

**PROTOCOL ON PROCEDURES GOVERNING
THE ELIMINATION OF THE MISSILE SYSTEMS
SUBJECT TO THE TREATY BETWEEN THE
UNITED STATES OF AMERICA AND THE
UNION OF SOVIET SOCIALIST REPUBLICS ON
THE ELIMINATION OF THEIR INTERMEDIATE-
RANGE AND SHORTER-RANGE MISSILES**

Pursuant to and in implementation of the Treaty Between the United States of America and the Union of Soviet Socialist Republics on the Elimination of Their Intermediate-Range and Shorter-Range Missiles of December 8, 1987, hereinafter referred to as the Treaty, the Parties hereby agree upon procedures governing the elimination of the missile systems subject to the Treaty.

I. Items of Missile Systems Subject to Elimination

The specific items for each type of missile system to be eliminated are:

1. For the United States of America:

Pershing II: missile, launcher and launch pad shelter;

BGM-109G: missile, launch canister and launcher;

Pershing IA: missile and launcher; and

Pershing IB: missile.

2. For the Union of Soviet Socialist Republics:

SS-20: missile, launch canister, launcher, missile transporter vehicle and fixed structure for a launcher;

SS-4: missile, missile transporter vehicle, missile erector, launch stand and propellant tanks;

SS-5: missile;

SSC-X-4: missile, launch canister and launcher;

SS-12: missile, launcher and missile transporter vehicle; and

SS-23: missile, launcher and missile transporter vehicle.

3. For both Parties, all training missiles, training missile stages, training launch canisters and training launchers shall be subject to elimination.

4. For both Parties, all stages of intermediate-range and shorter-range GLBMs shall be subject to elimination.

5. For both Parties, all front sections of deployed intermediate-range and shorter-range missiles shall be subject to elimination.

II. Procedures for Elimination at Elimination Facilities

1. In order to ensure the reliable determination of the type and number of missiles, missile stages, front sections, launch canisters, launchers, missile transporter vehicles, missile erectors and launch stands, as well as training missiles, training missile stages, training launch canisters and training launchers, indicated in Section I of this Protocol, being eliminated at elimination facilities, and to preclude the possibility of restoration of such items for purposes inconsistent with the provisions of the Treaty, the Parties shall fulfill the requirements below.

2. The conduct of the elimination procedures for the items of missile systems listed in paragraph 1 of this Section, except for training missiles, training missile stages, training launch canisters and training launchers, shall be subject to on-site inspection in accordance with Article XI of the Treaty and the Protocol on Inspection. The Parties shall have the right to conduct on-site inspections to confirm the completion of the elimination procedures set forth in paragraph 11 of this Section for training missiles, training missile stages, training launch canisters and training launchers. The Party possessing such a training missile, training missile stage, training launch canister or training launcher shall inform the other Party of the name and coordinates of the elimination facility at which the on-site inspection may be conducted as well as the date on which it may be conducted. Such information shall be provided no less than 30 days in advance of that date.

Poker Flats Research Range, Alaska 65 07 N 147 29 W	6
Roi Namur, Kwajalein 09 25 N 167 28 E	3
Barking Sands, Kauai, Hawaii 22 06 N 159 47 W	4
Western Test Range, California 34 37 N 120 37 W	1
Cape Cod, Massachusetts 42 01 N 070 07 W	1
Wake Island 19 18 N 166 37 E	2
Wallops Island, Virginia 37 51 N 075 28 W	1

(b) UNION OF SOVIET SOCIALIST REPUBLICS

Plesetskaya 62 53 N 040 52 E	3
Kapustin Yar 48 32 N 046 18 E	2

Each Party, in signing this Memorandum of Understanding, acknowledges it is responsible for the accuracy of only its own data. Signature of this Memorandum of Understanding constitutes acceptance of the categories of data and inclusion of the data contained herein.

This Memorandum of Understanding is an integral part of the Treaty. It shall enter into force on the date of entry into force of the Treaty and shall remain in force so long as the Treaty remains in force.

DONE at Washington on December 8, 1987, in two copies, each in the English and Russian languages, both texts being equally authentic.

**FOR THE UNITED STATES OF
AMERICA:**

Ronald Reagan

President of the United States
of America

**FOR THE UNION OF SOVIET
SOCIALIST REPUBLICS:**

Mikhail Gorbachev

General Secretary of the Central
Committee of the CPSU

3. Prior to a missile's arrival at the elimination facility, its nuclear warhead device and guidance elements may be removed.

4. Each Party shall select the particular technological means necessary to implement the procedures required in paragraphs 10 and 11 of this Section and to allow for on-site inspection of the conduct of the elimination procedures required in paragraph 10 of this Section in accordance with Article XI of the Treaty, this Protocol and the Protocol on Inspection.

5. The initiation of the elimination of the items of missile systems subject to this Section shall be considered to be the commencement of the procedures set forth in paragraph 10 or 11 of this Section.

6. Immediately prior to the initiation of the elimination procedures set forth in paragraph 10 of this Section, an inspector from the Party receiving the pertinent notification required by paragraph 5(c) of Article IX of the Treaty shall confirm and record the type and number of items of missile systems, listed in paragraph 1 of this Section, which are to be eliminated. If the inspecting Party deems it necessary, this shall include a visual inspection of the contents of launch canisters.

7. A missile stage being eliminated by burning in accordance with the procedures set forth in paragraph 10 of this Section shall not be instrumented for data collection. Prior to the initiation of the elimination procedures set forth in paragraph 10 of this Section, an inspector from the inspecting Party shall confirm that such missile stages are not instrumented for data collection. Those missile stages shall be subject to continuous observation by such an inspector from the time of that inspection until the burning is completed.

8. The completion of the elimination procedures set forth in this Section, except those for training missiles, training missile stages, training launch canisters and training launchers, along with the type and number of items of missile systems for which those procedures have been completed, shall be confirmed in writing by the representative of the Party carrying out the elimination and by the inspection team leader of the other Party. The elimination of a training

missile, training missile stage, training launch canister or training launcher shall be considered to have been completed upon completion of the procedures set forth in paragraph 11 of this Section and notification as required by paragraph 5(e) of Article IX of the Treaty following the date specified pursuant to paragraph 2 of this Section.

9. The Parties agree that all United States and Soviet intermediate-range and shorter-range missiles and their associated reentry vehicles shall be eliminated within an agreed overall period of elimination. It is further agreed that all such missiles shall, in fact, be eliminated fifteen days prior to the end of the overall period of elimination. During the last fifteen days, a Party shall withdraw to its national territory reentry vehicles which, by unilateral decision, have been released from existing programs of cooperation and eliminate them during the same timeframe in accordance with the procedures set forth in this Section.

10. The specific procedures for the elimination of the items of missile systems listed in paragraph 1 of this Section shall be as follows, unless the Parties agree upon different procedures to achieve the same result as the procedures identified in this paragraph:

For the Pershing II:

Missile:

- (a) missile stages shall be eliminated by explosive demolition or burning;
- (b) solid fuel, rocket nozzles and motor cases not destroyed in this process shall be burned, crushed, flattened or destroyed by explosion; and
- (c) front section, minus nuclear warhead device and guidance elements, shall be crushed or flattened.

Launcher:

- (a) erector-launcher mechanism shall be removed from launcher chassis;
- (b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(c) missile launch support equipment, including external instrumentation compartments, shall be removed from launcher chassis; and

(d) launcher chassis shall be cut at a location that is not an assembly joint into two pieces of approximately equal size.

For the BGM-109G:

Missile:

(a) missile airframe shall be cut longitudinally into two pieces;

(b) wings and tail section shall be severed from missile airframe at locations that are not assembly joints; and

(c) front section, minus nuclear warhead device and guidance elements, shall be crushed or flattened.

Launch Canister:

launch canister shall be crushed, flattened, cut into two pieces of approximately equal size or destroyed by explosion.

Launcher:

(a) erector-launcher mechanism shall be removed from launcher chassis;

(b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(c) missile launch support equipment, including external instrumentation compartments, shall be removed from launcher chassis; and

(d) launcher chassis shall be cut at a location that is not an assembly joint into two pieces of approximately equal size.

For the Pershing IA:

Missile:

(a) missile stages shall be eliminated by explosive demolition or burning;

(b) solid fuel, rocket nozzles and motor cases not destroyed in this process shall be burned, crushed, flattened or destroyed by explosion; and

(c) front section, minus nuclear warhead device and guidance elements, shall be crushed or flattened.

Launcher:

(a) erector-launcher mechanism shall be removed from launcher chassis;

(b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(c) missile launch support equipment, including external instrumentation compartments, shall be removed from launcher chassis; and

(d) launcher chassis shall be cut at a location that is not an assembly joint into two pieces of approximately equal size.

For the Pershing IB:

Missile:

(a) missile stage shall be eliminated by explosive demolition or burning;

(b) solid fuel, rocket nozzle and motor case not destroyed in this process shall be burned, crushed, flattened or destroyed by explosion; and

(c) front section, minus nuclear warhead device and guidance elements, shall be crushed or flattened.

For the SS-20:

Missile:

(a) missile shall be eliminated by explosive demolition of the missile in its launch canister or by burning missile stages;

(b) solid fuel, rocket nozzles and motor cases not destroyed in this process shall be burned, crushed, flattened or destroyed by explosion; and

(c) front section, including reentry vehicles, minus nuclear warhead devices, and instrumentation compartment, minus guidance elements, shall be crushed or flattened.

Launch Canister:

launch canister shall be destroyed by explosive demolition together with a missile, or shall be destroyed separately by explosion, cut into two pieces of approximately equal size, crushed or flattened.

Launcher:

(a) erector-launcher mechanism shall be removed from launcher chassis;

(b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(c) missile launch support equipment, including external instrumentation compartments, shall be removed from launcher chassis;

(d) mountings of erector-launcher mechanism and launcher leveling supports shall be cut off launcher chassis;

(e) launcher leveling supports shall be cut at locations that are not assembly joints into two pieces of approximately equal size; and

(f) a portion of the launcher chassis, at least 0.78 meters in length, shall be cut off aft of the rear axle.

Missile Transporter Vehicle:

(a) all mechanisms associated with missile loading and mounting shall be removed from transporter vehicle chassis;

(b) all mountings of such mechanisms shall be cut off transporter vehicle chassis;

(c) all components of the mechanisms associated with missile loading and mounting shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(d) external instrumentation compartments

shall be removed from transporter vehicle chassis;

(e) transporter vehicle leveling supports shall be cut off transporter vehicle chassis and cut at locations that are not assembly joints into two pieces of approximately equal size; and

(f) a portion of the transporter vehicle chassis, at least 0.78 meters in length, shall be cut off aft of the rear axle.

For the SS-4:

Missile:

(a) nozzles of propulsion system shall be cut off at locations that are not assembly joints;

(b) all propellant tanks shall be cut into two pieces of approximately equal size;

(c) instrumentation compartment, minus guidance elements, shall be cut into two pieces of approximately equal size; and

(d) front section, minus nuclear warhead device, shall be crushed or flattened.

Launch Stand:

launch stand components shall be cut at locations that are not assembly joints into two pieces of approximately equal size.

Missile Erector:

(a) jib, missile erector leveling supports and missile erector mechanism shall be cut off missile erector at locations that are not assembly joints; and

(b) jib and missile erector leveling supports shall be cut into two pieces of approximately equal size.

Missile Transporter Vehicle:

mounting components for a missile and for a missile erector mechanism as well as supports for erecting a missile onto a launcher shall be cut off transporter vehicle at locations that are not assembly joints.

For the SS-5:Missile:

- (a) nozzles of propulsion system shall be cut off at locations that are not assembly joints;
- (b) all propellant tanks shall be cut into two pieces of approximately equal size; and
- (c) instrumentation compartment, minus guidance elements, shall be cut into two pieces of approximately equal size.

For the SSC-X-4:Missile:

- (a) missile airframe shall be cut longitudinally into two pieces;
- (b) wings and tail section shall be severed from missile airframe at locations that are not assembly joints; and
- (c) front section, minus nuclear warhead device and guidance elements, shall be crushed or flattened.

Launch Canister:

launch canister shall be crushed, flattened, cut into two pieces of approximately equal size or destroyed by explosion.

Launcher:

- (a) erector-launcher mechanism shall be removed from launcher chassis;
- (b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;
- (c) missile launch support equipment, including external instrumentation compartments, shall be removed from launcher chassis;
- (d) mountings of erector-launcher mechanism and launcher leveling supports shall be cut off launcher chassis;
- (e) launcher leveling supports shall be cut at

locations that are not assembly joints into two pieces of approximately equal size; and

- (f) the launcher chassis shall be severed at a location determined by measuring no more than 0.70 meters rearward from the rear axle.

For the SS-12:Missile:

- (a) missile shall be eliminated by explosive demolition or by burning missile stages;
- (b) solid fuel, rocket nozzles and motor cases not destroyed in this process shall be burned, crushed, flattened or destroyed by explosion; and
- (c) front section, minus nuclear warhead device, and instrumentation compartment, minus guidance elements, shall be crushed, flattened or destroyed by explosive demolition together with a missile.

Launcher:

- (a) erector-launcher mechanism shall be removed from launcher chassis;
- (b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;
- (c) missile launch support equipment, including external instrumentation compartments, shall be removed from launcher chassis;
- (d) mountings of erector-launcher mechanism and launcher leveling supports shall be cut off launcher chassis;
- (e) launcher leveling supports shall be cut at locations that are not assembly joints into two pieces of approximately equal size; and
- (f) a portion of the launcher chassis, at least 1.10 meters in length, shall be cut off aft of the rear axle.

Missile Transporter Vehicle:

- (a) all mechanisms associated with missile loading and mounting shall be removed from transporter vehicle chassis;

(b) all mountings of such mechanisms shall be cut off transporter vehicle chassis;

(c) all components of the mechanisms associated with missile loading and mounting shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(d) external instrumentation compartments shall be removed from transporter vehicle chassis;

(e) transporter vehicle leveling supports shall be cut off transporter vehicle chassis and cut at locations that are not assembly joints into two pieces of approximately equal size; and

(f) a portion of the transporter vehicle chassis, at least 1.10 meters in length, shall be cut off aft of the rear axle.

For the SS-23:

Missile:

(a) missile shall be eliminated by explosive demolition or by burning the missile stage;

(b) solid fuel, rocket nozzle and motor case not destroyed in this process shall be burned, crushed, flattened or destroyed by explosion; and

(c) front section, minus nuclear warhead device, and instrumentation compartment, minus guidance elements, shall be crushed, flattened, or destroyed by explosive demolition together with a missile.

Launcher:

(a) erector-launcher mechanism shall be removed from launcher body;

(b) all components of erector-launcher mechanism shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(c) missile launch support equipment shall be removed from launcher body;

(d) mountings of erector-launcher mechanism and launcher leveling supports shall be cut off launcher body;

(e) launcher leveling supports shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(f) each environmental cover of the launcher body shall be removed and cut into two pieces of approximately equal size; and

(g) a portion of the launcher body, at least 0.85 meters in length, shall be cut off aft of the rear axle.

Missile Transporter Vehicle:

(a) all mechanisms associated with missile loading and mounting shall be removed from transporter vehicle body;

(b) all mountings of such mechanisms shall be cut off transporter vehicle body;

(c) all components of mechanisms associated with missile loading and mounting shall be cut at locations that are not assembly joints into two pieces of approximately equal size;

(d) control equipment of the mechanism associated with missile loading shall be removed from transporter vehicle body;

(e) transporter vehicle leveling supports shall be cut off transporter vehicle body and cut at locations that are not assembly joints into two pieces of approximately equal size; and

(f) a portion of the transporter vehicle body, at least 0.85 meters in length, shall be cut off aft of the rear axle.

11. The specific procedures for the elimination of the training missiles, training missile stages, training launch canisters and training launchers indicated in paragraph 1 of this Section shall be as follows:

Training Missile and Training Missile Stage:

training missile and training missile stage shall be crushed, flattened, cut into two pieces of approximately equal size or destroyed by explosion.

Training Launch Canister:

training launch canister shall be crushed, flattened, cut into two pieces of approximately equal size or destroyed by explosion.

Training Launcher:

training launcher chassis shall be cut at the same location designated in paragraph 10 of this Section for launcher of the same type of missile.

III. Elimination of Missiles by Means of Launching

1. Elimination of missiles by means of launching pursuant to paragraph 5 of Article X of the Treaty shall be subject to on-site inspection in accordance with paragraph 7 of Article XI of the Treaty and the Protocol on Inspection.

Immediately prior to each launch conducted for the purpose of elimination, an inspector from the inspecting Party shall confirm by visual observation the type of missile to be launched.

2. All missiles being eliminated by means of launching shall be launched from designated elimination facilities to existing impact areas for such missiles. No such missile shall be used as a target vehicle for a ballistic missile interceptor.

3. Missiles being eliminated by means of launching shall be launched one at a time, and no less than six hours shall elapse between such launches.

4. Such launches shall involve ignition of all missile stages. Neither Party shall transmit or recover data from missiles being eliminated by means of launching except for unencrypted data used for range safety purposes.

5. The completion of the elimination procedures set forth in this Section, and the type and number of missiles for which those procedures have been completed, shall be confirmed in writing by the representative of the Party carrying out the elimination and by the inspection team leader of the other Party.

6. A missile shall be considered to be eliminated by means of launching after completion of the procedures set forth in this Section and upon notification required by paragraph 5(e) of Article IX of the Treaty.

IV. Procedures for Elimination *In Situ*1. Support Structures

(a) Support structures listed in Section I of this Protocol shall be eliminated *in situ*.

(b) The initiation of the elimination of support structures shall be considered to be the commencement of the elimination procedures required in paragraph 1(d) of this Section.

(c) The elimination of support structures shall be subject to verification by on-site inspection in accordance with paragraph 4 of Article XI of the Treaty.

(d) The specific elimination procedures for support structures shall be as follows:

(i) the superstructure of the fixed structure or shelter shall be dismantled or demolished, and removed from its base or foundation;

(ii) the base or foundation of the fixed structure or shelter shall be destroyed by excavation or explosion;

(iii) the destroyed base or foundation of a fixed structure or shelter shall remain visible to national technical means of verification for six months or until completion of an on-site inspection conducted in accordance with Article XI of the Treaty; and

(iv) upon completion of the above requirements, the elimination procedures shall be considered to have been completed.

2. Propellant Tanks for SS-4 Missiles

Fixed and transportable propellant tanks for SS-4 missiles shall be removed from launch sites.

3. Training Missiles, Training Missile Stages, Training Launch Canisters and Training Launchers

(a) Training missiles, training missile stages, training launch canisters and training launchers not eliminated at elimination facilities shall be eliminated *in situ*.

(b) Training missiles, training missile stages,

training launch canisters and training launchers being eliminated *in situ* shall be eliminated in accordance with the specific procedures set forth in paragraph 11 of Section II of this Protocol.

(c) Each Party shall have the right to conduct on-site inspection to confirm the completion of the elimination procedures for training missiles, training missile stages, training launch canisters and training launchers.

(d) The Party possessing such a training missile, training missile stage, training launch canister or training launcher shall inform the other Party of the place-name and coordinates of the location at which the on-site inspection provided for in paragraph 3(c) of this Section may be conducted as well as the date on which it may be conducted. Such information shall be provided no less than 30 days in advance of that date.

(e) Elimination of a training missile, training missile stage, training launch canister or training launcher shall be considered to have been completed upon the completion of the procedures required by this paragraph and upon notification as required by paragraph 5(e) of Article IX of the Treaty following the date specified pursuant to paragraph 3(d) of this Section.

V. Other Types of Elimination

1. Loss or Accidental Destruction

(a) If an item listed in Section I of this Protocol is lost or destroyed as a result of an accident, the possessing Party shall notify the other Party within 48 hours, as required in paragraph 5(e) of Article IX of the Treaty, that the item has been eliminated.

(b) Such notification shall include the type of the eliminated item, its approximate or assumed location and the circumstances related to the loss or accidental destruction.

(c) In such case, the other Party shall have the right to conduct an inspection of the specific point at which the accident occurred to provide confidence that the item has been eliminated.

2. Static Display

(a) The Parties shall have the right to eliminate missiles, launch canisters and

launchers, as well as training missiles, training launch canisters and training launchers, listed in Section I of this Protocol by placing them on static display. Each Party shall be limited to a total of 15 missiles, 15 launch canisters and 15 launchers on such static display.

(b) Prior to being placed on static display, a missile, launch canister or launcher shall be rendered unusable for purposes inconsistent with the Treaty. Missile propellant shall be removed and erector-launcher mechanisms shall be rendered inoperative.

(c) The Party possessing a missile, launch canister or launcher, as well as a training missile, training launch canister or training launcher that is to be eliminated by placing it on static display shall provide the other Party with the place-name and coordinates of the location at which such a missile, launch canister or launcher is to be on static display, as well as the location at which the on-site inspection provided for in paragraph 2(d) of this Section, may take place.

(d) Each Party shall have the right to conduct an on-site inspection of such a missile, launch canister or launcher within 60 days of receipt of the notification required in paragraph 2(c) of this Section.

(e) Elimination of a missile, launch canister or launcher, as well as a training missile, training launch canister or training launcher, by placing it on static display shall be considered to have been completed upon completion of the procedures required by this paragraph and notification as required by paragraph 5(e) of Article IX of the Treaty.

This Protocol is an integral part of the Treaty. It shall enter into force on the date of the entry into force of the Treaty and shall remain in force so long as the Treaty remains in force. As provided for in paragraph 1(b) of Article XIII of the Treaty, the Parties may agree upon such measures as may be necessary to improve the viability and effectiveness of this Protocol. Such measures shall not be deemed amendments to the Treaty.

DONE at Washington on December 8, 1987,
in two copies, each in the English and Russian
languages, both texts being equally authentic.

FOR THE UNITED STATES OF AMERICA:

RONALD REAGAN

President of the United States of America

FOR THE UNION OF SOVIET SOCIALIST

REPUBLICS:

M.S. GORBACHEV

*General Secretary of the Central
Committee of the CPSU*