British
statesman.
However I feel
strongly it is
attributable to J.D.

See file
Vent Concept Memo
Jim Hooley
Rick A'Hearn

It's clear that the project is bounding forward and I couldn't be more pleased. After what I have seen today, I believe that mankind is again on the edge of a revolution that will change the basic assumptions upon which we base our decisions and reshape the world in which we live.

Until now, mankind's search for security often focused on expanding the ability to lash out, to kill, to destroy. Technological advances throughout the ages increased man's destructive power, and those nations that did not keep pace soon felt the sting of defeat and the pain of subjugation. But humanity, in almost every case found a defense for every offense, and that is exactly what we are seeking: a defense against mankind's most deadly weapons: ballistic missiles.

You are laboring to develop a defensive system that will change history. Once you've completed your work, the world will never be the same. I suggest it will be a better and a safer world. And what better legacy can this generation leave than a safer world?

Our Strategic Defense Initiative offers mankind security through protection rather than retaliation. It is a scientific advance that will be judged a success based not on how many lives it is capable of taking -- which is none -- but on how many it is able to protect. It is a moral as well as scientific endeavor worth every minute and hour you are dedicating to it. Our goal is to strengthen deterrence by moving as soon as we are ready to increasing reliance on defenses to keep the peace.

Fred Ordway R.O.D. Space Expert.
586-4992

U.S.C.
Steve Steiner
x5697

Steve Steiner
U.S.C. - x5697

U.S.C.
Steve Steiner
x5697

I realize that being a government project, with all the politics that goes with that reality, your work can be frustrating. Wernher von Braun once said, "We can lick gravity, but sometimes the paperwork is overwhelming."

I appreciate the extraordinary effort each of you is making. Your mental prowess and creativity, and, yes, your hard work, will make or break the program. And I want you to know, ~~what you accomplish will be put to good use in protecting your country, the free world, and perhaps all mankind against the threat of nuclear holocaust.~~ You are not working to build a bargaining chip. It will not be traded away.

Yes, there are those who complain about the cost. Benjamin Franklin, himself a man of science and politics, once observed, "The expenses required to prevent a war are much lighter than those that will, if not prevented, be absolutely necessary to maintain it."

Well, mirroring that thought, I'd say that what we spend to protect ourselves from nuclear missiles is much lighter than the cost, human and otherwise, if even one nuclear missile is fired, even if by mistake, and we have to suffer the consequences because there is no way to stop it. In the case of S.D.I., America cannot afford not to do everything necessary to develop this missile defense system and put it into operation.

The Soviet Union, even as they criticize and try to cripple our S.D.I. research effort, has been aggressively moving ahead on its own anti-ballistic missile defense. They are spending many billions of dollars -- 20 times more than we have in the last

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Sen Franklin

Wilson, Schoen
Maxfield, Freeman, Tuck
1982

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Steve Steiner 25697

10 years -- and have concentrated the energy and talent of their brightest scientific minds. More than 10,000 skilled scientists and engineers are working on military lasers alone -- with thousands more developing high-tech weapons that use particle beams and kinetic energy.

~~The Soviet government wages its propaganda campaign against our S.D.I. research, even while they work overtime to develop their~~ We must not be lulled into reducing our commitment. Their military program, which includes everything from killer-satellites to the modernized anti-missile system that protects Moscow, dwarfs our S.D.I. program already. Those who would cut or eliminate funds for our effort would grant a clear monopoly in this vital area to our adversary. [Because the question is not, will strategic defenses be developed? The question is rather, will the Soviet Union be the only country to possess them? The choice is ours.]

~~Furthermore, the Strategic Defense Initiative is not aimed at protecting us and our allies against the Soviet Union alone.~~

~~Bacon~~ Bacon once wrote, "He that will not apply new remedies must expect new evils; for time is the greatest innovator."

Well, in the decades ahead, who knows what governments will obtain ballistic missile technology? Who knows how rational or competent those governments will be. I spoke before a meeting of the American Council of Life Insurance last week and I called S.D.I. an insurance policy. And that's what it is.

S.D.I. is not a weapon of war, but an insurer, a protector, of the peace. It is totally within the limits of the A.B.M.

U.S.C.
Steve Steiner

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Steve Steiner
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2ST.P. comments
11-20-87
See file

Quote OK.
similar Quotations
John Bartlett
p. 180 to 24
"Of Innovations"

Houday 11-16-87

Insurance
by 16, 1987
in file.

U.S.C.
Steve Steiner
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treaty. [Let me add, the United States has observed the A.B.M. treaty, but with the construction of the huge phased-array radar at Krasnoyarsk the Soviets have violated one of the treaty's lay provisions.] This is but another example of why it's important not to rely on words alone. The Strategic Defense Initiative, you see, underwrites our efforts to achieve offensive arms reduction agreements. With a defensive system in place, the possibility that one side has cheated, and has a few missiles in hiding, is far less threatening. S.D.I., then, makes further reductions more likely. A system that makes ballistic missiles less effective, makes those missiles more negotiable.

Now there are those who may be pessimistic about the chances of deep reductions in the nuclear arsenals, but let us not forget that in 1981, when I first proposed our zero option, it too was all but written off by many commentators. In the time that has followed, we persevered and stuck to our principles. We held firm against the advocates of a so-called nuclear freeze. We followed through on our modernization program and in close cooperation with our allies, installed the Cruise and Pershings in Europe. When at long last it was realized that we in the alliance had the courage to protect our own long-run interests, progress toward a mutually beneficial treaty ensued.

As you are all aware, General Secretary Gorbachev will be visiting Washington beginning December 7th. If the ~~last minute~~ details ~~can be~~ worked out, we hope to sign an historic treaty that will eliminate a whole class of U.S. and Soviet nuclear-armed intermediate-range missiles from the face of the

See file
US-6 commands
of 11/20/87
4 P.5

Steve Steiner

U.S.C. concurs
Steve Steiner

No
Dana

Steve Steiner
589

Earth, the first mutually agreed upon reduction in our nuclear arsenals ever.

And this could well be just a beginning. We hope we can see forward movement on a number of other fronts. ~~The United States, for example, has proposed a 50 percent reduction in U.S. Soviet offensive strategic forces.~~ Much progress has been made toward a

~~START agreement and more is possible.~~ But let there be no doubt, ~~giving up the Strategic Defense Initiative and the protection it will provide is too high a price for any agreement.~~ *

* Insert from
USC expected
then not taken.
USC does
UNSC however
with this page,

Neither the I.N.F. treaty we hope to sign during the upcoming summit, nor any other agreement that follows, will be built on trust. Agreements with the Soviet Union must be based on reciprocity, verification, and realism. And while we want to bolster the peace and improve relations, no agreement should ever be signed simply for the sake of signing an agreement, for the sake of atmospherics. Improving the general tone of relations between our countries, as I've outlined on several occasions, will require much more movement toward the solution of regional conflicts, a far greater respect for human rights within the Soviet Union, and progress on a number of bilateral issues between our countries. As I've explained to General Secretary Gorbachev, our countries do not have differences because we are well-armed, we are well-armed because we have differences.

See file
address before
1st U.N.
General Assembly
Sept 22, 1986

Even with all the talk of openness and Glasnost, much change needs to take place before trust, like that we have with democratic governments, can come into play. The Soviet peoples themselves -- even though there has been some change -- still

John

tell stories and joke about their plight. I heard one about a fellow who went to the K.G.B. to report that he lost his parrot. The K.G.B. asked him why he was bothering them. Why didn't he just report it to the local police. He answered, "I just want you to know, I don't agree with a thing that parrot has to say."

In 4 months, we will mark the 5th anniversary of the March 23, 1983, speech in which I challenged the scientific community to develop a system that would make ballistic missiles obsolete. General George Patton once said, "Never tell people how to do things; ^{to people} tell them what to do, and they will surprise you with their ingenuity." That statement showed a deep insight into the American character, and it has been proven again in our drive to develop a strategic defense system.

Today, I have been deeply impressed with what I've seen and heard. The progress made toward achieving our goals has been nothing less than astounding. The critics who claimed it couldn't be done have been proven wrong again -- just has been the case with almost every technological triumph in the past. The scientific research and engineering work you are doing, along with that of others like you in hundreds of locations throughout this great land, is a tribute to the genius of America. ~~This is truly a national effort -- both government and private sector -- involving prominent individuals in industry, education, and the scientific community.~~ No President could be prouder or more grateful than I am for all you, and your fellow colleagues around the country, are doing. God bless you.

* See file copy
Speech to Nation on
Defense of National
Security March 23, 83
Quote
Familiar Quotes
John Bartlett
p. 792 #2

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(ROHRBACHER)

11/23/87 - 4 P.M.

ADDRESS ON SDI/INF
MARTIN-MARIETTA PLANT

DENVER, COLORADO
TUESDAY, NOVEMBER 24, 1987

THANK YOU. AND THANK YOU MR. (POE-NAL)
AND GENERAL ABRAHAMSON. IT IS AN HONOR FOR
ME TO BE AT MARTIN-MARIETTA WITH ALL OF YOU,
MEN AND WOMEN OF SCIENCE AND ENGINEERING,
WHO PLAY SUCH A VITAL ROLE IN THIS AGE OF
TECHNOLOGY. I WILL HAVE TO ADMIT I'M A BIT
AWED BY WHAT I'VE SEEN AND HEARD TODAY.

OF COURSE, NOT ALL MY PREDECESSORS
SHARED MY SENSE OF WONDER ABOUT SUCH THINGS.
ONE, PRESIDENT RUTHERFORD B. HAYES PLAYED
HOST TO A NOTABLE SCIENCE AND TECHNOLOGY
EVENT BACK IN THE 1870's -- A DEMONSTRATION
OF THE NEWLY INVENTED TELEPHONE.

- 2 -

PRESIDENT HAYES' REACTION: "THAT'S AN AMAZING INVENTION," HE SAID, "BUT WHO WOULD EVER WANT TO USE THEM?" [PAUSE] WHEN I HEARD HIM SAY THAT, I THOUGHT HE MIGHT BE MISTAKEN.

SERIOUSLY THOUGH, I WAS BORN IN A SMALL TOWN IN THE FARM COUNTRY OF ILLINOIS. PROGRESS IN THOSE DAYS MEANT INDOOR PLUMBING, ELECTRIC LIGHTS, A TELEPHONE, AND LATER, PERHAPS, A RADIO CRYSTAL SET. JUST IN MY LIFETIME, WE'VE GONE FROM A TIME WHEN MANY, IF NOT MOST, PEOPLE TRAVELED BY HORSE POWER -- AND I MEAN THE KIND THAT EATS HAY -- TO AN ERA OF SUPERSONIC PASSENGER SERVICE.

- 3 -

AND JUST POSSIBLY BEFORE I LEAVE THE SCENE,
WE WILL HAVE DEVELOPED A CRAFT THAT WILL
TAKE OFF FROM RUNWAYS AS PLANES DO TODAY,
BUT ONCE AT HIGH ALTITUDE, THIS CRAFT WILL
ROCKET ITSELF INTO SPACE AND ZIP TO ITS
DESTINATION AT 18 OR 20 TIMES THE SPEED OF
SOUND -- FROM NEW YORK TO TOKYO IN
90 MINUTES. [PAUSE] THIS COULD BRING A
WHOLE NEW MEANING FOR "SUSHI TO GO."

THE AMERICA I WAS BORN INTO WAS
ACCLAIMED FOR ITS LIBERTY AND OPPORTUNITY,
YET THAT OPPORTUNITY FOR WHICH WE WERE SO
PROUD HAS BEEN EXPANDED TODAY BEYOND
ANYTHING THE AMERICANS OF MY YOUTH COULD
POSSIBLY HAVE IMAGINED. AFFORDABLE
WORLD-WIDE COMMUNICATIONS AND TRANSPORTATION
HAVE NOT JUST EXTENDED, BUT ELIMINATED
HORIZONS.

COMPUTER CAPABILITY, WHICH A SHORT TIME AGO WAS AVAILABLE ONLY TO LARGE CORPORATIONS, IS NOW BEING PUT TO USE BY SMALL BUSINESS AND INDIVIDUAL ENTREPRENEURS.

WE ARE IN AN AGE WHEN THE COMMON MAN CAN DO AND EXPERIENCE WHAT IN PAST TIMES WAS ENJOYED ONLY BY ROYALTY, ARISTOCRACY, AND THE ELITE. JEFFERSON, WASHINGTON, AND MADISON LAID THE FOUNDATION FOR LIBERTY AND EQUALITY; EDISON, EINSTEIN, GODDARD, AND OTHERS LIKE THEM, LIKE MANY OF YOU, BUILT ON THAT FOUNDATION. IT HAS BEEN TECHNOLOGY AND FREEDOM, TOGETHER, THAT HAVE PUSHED AMERICA EVER FORWARD AND MADE HER THE LAND OF ABUNDANCE AND PROGRESS WE LOVE SO DEARLY.

ARTHUR BALFOUR ONCE NOTED, "SCIENCE IS THE GREATEST INSTRUMENT OF SOCIAL CHANGE... THE MOST VITAL OF ALL REVOLUTIONS WHICH MARKED THE DEVELOPMENT OF MODERN CIVILIZATIONS."

SCIENCE AND TECHNOLOGICAL-BASED REVOLUTIONS IN HEALTH CARE, FOOD PRODUCTION, COMMUNICATIONS, TRANSPORTATION, MANUFACTURING, AND OTHER ENDEAVORS HAVE CHANGED HOW WE LIVE AND THE QUALITY OF OUR LIVES. BEFORE JOINING YOU, I WAS GIVEN A CLASSIFIED UPDATE ON SOME OF THE KEY ELEMENTS OF THE PROGRAM YOU'RE WORKING ON. IT'S CLEAR THAT THE PROJECT IS BOUNDING FORWARD AND I COULDN'T BE MORE PLEASED. AFTER WHAT I HAVE SEEN TODAY, I BELIEVE THAT MANKIND IS AGAIN ON THE EDGE OF A REVOLUTION THAT WILL CHANGE THE BASIC ASSUMPTIONS UPON WHICH WE BASE OUR DECISIONS AND RESHAPE THE WORLD IN WHICH WE LIVE.

UNTIL NOW, MANKIND'S SEARCH FOR SECURITY OFTEN FOCUSED ON EXPANDING THE ABILITY TO LASH OUT, TO KILL, TO DESTROY. TECHNOLOGICAL ADVANCES THROUGHOUT THE AGES INCREASED MAN'S DESTRUCTIVE POWER, AND THOSE NATIONS THAT DID NOT KEEP PACE SOON FELT THE STING OF DEFEAT AND THE PAIN OF SUBJUGATION. BUT HUMANITY, IN ALMOST EVERY CASE FOUND A DEFENSE FOR EVERY OFFENSE, AND THAT IS EXACTLY WHAT WE ARE SEEKING: A DEFENSE AGAINST MANKIND'S MOST DEADLY WEAPONS: BALLISTIC MISSILES.

YOU ARE LABORING TO DEVELOP A DEFENSIVE SYSTEM THAT WILL CHANGE HISTORY. ONCE YOU'VE COMPLETED YOUR WORK, THE WORLD WILL NEVER BE THE SAME. I SUGGEST IT WILL BE A BETTER AND A SAFER WORLD. AND WHAT BETTER LEGACY CAN THIS GENERATION LEAVE THAN A SAFER WORLD?

OUR STRATEGIC DEFENSE INITIATIVE OFFERS MANKIND SECURITY THROUGH PROTECTION RATHER THAN RETALIATION. IT IS A SCIENTIFIC ADVANCE THAT WILL BE JUDGED A SUCCESS BASED NOT ON HOW MANY LIVES IT IS CAPABLE OF TAKING -- WHICH IS NONE -- BUT ON HOW MANY IT IS ABLE TO PROTECT. IT IS A MORAL AS WELL AS SCIENTIFIC ENDEAVOR WORTH EVERY MINUTE AND HOUR YOU ARE DEDICATING TO IT. OUR GOAL IS TO STRENGTHEN DETERRENCE BY MOVING AS SOON AS WE ARE READY TO INCREASING RELIANCE ON DEFENSES TO KEEP THE PEACE.

I REALIZE THAT BEING A GOVERNMENT PROJECT, WITH ALL THE POLITICS THAT GOES WITH THAT REALITY, YOUR WORK CAN BE FRUSTRATING. WERNHER VON BRAUN ONCE SAID, "WE CAN LICK GRAVITY, BUT SOMETIMES THE PAPERWORK IS OVERWHELMING."

I APPRECIATE THE EXTRAORDINARY EFFORT EACH OF YOU IS MAKING. YOUR MENTAL PROWESS AND CREATIVITY, AND, YES, YOUR HARD WORK, WILL MAKE OR BREAK THE PROGRAM. AND I WANT YOU TO KNOW, WHAT YOU ACCOMPLISH WILL BE PUT TO GOOD USE IN PROTECTING YOUR COUNTRY, THE FREE WORLD, AND PERHAPS ALL MANKIND AGAINST THE THREAT OF NUCLEAR HOLOCAUST. YOU ARE NOT WORKING TO BUILD A BARGAINING CHIP. IT WILL NOT BE TRADED AWAY.

YES, THERE ARE THOSE WHO COMPLAIN ABOUT THE COST. BENJAMIN FRANKLIN, HIMSELF A MAN OF SCIENCE AND POLITICS, ONCE OBSERVED, "THE EXPENSES REQUIRED TO PREVENT A WAR ARE MUCH LIGHTER THAN THOSE THAT WILL, IF NOT PREVENTED, BE ABSOLUTELY NECESSARY TO MAINTAIN IT."

WELL, MIRRORING THAT THOUGHT, I'D SAY THAT WHAT WE SPEND TO PROTECT OURSELVES FROM NUCLEAR MISSILES IS MUCH LIGHTER THAN THE COST, HUMAN AND OTHERWISE, IF EVEN ONE NUCLEAR MISSILE IS FIRED, EVEN IF BY MISTAKE, AND WE HAVE TO SUFFER THE CONSEQUENCES BECAUSE THERE IS NO WAY TO STOP IT. IN THE CASE OF S.D.I., AMERICA CANNOT AFFORD NOT TO DO EVERYTHING NECESSARY TO DEVELOP THIS MISSILE DEFENSE SYSTEM AND PUT IT INTO OPERATION.

THE SOVIET UNION, EVEN AS THEY CRITICIZE AND TRY TO CRIPPLE OUR S.D.I. RESEARCH EFFORT, HAS BEEN AGGRESSIVELY MOVING AHEAD ON ITS OWN ANTI-BALLISTIC MISSILE DEFENSE. THEY HAVE SPENT ROUGHLY \$200 BILLION IN THE LAST 10 YEARS -- AND HAVE CONCENTRATED THE ENERGY AND TALENT OF THEIR BRIGHTEST SCIENTIFIC MINDS.

MORE THAN 10,000 SKILLED SCIENTISTS AND ENGINEERS ARE WORKING ON MILITARY LASERS ALONE -- WITH THOUSANDS MORE DEVELOPING HIGH-TECH WEAPONS THAT USE PARTICLE BEAMS AND KINETIC ENERGY.

THE SOVIET GOVERNMENT WAGES ITS PROPAGANDA CAMPAIGN AGAINST OUR S.D.I. RESEARCH, EVEN WHILE THEY WORK OVERTIME TO DEVELOP THEIR OWN S.D.I.-LIKE SYSTEM. WE MUST NOT BE LULLED INTO REDUCING OUR COMMITMENT. THEIR MILITARY PROGRAM, WHICH INCLUDES EVERYTHING FROM KILLER-SATELLITES TO THE MODERNIZED ANTI-MISSILE SYSTEM THAT PROTECTS MOSCOW, DWARFS OUR S.D.I. PROGRAM ALREADY. THOSE WHO WOULD CUT OR ELIMINATE FUNDS FOR OUR EFFORT WOULD GRANT A CLEAR MONOPOLY IN THIS VITAL AREA TO OUR ADVERSARY, WHICH WOULD UNDERMINE THE PRESENT BASIS OF DETERRENCE.

BECAUSE THE QUESTION IS NOT, WILL STRATEGIC DEFENSES BE DEVELOPED? THE QUESTION IS RATHER, WILL THE SOVIET UNION BE THE ONLY COUNTRY TO POSSESS THEM? THE CHOICE IS OURS.

FURTHERMORE, THE STRATEGIC DEFENSE INITIATIVE IS NOT AIMED AT PROTECTING US AND OUR ALLIES AGAINST THE SOVIET UNION ALONE. ^{S.D.I.} FRANCIS BACON ONCE WROTE, "HE THAT WILL NOT APPLY NEW REMEDIES MUST EXPECT NEW EVILS; FOR TIME IS THE GREATEST INNOVATOR." WELL, IN THE DECADES AHEAD, WHO KNOWS WHAT GOVERNMENTS WILL OBTAIN BALLISTIC MISSILE TECHNOLOGY? WHO KNOWS HOW RATIONAL OR COMPETENT THOSE GOVERNMENTS WILL BE. I SPOKE BEFORE A MEETING OF THE AMERICAN COUNCIL OF LIFE INSURANCE LAST WEEK AND I CALLED S.D.I. AN INSURANCE POLICY. AND THAT'S WHAT IT IS.

S.D.I. IS NOT A WEAPON OF WAR, BUT AN INSURER, A PROTECTOR, OF THE PEACE. IT IS TOTALLY WITHIN THE LIMITS OF THE A.B.M. TREATY. LET ME ADD, THE UNITED STATES HAS OBSERVED THE A.B.M. TREATY, BUT WITH THE CONSTRUCTION OF THE HUGE PHASED-ARRAY RADAR AT KRASNOYARSK THE SOVIETS HAVE VIOLATED ONE OF THE TREATY'S KEY PROVISIONS. THIS IS BUT ANOTHER EXAMPLE OF WHY IT'S IMPORTANT NOT TO RELY ON WORDS ALONE. THE STRATEGIC DEFENSE INITIATIVE, YOU SEE, UNDERWRITES OUR EFFORTS TO ACHIEVE OFFENSIVE ARMS REDUCTION AGREEMENTS. WITH A DEFENSIVE SYSTEM IN PLACE, THE POSSIBILITY THAT ONE SIDE HAS CHEATED, AND HAS A FEW MISSILES IN HIDING, IS FAR LESS THREATENING.

S.D.I., THEN, MAKES FURTHER REDUCTIONS MORE LIKELY. A SYSTEM THAT MAKES BALLISTIC MISSILES LESS EFFECTIVE, MAKES THOSE MISSILES MORE NEGOTIABLE.

NOW THERE ARE THOSE WHO MAY BE PESSIMISTIC ABOUT THE CHANCES OF DEEP REDUCTIONS IN U.S. AND SOVIET NUCLEAR ARSENALS, BUT LET US NOT FORGET THAT IN 1981, WHEN I FIRST PROPOSED OUR ZERO OPTION, IT TOO WAS ALL BUT WRITTEN OFF BY MANY COMMENTATORS. IN THE TIME THAT HAS FOLLOWED, WE PERSEVERED AND STUCK TO OUR PRINCIPLES. WE HELD FIRM AGAINST THE ADVOCATES OF A SO-CALLED NUCLEAR FREEZE. WE FOLLOWED THROUGH ON OUR MODERNIZATION PROGRAM AND IN CLOSE COOPERATION WITH OUR ALLIES, INSTALLED THE CRUISE AND PERSHING'S IN EUROPE.

- 14 -

WHEN AT LONG LAST IT WAS REALIZED THAT WE IN THE ALLIANCE HAD THE COURAGE TO PROTECT OUR OWN LONG-RUN INTERESTS, PROGRESS TOWARD A MUTUALLY BENEFICIAL TREATY ENSUED.

AS YOU ARE ALL AWARE, GENERAL SECRETARY GORBACHEV WILL BE VISITING WASHINGTON BEGINNING DECEMBER 7TH. IF THE LAST-MINUTE DETAILS CAN BE WORKED OUT, WE HOPE TO SIGN AN HISTORIC TREATY THAT WILL ELIMINATE A WHOLE CLASS OF U.S. AND SOVIET NUCLEAR-ARMED INTERMEDIATE-RANGE MISSILES FROM THE FACE OF THE EARTH, THE FIRST MUTUALLY AGREED UPON REDUCTION IN OUR NUCLEAR ARSENALS EVER.

AND THIS COULD WELL BE JUST A BEGINNING. WE HOPE WE CAN SEE FORWARD MOVEMENT ON A NUMBER OF OTHER FRONTS. THE UNITED STATES, FOR EXAMPLE, HAS PROPOSED A 50-PERCENT REDUCTION IN U.S.-SOVIET OFFENSIVE STRATEGIC FORCES.

MUCH PROGRESS HAS BEEN MADE TOWARD A START AGREEMENT AND MORE IS POSSIBLE. BUT LET THERE BE NO DOUBT, GIVING UP THE STRATEGIC DEFENSE INITIATIVE AND THE PROTECTION IT WILL PROVIDE IS TOO HIGH A PRICE FOR ANY AGREEMENT.

NEITHER THE I.N.F. TREATY WE HOPE TO SIGN DURING THE UPCOMING SUMMIT, NOR ANY OTHER AGREEMENT THAT FOLLOWS, WILL BE BUILT ON TRUST. AGREEMENTS WITH THE SOVIET UNION MUST BE BASED ON RECIPROCITY, VERIFICATION, AND REALISM. AND WHILE WE WANT TO BOLSTER THE PEACE AND DO OUR PART TO IMPROVE RELATIONS, NO AGREEMENT SHOULD EVER BE SIGNED SIMPLY FOR THE SAKE OF SIGNING AN AGREEMENT, FOR THE SAKE OF ATMOSPHERICS.

IMPROVING THE GENERAL TONE OF RELATIONS BETWEEN OUR COUNTRIES, AS I'VE OUTLINED ON SEVERAL OCCASIONS, WILL REQUIRE MUCH MORE MOVEMENT FROM THE OTHER SIDE TOWARD THE SOLUTION OF REGIONAL CONFLICTS, A FAR GREATER RESPECT FOR HUMAN RIGHTS, AND PROGRESS ON A NUMBER OF BILATERAL ISSUES BETWEEN OUR COUNTRIES. AS I'VE EXPLAINED TO GENERAL SECRETARY GORBACHEV, OUR COUNTRIES DO NOT HAVE DIFFERENCES BECAUSE WE ARE WELL-ARMED, WE ARE WELL-ARMED BECAUSE WE HAVE DIFFERENCES.

EVEN WITH ALL THE TALK OF OPENNESS AND GLASNOST, MUCH CHANGE NEEDS TO TAKE PLACE BEFORE TRUST, LIKE THAT WE HAVE WITH DEMOCRATIC GOVERNMENTS, CAN COME INTO PLAY. THE SOVIET PEOPLES THEMSELVES -- EVEN THOUGH THERE HAS BEEN SOME CHANGE -- STILL TELL STORIES AND JOKE ABOUT THEIR PLIGHT.

- 17 -

I HEARD ONE ABOUT A FELLOW WHO WENT TO THE K.G.B. TO REPORT THAT HE LOST HIS PARROT. THE K.G.B. ASKED HIM WHY HE WAS BOTHERING THEM. WHY DIDN'T HE JUST REPORT IT TO THE LOCAL POLICE. HE ANSWERED, "I JUST WANT YOU TO KNOW, I DON'T AGREE WITH A THING THAT PARROT HAS TO SAY."

IN 4 MONTHS, WE WILL MARK THE 5TH ANNIVERSARY OF THE MARCH 23, 1983, SPEECH IN WHICH I CHALLENGED THE SCIENTIFIC COMMUNITY TO DEVELOP A SYSTEM THAT WOULD MAKE BALLISTIC MISSILES OBSOLETE. GENERAL GEORGE PATTON ONCE SAID, "NEVER TELL PEOPLE HOW TO DO THINGS. TELL THEM WHAT TO DO AND THEY WILL SURPRISE YOU WITH THEIR INGENUITY." THAT STATEMENT SHOWED A DEEP INSIGHT INTO THE AMERICAN CHARACTER, AND IT HAS BEEN PROVEN AGAIN IN OUR DRIVE TO ESTABLISH A STRATEGIC DEFENSE SYSTEM.

- 18 -

TODAY, I HAVE BEEN DEEPLY IMPRESSED WITH WHAT I'VE SEEN AND HEARD. THE PROGRESS MADE TOWARD ACHIEVING OUR GOALS GIVES US REASON FOR CONFIDENCE. THE CRITICS WHO CLAIMED IT COULDN'T BE DONE HAVE BEEN PROVEN WRONG AGAIN -- JUST HAS BEEN THE CASE WITH ALMOST EVERY TECHNOLOGICAL TRIUMPH IN THE PAST. THE SCIENTIFIC RESEARCH AND ENGINEERING WORK YOU ARE DOING, ALONG WITH THAT OF OTHERS LIKE YOU IN HUNDREDS OF LOCATIONS THROUGHOUT THIS GREAT LAND, IS A TRIBUTE TO THE GENIUS OF AMERICA. THIS IS TRULY A NATIONAL EFFORT -- BOTH GOVERNMENT AND PRIVATE SECTOR -- INVOLVING PRE-EMINENT INDIVIDUALS IN INDUSTRY, EDUCATION, AND THE SCIENTIFIC COMMUNITY.

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NO PRESIDENT COULD BE PROUDER OR MORE
GRATEFUL THAN I AM FOR ALL YOU, AND YOUR
FELLOW COLLEAGUES AROUND THE COUNTRY,
ARE DOING. GOD BLESS YOU.

#

MEMORANDUM
OF CALL

~~Previous~~ editions usable

TO:

John

☐

YOU WERE CALLED BY—

☐

YOU WERE VISITED BY—

Steve Stemer

OF (Organization)

☐

PLEASE PHONE ►

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FTS

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AUTOVON

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WILL CALL AGAIN

☐

IS WAITING TO SEE YOU

☐

RETURNED YOUR CALL

☐

WISHES AN APPOINTMENT

MESSAGE

A.S.A. ✓ P

5-35

RECEIVED BY

DATE

TIME

63-110 NSN 7540-00-634-4018

☆ GPO : 1982 O - 361-529 (210)

STANDARD FORM 63 (Rev. 8-81)
Prescribed by GSA
FPMR (41 CFR) 101-11.6

MEMORANDUM
OF CALL

Previous editions usable

TO:

John

☐ YOU WERE CALLED BY—

☐ WERE VISITED BY—

Steve Steiner

OF (Organization)

☐ PLEASE PHONE ►

☐ FTS

☐ TOTOVON

** 5697*

☐ WILL CALL AGAIN

☐ IS WAITING TO SEE YOU

☐ RETURNED YOUR CALL

☐ WISHES AN APPOINTMENT

MESSAGE

RECEIVED BY

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DATE

3/15

TIME

63-110 NSN 7540-00-634-4018

STANDARD FORM 63 (Rev. 8-81)

Prescribed by GSA

☆ GPO : 1982 O - 361-529 (210)

FPMR (41 CFR) 101-11.6

JOHN

RR

The President has seen ~~11~~
(Rohrabacher/ARD)
November 21, 1987
5:00 p.m.

PRESIDENTIAL ADDRESS: SDI/INF
MARTIN-MARIETTA PLANT
DENVER, COLORADO
TUESDAY, NOVEMBER 24, 1987

Thank you. And thank you Mr. Pownall and General Abrahamson. It is an honor for me to be at Martin-Marietta with all of you, men and women of science and engineering, who play such a vital role in this age of technology. I will have to admit I'm a bit awed by what I've seen and heard today.

Of course, not all my predecessors shared my sense of wonder about such things. One, President Rutherford B. Hayes played host to a notable science and technology event back in 1876 -- a demonstration in the White House of the newly invented telephone. President Hayes' reaction: "That's an amazing invention," he said, "but who would ever want to use them?" (PAUSE) When I heard him say that, I thought he might be mistaken.

Seriously though, I was born in a small town in the farm country of Illinois. Progress in those days meant indoor plumbing, electric lights, a telephone, and ^{LATER} perhaps a radio crystal set. Just in my lifetime, we've gone from a time when many, if not most, people traveled by horse power -- and I mean the kind that eats hay -- to an era of supersonic passenger service. And just possibly before I leave the scene, we will have developed a craft that will take off from runways as planes do today, but once at high altitude, this craft will rocket itself into space and zip to its destination at four or five

times the speed of sound -- from New York to Tokyo in 90 minutes.
(PAUSE) This could bring a whole new meaning for "sushi to go."

The America I was born into was acclaimed for its liberty and opportunity, yet that opportunity for which we were so proud has been expanded today beyond anything the Americans of my youth could possibly have imagined. Affordable world-wide communications and transportation have not just extended, but eliminated horizons. Computer capability, which a short time ago was available only to large corporations, is now being put to use by small business and individual entrepreneurs.

We are in an age when the common man can do and experience what in past times was enjoyed only by ~~kings~~, royalty, ^{ARISTOCRACY} and the elite. Jefferson, Washington, and Madison laid the foundation for liberty and equality; Edison, Einstein, Goddard, and others like them, like many of you, built on that foundation. It has been technology and freedom, together, that have pushed America ever forward and made her the land of abundance and progress we love so dearly.

British statesman Arthur Balfour once noted, "Science is the greatest instrument of social change... the most vital of all revolutions which marked the development of modern civilizations."

Science and technological-based revolutions in health care, food production, communications, transportation, manufacturing, and other endeavors have changed how we live and the quality of our lives. Before joining you, I was given a classified update on some of the key elements of the program you're working on.

It's clear that the project is bounding forward and I couldn't be more pleased. After what I have seen today, I believe that mankind is again on the edge of a revolution that will change the basic assumptions upon which we base our decisions and reshape the world in which we live.

Until now, mankind's search for security often focused on expanding the ability to lash out, to kill, to destroy. Technological advances throughout the ages increased man's destructive power, and those nations that did not keep pace soon felt the sting of defeat and the pain of subjugation. But humanity, in almost every case found a defense for every offense, and that is exactly what we are seeking: a defense against mankind's most deadly weapons: ballistic missiles.

You are laboring to develop a defensive system that will change history. Once you've completed your work, the world will never be the same. I suggest it will be a better and a safer world. And what better legacy can this generation leave than a safer world?

Our Strategic Defense Initiative offers mankind security through protection rather than retaliation. It is a scientific advance that will be judged a success based not on how many lives it is capable of taking -- which is none -- but on how many it is able to protect. It is a moral as well as scientific endeavor worth every minute and hour you are dedicating to it. Our goal is to strengthen deterrence by moving as soon as we are ready to increasing reliance on defenses to keep the peace.

I realize that being a government project, with all the politics that goes with that reality, your work can be frustrating. Wernher von Braun once said, "We can lick gravity, but sometimes the paperwork is overwhelming."

I appreciate the extraordinary effort each of you is making. Your mental prowess and creativity, and, yes, your hard work, will make or break the program. And I want you to know, what you accomplish will be put to good use in protecting your country, the free world, and perhaps all mankind against the threat of nuclear holocaust. You are not working to build a bargaining chip. It will not be traded away.

Yes, there are those who complain about the cost. Benjamin Franklin, himself a man of science and politics, once observed, "The expenses required to prevent a war are much lighter than those that will, if not prevented, be absolutely necessary to maintain it."

Well, mirroring that thought, I'd say that what we spend to protect ourselves from nuclear missiles is much lighter than the cost, human and otherwise, if even one nuclear missile is fired, even if by mistake, and we have to suffer the consequences because there is no way to stop it. In the case of S.D.I., America cannot afford not to do everything necessary to develop this missile defense system and put it into operation.

The Soviet Union, even as they criticize and try to cripple our S.D.I. research effort, has been aggressively moving ahead on its own anti-ballistic missile defense. They are spending many billions of dollars -- 20 times more than we have in the last

10 years -- and have concentrated the energy and talent of their brightest scientific minds. More than 10,000 skilled scientists and engineers are working on military lasers alone -- with thousands more developing high-tech weapons that use particle beams and kinetic energy.

The Soviet government wages its propaganda campaign against our S.D.I. research, even while they work overtime to develop their own S.D.I.-like system. We must not be lulled into reducing our commitment. Their military program, which includes everything from killer-satellites to the modernized anti-missile system that protects Moscow, dwarfs our S.D.I. program already. Those who would cut or eliminate funds for our effort would grant a clear monopoly in this vital area to our adversary. Because the question is not, will strategic defenses be developed? The question is rather, will the Soviet Union be the only country to possess them? The choice is ours.

Furthermore, the Strategic Defense Initiative is not aimed at protecting us and our allies against the Soviet Union alone. Francis Bacon once wrote, "He that will not apply new remedies must expect new evils; for time is the greatest innovator." Well, in the decades ahead, who knows what governments will obtain ballistic missile technology? Who knows how rational or competent those governments will be. I spoke before a meeting of the American Council of Life Insurance last week and I called S.D.I. an insurance policy. And that's what it is.

S.D.I. is not a weapon of war, but an insurer, a protector, of the peace. It is totally within the limits of the A.B.M.

treaty. Let me add, the United States has observed the A.B.M. treaty, but with the construction of the huge phased-array radar at Krasnoyarsk the Soviets have violated one of the treaty's lay provisions. This is but another example of why it's important not to rely on words alone. The Strategic Defense Initiative, you see, underwrites our efforts to achieve offensive arms reduction agreements. With a defensive system in place, the possibility that one side has cheated, and has a few missiles in hiding, is far less threatening. S.D.I., then, makes further reductions more likely. A system that makes ballistic missiles less effective, makes those missiles more negotiable.

Now there are those who may be pessimistic about the chances of deep reductions in the nuclear arsenals, but let us not forget that in 1981, when I first proposed our zero option, it too was all but written off by many commentators. In the time that has followed, we persevered and stuck to our principles. We held firm against the advocates of a so-called nuclear freeze. We followed through on our modernization program and in close cooperation with our allies, installed the Cruise and Pershings in Europe. When at long last it was realized that we in the alliance had the courage to protect our own long-run interests, progress toward a mutually beneficial treaty ensued.

As you are all aware, General Secretary Gorbachev will be visiting Washington beginning December 7th. If the last-minute details can be worked out, we hope to sign an historic treaty that will eliminate a whole class of U.S. and Soviet nuclear-armed intermediate-range missiles from the face of the

Earth, the first mutually agreed upon reduction in our nuclear arsenals ever.

And this could well be just a beginning. We hope we can see forward movement on a number of other fronts. The United States, for example, has proposed a 50-percent reduction in U.S.-Soviet Offensive Strategic Forces. Much progress has been made toward a START agreement and more is possible. But let there be no doubt, giving up the Strategic Defense Initiative and the protection it will provide is too high a price for any agreement.

Neither the I.N.F. treaty we hope to sign during the upcoming summit, nor any other agreement that follows, will be built on trust. Agreements with the Soviet Union must be based on reciprocity, verification, and realism. And while we want to bolster the peace and improve relations, no agreement should ever be signed simply for the sake of signing an agreement, for the sake of atmospherics. Improving the general tone of relations between our countries, as I've outlined on several occasions, will require much more movement toward the solution of regional conflicts, a far greater respect for human rights ~~within the Soviet Union~~, and progress on a number of bilateral issues between our countries. As I've explained to General Secretary Gorbachev, our countries do not have differences because we are well-armed, we are well-armed because we have differences.

Even with all the talk of openness and Glasnost, much change needs to take place before trust, like that we have with democratic governments, can come into play. The Soviet peoples themselves -- even though there has been some change -- still

tell stories and joke about their plight. I heard one about a fellow who went to the K.G.B. to report that he lost his parrot. The K.G.B. asked him why he was bothering them. Why didn't he just report it to the local police. He answered, "I just want you to know, I don't agree with a thing that parrot has to say."

In 4 months, we will mark the 5th anniversary of the March 23, 1983, speech in which I challenged the scientific community to develop a system that would make ballistic missiles obsolete. General George Patton once said, "Never tell people how to do things; tell them what to do, and they will surprise you with their ingenuity." That statement showed a deep insight into the American character, and it has been proven again in our drive to develop a strategic defense system.

Today, I have been deeply impressed with what I've seen and heard. The progress made toward achieving our goals has been nothing less than astounding. The critics who claimed it couldn't be done have been proven wrong again -- just has been the case with almost every technological triumph in the past. The scientific research and engineering work you are doing, along with that of others like you in hundreds of locations throughout this great land, is a tribute to the genius of America. This is truly a national effort -- both government and private sector -- involving pre-eminent individuals in industry, education, and the scientific community. No President could be prouder or more grateful than I am for all you, and your fellow colleagues around the country, are doing. God bless you.