COOPERATIVE THREAT REDUCTION

(CTR)

NUCLEAR WEAPONS SAFETY & SECURITY

AND

INTERCONTINENTAL BALLISTIC MISSILE ELIMINATION

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DTRA

G8 Global Partnership Against the Spread of Weapons and Materials of Mass Destruction
OVERVIEW

- DTRA/CTR Overview
- Nuclear Weapons Safety and Security
- Intercontinental Ballistic Missile (ICBM) Elimination
“The greatest threat before humanity today is the possibility of secret and sudden attack with chemical or biological or radiological or nuclear weapons. ...I propose to expand our efforts to keep weapons from the Cold War and other dangerous materials out of the wrong hands. ...We're dismantling, destroying and securing weapons and materials... We have more work to do there."

President George W. Bush
“The Defense Threat Reduction Agency safeguards America and its friends from Weapons of Mass Destruction (WMD) by reducing the present threat and preparing for the future threat.”
DoD CTR Process

**Agreement Between USA and**

**Article XXV**

1. This Treaty, including its Annexes, shall remain in force for 15 days unless superseded earlier by a subsequent agreement to purchase equipment and services for the purposes of this Treaty. The initial extension shall be for a period of five years. Upon expiration of the five years, this Treaty shall be subject to review and extension for successive five year periods in accordance with the procedures governing the initial extension, and it shall remain in force for each agreed five year period of extension unless it is superseded by a subsequent agreement on the elimination of silo ICBMs.

2. A standing body, the Joint Compliance and Inspection Commission, shall periodically review the viability of this treaty in light of changing circumstances. Said review shall occur not less than five years after entry into force and every five years thereafter.

Russia: 07/92
Belarus: 10/92
Ukraine: 10/93
Kazakhstan: 12/93
Georgia: 07/97
Uzbekistan: 06/01
Azerbaijan:

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NWS&S Program Prioritized Goals & Objectives

- Ship nuclear warheads to storage and dismantlement sites
- Provide secure protection for all remaining warheads during transportation and storage
- Enhance the safety of storage and transportation activities

The Way Ahead

- Consolidation
- Reduce 11 year site upgrade program to 5-6 years
NWSS & NWTS PROVIDES DEFENSE IN DEPTH

- SITE SECURITY ENHANCEMENTS
- PERSONNEL RELIABILITY PROGRAM
- GUARD FORCE TRAINING SYSTEMS
- SAFETY ENHANCEMENT CENTER
- SECURITY ASSESSMENT & TRAINING CENTER
- AUTOMATED INVENTORY CONTROL AND MANAGEMENT
- EMERGENCY RESPONSE CAPABILITIES
- WARHEAD TRANSPORT AND RAILCAR MAINTENANCE
- SUPERCONTAINERS
- SAFETY AND SUPPORT EQUIPMENT
Guard Force Training, Equipment and Personnel Screening

- 60 Small Arms Training Systems (SATS)
- 12 live fire shooting ranges
- Guard force radios to assist coordination
- Provide capability to screen personnel for nuclear duty
  - Personnel Reliability Program (PRP) Lab capable of evidentiary level testing
Personnel Reliability and Safety
(Personnel Reliability Program)
Automated Inventory Control Management System (AICMS)

What warheads are covered?

**Key**
- NW Destined for dismantlement
- Spares for operational delivery system
- Operational delivery system

**MINATOM Site**

12th MOD train shipment

CTR 12th MOD train shipment

S-type Storage Sites

Destined for dismantlement

Operational Base

AICMS accountable

Spares storage
Enhance the Safety of Storage and Transportation Activities

- Safety Enhancement Center (SEC): Field inspection and laboratory material analysis of nuclear weapons handling and storage equipment to support service life extension and safety analysis

- 45 fully equipped Pomoshnik emergency response vehicles

- Radiation dosimeters and radon detectors for personnel protection

- Information Analysis System (IAS) for managing Emergency Response assets within Russia

- 15 Emergency Support Equipment (ESE) module transport vehicles
Nuclear Weapons Transportation Security
Supercontainers
Potential Areas For Future G8 Cooperation

• Funding repairs of locomotive engines
• Repair of Access Rail Tracks
• Physical security enhancements of admin areas at nuclear weapons storage sites
• Personnel Reliability Program (PRP)
• Additional 75 Pomoshnik Emergency Response Vehicles
ICBM Elimination
SS-24 Silo Elimination

Missile Removal

Site Dismantlement
SS-24 Silo Ukraine
After Technical Restoration
SS-17/18 ICBMs

Receiving an SS-18 by rail

Storing an SS-17 alongside 2 SS-18s

Neutralizing an SS-18 ICBM

Cutting up an SS-18 nozzle
SS-18 Silo Elimination

SS-18 Launch Silo with cover open

Elimination debris at Aleysk

SS-18 Silo explosively eliminated

Technical Restoration at Aleysk
RUSSIAN FEDERATION
SS-18 Elimination Facility and Silo locations

RUSSIA

Moscow
Surovatikha
Kartaly
Uzhur
Dombarovskiy
Aleysk

SS-18 ICBM Base
Missile Elimination and Dismantlement Facility
SS-24 Launching From Rail-mobile Launcher
SS-24 Missiles and Stages
SS-24 Missile Storage
SS-24 ICBM in Rail-mobile Launcher
SS-24 Rail-Mobile ICBMs Stages

First Stage Solid Rocket Motor (SRM)

Second Stage SRM

Third Stage SRM
SS-24-associated Locations

- Launcher Elimination/Support Car Strategically Inoperable
- Mobile ICBM Base
- Non deployed ICBMs/Launchers
- Major Destruction & Dismantlement Site
- Solid Rocket Motor Burn Facilities

Locations:
- Kostroma
- Surovatikha
- Bershet
- Bryansk
- Moscow
- Perm’
- Khrizolitovyy
- Krasnoyarsk
- Plesetsk

Activities:
- Missile Disassembly
- Temporary Storage
- Solid propellant burn
- Missile cut-up

Declared from ICBM Base to ICBM Loading Facility

Russian Federation
SS-25 Missile Launch
SS-25 Launch Support Vehicles, Road-mobile Launchers, and Fixed Structures
SS-25 ICBM on Road-mobile Launcher
CTR Scorecard
Ukraine, Kazakhstan, & Belarus are Nuclear Weapons Free

Current Cumulative Reductions

- Warheads Deactivated: 13300 to 6302 to 8564 to 9444
- ICBMs Destroyed: 1473 to 533 to 821 to 1131
- ICBM Silos Eliminated: 831 to 459 to 485 to 485
- ICBM Mobile Launchers Destroyed: 442 to 127 to 129 to 138
- Bombers Eliminated: 207 to 10 to 174 to 381
- Nuclear ASMs Destroyed: 708 to 702 to 708 to 708
- SLBM Launchers Eliminated: 728 to 408 to 520 to 628
- SLBM Eliminated: 936 to 489 to 629 to 712
- SSBNs Destroyed: 48 to 27 to 35 to 40
- Nuclear Test Tunnels/Holes Sealed: 194 to 194 to 194 to 194

Current numbers as of 12 April 2004; projections as of 31 Dec 2003
CONCLUSION

The CTR program enhances US national security as well as international security by providing defense in depth to counter the nuclear proliferation threat at its source.