

Vereinbarung über die Einrichtung der Datenbank  
für den Vertrag zwischen der UdSSR und den USA zur Beseitigung ihrer  
Mittelstrecken- und kurzreichweitigeren Raketen ÷ ‚INF-Vertrag‘

Dies ist eine 1:1 Kopie der Informationen auf der Webseite <http://fas.org/nuke/control/inf/text/inf3.htm>.  
Die Koordinatenangaben können kopiert und zur Visualisierung z.B. direkt Google-Maps oder –Earth übergeben werden.

**MEMORANDUM OF UNDERSTANDING REGARDING THE ESTABLISHMENT OF THE DATA BASE  
FOR THE TREATY BETWEEN THE UNION OF SOVIET SOCIALIST REPUBLICS AND THE  
UNITED STATES OF AMERICA ON THE ELIMINATION OF THEIR  
INTERMEDIATE-RANGE AND SHORTER-RANGE MISSILES**

Pursuant to and in implementation of the Treaty Between the Union of Soviet Socialist Republics and the United States of America on the Elimination of Their Intermediate-Range and Shorter-Range Missiles of December 8, 1987, hereinafter referred to as the Treaty, the Parties have exchanged data current as of November 1, 1987, on intermediate-range and shorter-range missiles and launchers of such missiles and support structures and support equipment associated with such missiles and launchers.

**I. Definitions**

For the purposes of this Memorandum of Understanding, the Treaty, the Protocol on Elimination, and the Protocol on Inspection:

1. The term "missile production facility" means a facility for the assembly or production of solid-propellant intermediate-range or shorter-range GLBMs, or existing types of GLCMs.
2. The term "missile repair facility" means a facility at which repair or maintenance of intermediate-range or shorter-range missiles takes place other than inspection and maintenance conducted at a missile operating base.
3. The term "launcher production facility" means a facility for final assembly of launchers of intermediate-range or shorter-range missiles.
4. The term "launcher repair facility" means a facility at which repair or maintenance of launchers of intermediate-range or shorter-range missiles takes place other than inspection and maintenance conducted at a missile operating base.
5. The term "test range" means an area at which flight-testing of intermediate-range or shorter-range missiles takes place.
6. The term "training facility" means a facility, not at a missile operating base, at which personnel are trained in the use of intermediate-range or shorter-range missiles or launchers of such missiles and at which launchers of such missiles are located.
7. The term "missile storage facility" means a facility, not at a missile operating base, at which intermediate-range or shorter-range missiles or stages of such missiles are stored.
8. The term "launcher storage facility" means a facility, not at a missile operating base, at which launchers of intermediate-range or shorter-range missiles are stored.
9. The term "elimination facility" means a facility at which intermediate-range or shorter-range missiles, missile stages and launchers of such missiles or support equipment associated with such missiles or launchers are eliminated.
10. The term "support equipment" means unique vehicles and mobile or transportable equipment that support a deployed intermediate-range or shorter-range missile or a launcher of such a missile. Support equipment shall include full-scale inert training missiles, full-scale inert training missile stages, full-scale inert training launch canisters, and training launchers not capable of launching a missile. A listing of such support equipment associated with each existing type of missile, and launchers of such missiles, except for training equipment, is contained in Section VI of this Memorandum of Understanding.
11. The term "support structure" means a unique fixed structure used to support deployed intermediate-range missiles or launchers of such missiles. A listing of such support structures associated with each existing type of missile, and launchers of such missiles, except for training equipment, is contained in Section VI of this Memorandum of Understanding.
12. The term "research and development launch site" means a facility at which research and development booster systems are launched.

**II. Total Numbers of Intermediate-Range and Shorter-Range Missiles**

**and Launchers of Such Missiles Subject to the Treaty**

1. The numbers of intermediate-range missiles and launchers of such missiles for each Party are as follow:

	USA	USSR
Deployed missiles	429	470
Non-deployed missiles	260	356
Aggregate number of deployed and non-deployed missiles	689	826
Aggregate number of second stages	236	650
Deployed launchers	214	484
Non-deployed launchers	68	124
Aggregate number of deployed and non-deployed launchers	282	608

2. The numbers of shorter-range missiles and launchers of such missiles for each Party are as follow:

	USA	USSR
Deployed missiles	0	387
Non-deployed missiles	178	539
Aggregate number of deployed and non-deployed missiles	178	926
Aggregate number of second stages	182	726
Deployed launchers	0	197
Non-deployed launchers	1	40
Aggregate number of deployed and non-deployed launchers	1	237

**III. Intermediate-Range Missiles, Launchers of Such Missiles and Support Structures and Support Equipment Associated With Such Missiles and Launchers**

**1. Deployed**

The following are the deployment areas, missile operating bases, their locations and the numbers, for each Party of all deployed intermediate-range missiles listed as existing types in Article III of the Treaty, launchers of such missiles and the support structures and support equipment associated with such missiles and launchers. Site diagrams, to include boundaries and center coordinates, of each listed missile operating base are appended to this Memorandum of Understanding. The boundaries of deployment areas are indicated by specifying geographic coordinates, connected by straight lines or linear landmarks, to include national boundaries, rivers, railroads or highways.

<sup>1</sup> For information on the availability of site diagrams and accompanying photographs, call or write: Public Information Service, Bureau of Public Affairs, U.S. Department of State, 2201 C Street, NW, Washington, D.C. 20520 (202-647-6575).

**Missiles      Launchers      Support Structures/Equipment**

**(a) UNITED STATES OF AMERICA**

**(i) Pershing II**

**Deployment Area One**

The Federal Republic of Germany

Boundaries:

The territory of The Federal Republic of

Germany  
 bounded on the north by 51 degrees 00 minutes  
 00  
 seconds north latitude; on the east by 012 degrees  
 00 minutes 00 seconds east longitude; on the  
 south  
 by 48 degrees 00 minutes 00 seconds north  
 latitude;  
 and within the national boundaries of The Federal  
 Republic of Germany.

**Missile Operating Bases**

Schwaebisch-Gmuend 48 48 54 N 009 48 29 E	40 (includes 4 spares)	36	Launch Pad Shelter Training Missile Stage	0 2 4
Neu Ulm 48 22 40 N 010 00 45 E	40 (includes 4 spares)	43 (includes 7 spares)	Launch Pad Shelter Training Missile Stage	0 2 4
Waldheide-Neckarsulm 49 07 45 N 009 16 31 E	40 (includes 4 spares)	36	Launch Pad Shelter Training Missile Stage	0 2 4

**(ii) BGM-109G**

**Deployment Area One**

The United Kingdom of Great Britain and  
 Northern  
 Ireland Boundaries:  
 The territory of The United Kingdom bounded on  
 the north by 52 degrees 40 minutes 00 seconds  
 north latitude; on the west by 003 degrees 30  
 minutes 00 seconds west longitude; on the south  
 by the English Channel; and on the east by the  
 English Channel and the North Sea.

**Missile Operating Base**

Greenham Common 51 22 35 N 001 18 12 W	101 with launch canister (includes 5 spares)	29 (includes 5 spares)	Training Missile Training Launch Canister	0 7
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**Deployment Area Two**

The United Kingdom of Great Britain and  
 Northern  
 Ireland  
 Boundaries:  
 The territory of The United Kingdom bounded on  
 the north by 53 degrees 45 minutes 00 seconds  
 north latitude; on the west by 002 degrees 45  
 minutes 00 seconds west longitude; on the south  
 by 51 degrees 05 minutes 00 seconds north  
 latitude;  
 and on the east by the English Channel and  
 the North Sea.

	<b>Missiles</b>	<b>Launchers</b>	<b>Support Structures/Equipment</b>	
<b>Missile Operating Base</b> Molesworth	18*	6*	Training Missile	0

52 23 00 N 000 25 35 W	with launch canister	Training Launch Canister	7
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**Deployment Area**

The Republic of Italy

Boundaries:

The territory of the Republic of Italy within the boundaries of the Island of Sicily.

**Missile Operating Base**

Comiso 36 59 44 N 014 36 34 E	108 with launch canisters (includes 12 spares)	31 (includes 7 spares)	Training Missile Training Launch Canister	0 7
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**Deployment Area**

The Kingdom of Belgium

Boundaries:

The territory of The Kingdom of Belgium.

**Missile Operating Base**

Florennes 50 13 35 N 004 39 00 E	20 with launch canister (includes 4 spares)	12 (includes 8 spares)	Training Missile Training Launch Canister	0 7
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**Deployment Area Two**

The Federal Republic of Germany

Boundaries:

The territory of The Federal Republic of Germany bounded on the north by 51 degrees 25 minutes 00 seconds north latitude; on the east by 009 degrees 30 minutes 00 seconds east longitude; on the south by 48 degrees 43 minutes 00 seconds north latitude; and on the west by the national boundaries of The Federal Republic of Germany.

**Missile Operating Base**

Wueschheim 50 02 33 N 007 25 06 E	62 with launch canister (includes 14 spares)	31 (includes 9 spares)	Training Missile Training Launch Canister	1 1 0
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**Deployment Area**

The Kingdom of the Netherlands

Boundaries:

The territory of The Kingdom of the Netherlands bounded on the north by 52 degrees 30 minutes 00 seconds north latitude and within the national boundaries of The Kingdom of the Netherlands.

**Missile Operating Base**

Woensdrecht 51 26 12 N 004 21 15 E	0 with	0	Training Missile Training Launch Canister	0 0
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launch  
canister

\* In preparation for operational status.

**Missiles      Launchers      Support Structures/Equipment**

**(b) UNION OF SOVIET SOCIALIST  
REPUBLICS**

**(i) SS-20**

**Deployment Area**

Postavy  
55 12 13 N 027 00 00 E  
54 52 47 026 41 18  
54 43 58 026 04 07  
55 01 13 026 03 43

**Missile Operating Base**

Postavy	9	9	Launch Canister	9
55 09 47 N 026 54 21 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Vetrino  
55 28 44 N 028 42 29 E  
55 01 03 028 15 03  
55 01 16 027 48 46  
55 16 22 027 49 05

**Missile Operating Base**

Vetrino	9	9	Launch Canister	9
55 24 19 N 028 33 29 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Polotsk  
55 37 36 N 028 23 49 E  
55 28 07 029 20 25  
54 32 15 029 09 47  
54 39 32 028 10 40

**Missile Operating Base**

Polotsk	9	9	LaunchCanister	9
55 22 34 N 028 44 17 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Smorgon'  
54 37 43 N 026 52 34 E  
54 22 37 026 52 37  
54 37 18 025 41 58  
54 45 21 026 15 13

**Missile Operating Base**

Smorgon'	9	9	Launch Canister	9
54 36 16 N 026 23 05 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Smorgon'  
54 29 01 N 026 26 40 E  
54 05 04 025 53 59  
54 24 14 025 31 18

54 35 27 026 19 10

**Missile Operating Base**

Smorgon'	9	9	Launch Canister	9
54 31 36 N 026 17 20 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

Missiles      Launchers      Support Structures/Equipment

**Deployment Area**

Lida  
53 45 24 N 025 29 02 E  
53 34 00 024 49 35  
53 42 25 024 38 15  
53 58 05 025 10 17

**Missile Operating Base**

Lida	9	9	Launch Canister	9
53 47 39 N 025 20 27 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Gezgaly  
53 38 53 N 025 25 38 E  
53 23 48 025 26 12  
53 12 46 025 08 38  
53 22 57 024 35 43

**Missile Operating Base**

Gezgaly	6	6	Launch Canister	6
53 32 50 N 025 16 48 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	6
			Training Missile	0

**Deployment Area**

Slonim  
52 58 15 N 025 55 42 E  
52 45 02 025 31 08  
53 04 08 025 09 00  
53 08 45 025 30 20

**Missile Operating Base**

Slonim	9	9	Launch Canister	9
52 55 54 N 025 21 59 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Ruzhany  
52 55 21 N 024 58 40 E  
52 46 32 024 48 25  
52 45 52 024 16 26  
53 07 34 024 22 14

**Missile Operating Base**

Ruzhany	6	6	Launch Canister	6
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52 49 29 N 024 45 45 E

Missile Transporter Vehicle	0
Fixed Structure for Launcher	6
Training Missile	0

**Deployment Area**

Zasimovichi

52 37 55 N 024 48 50 E

52 22 00 024 10 52

52 32 36 023 56 54

52 45 52 024 16 26

**Missile Operating Base**

Zasimovichi

6            6

Launch Canister	6
Missile Transporter Vehicle	0
Fixed Structure for Launcher	6
Training Missile	0

52 30 38 N 024 08 43 E

**Missiles            Launchers            Support Structures/Equipment**

**Deployment Area**

Mozyr'

52 05 31 N 029 13 04 E

51 39 05 029 39 31

51 42 00 029 01 30

51 52 57 028 51 32

**Missile Operating Base**

Mozyr'

9            9

Launch Canister	9
Missile Transporter Vehicle	0
Fixed Structure for Launcher	9
Training Missile	0

52 02 27 N 029 11 15 E

**Deployment Area**

Petrikov

52 16 29 N 029 03 04 E

52 08 06 028 48 40

52 08 33 028 13 37

52 27 47 028 28 17

**Missile Operating Base**

Petrikov

6            6

Launch Canister	6
Missile Transporter Vehicle	0
Fixed Structure for Launcher	6
Training Missile	0

52 10 29 N 028 34 52 E

**Deployment Area**

Zhitkovichi

52 23 40 N 028 10 31 E

52 08 35 028 10 07

52 08 55 027 14 01

52 24 01 027 14 06

**Missile Operating Base**

Zhitkovichi

6            6

Launch Canister	6
Missile Transporter Vehicle	0
Fixed Structure for Launcher Training Missile	6
Missile	0

52 11 36 N 027 48 07 E

**Deployment Area**

Rechitsa

52 26 34 N 030 21 10 E

52 05 27 030 43 26

51 47 47 030 23 27

52 13 08 030 00 53



**Missile Operating Base**

Rechitsa	6	6	Launch Canister	6
52 11 58 N 030 07 11 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	6
			Training Missile	0

**Deployment Area**

Slutsk  
 53 28 29 N 027 57 50 E  
 53 02 31 028 07 59  
 53 13 35 027 25 09  
 53 28 40 027 28 55

**Missile Operating Base**

Slutsk	9	9	Launch Canister	9
53 14 20 N 027 42 15 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Lutsk  
 51 08 14 N 025 54 51 E  
 50 50 45 025 34 49  
 51 16 24 025 16 49  
 51 20 51 025 26 59

**Missile Operating Base**

Lutsk	9	9	Launch Canister	9
50 56 07 N 025 36 26 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Lutsk  
 51 10 05 N 025 27 21 E  
 50 43 54 025 07 49  
 50 47 35 024 33 38  
 51 11 22 024 35 49

**Missile Operating Base**

Lutsk	9	9	Launch Canister	9
50 50 06 N 025 04 02 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Brody  
 50 14 00 N 025 29 11 E  
 50 00 46 025 09 30  
 50 17 32 024 41 55  
 50 22 10 024 58 33

**Missile Operating Base**

Brody	9	9	Launch Canister	9
50 06 09 N 025 12 14 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Chervonograd  
 50 41 07 N 024 33 58 E  
 50 13 10 024 38 45



50 19 02 024 11 30  
50 36 26 024 17 15

**Missile Operating Base**

Chervonograd	9	9	Launch Canister	9
50 22 45 N 024 18 16 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Slavuta  
50 18 55 N 027 03 22 E  
50 08 07 027 03 21  
50 07 59 026 16 22  
50 29 38 026 29 34

**Missile Operating Base**

Slavuta	9	9	Launch Canister	9
50 17 05 N 026 41 31 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Belokorovichi  
51 10 19 N 028 12 04 E  
50 51 05 027 51 07  
51 21 28 027 01 43  
51 21 22 027 37 54

**Missile Operating Base**

Belokorovichi	9	9	Launch Canister	9
51 10 45 N 028 03 20 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Lipniki  
51 11 38 N 029 10 28 E  
50 52 28 028 55 56  
51 05 53 028 22 14  
51 20 57 028 26 07

**Missile Operating Base**

Lipniki	9	9	Launch Canister	9
51 12 22 N 028 26 37 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Vysokaya Pech'  
50 29 13 N 028 21 10 E  
50 09 49 028 20 37  
50 10 10 027 40 19  
50 29 33 027 43 58

**Missile Operating Base**

Vysokaya Pech'	6	6	Launch Canister	6
50 10 11 N 028 16 22 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	6
			Training Missile	0

**Development Area**

Vysokaya Pech'  
 50 13 33 N 029 01 05 E  
 49 56 07 029 10 23  
 49 52 42 028 06 47  
 50 07 39 028 20 33

**Missile Operating Base**

Vysokaya Pech'	6	6	Launch Canister	6
50 05 43 N 028 22 09 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	6
			Training Missile	0

**Deployment Area**

Korosten'  
 50 54 31 N 029 02 51 E  
 50 41 34 029 02 16  
 50 42 05 028 28 20  
 50 55 01 028 28 44

**Missile Operating Base**

Korosten'	6	6	Launch Canister	6
50 52 22 N 028 31 17 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	6
			Training Missile	0

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Lebedin  
 50 35 26 N 034 41 41 E  
 50 12 10 034 00 31  
 50 14 25 033 50 28  
 50 35 42 034 21 21

**Missile Operating Base**

Lebedin	9	9	Launch Canister	9
50 33 06 N 034 26 02 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Glukhov  
 52 02 16 N 033 52 28 E  
 51 36 21 033 55 26  
 51 34 22 033 27 42  
 52 02 21 033 38 28

**Missile Operating Base**

Glukhov	9	9	Launch Canister	9
51 41 00 N 033 30 56 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Glukhov  
 51 42 59 N 033 27 47 E  
 51 23 31 033 37 56  
 51 23 37 032 56 33  
 51 43 02 033 10 25

**Missile Operating Base**

Glukhov	9	9	Launch Canister	9
51 36 44 N 033 29 17 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9

Training Missile 0

**Deployment Area**

Akhtyrka  
 50 17 58 N 034 54 32 E  
 49 49 59 034 50 05  
 50 10 03 033 57 06  
 50 18 24 034 24 13

**Missile Operating Base**

Akhtyrka	9	9	Launch Canister	9
50 16 01 N 034 49 53 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Akhtyrka  
 50 10 43 N 035 34 34 E  
 49 54 08 035 00 16  
 50 18 14 034 24 13  
 50 26 42 034 48 07

**Missile Operating Base**

Akhtyrka	9	9	Launch Canister	9
50 21 59 N 034 57 03 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Novosibirsk  
 55 51 09 N 083 52 28 E  
 55 14 33 083 49 49  
 55 21 52 083 08 41  
 55 30 29 083 09 09

**Missile Operating Base**

Novosibirsk	9	9	Launch Canister	9
55 22 05 N 083 13 52 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Novosibirsk  
 55 06 17 N 083 34 11 E  
 54 57 40 083 33 38  
 55 04 53 082 52 45  
 55 24 16 082 53 40

**Missile Operating Base**

Novosibirsk	9	9	Launch Canister	9
55 22 57 N 082 55 16 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Novosibirsk  
 55 31 47 N 084 08 57 E  
 55 13 26 082 56 55  
 55 20 01 082 49 41  
 55 40 13 084 00 42

**Missile Operating Base**

Novosibirsk 55 19 32 N 082 56 18 E	9	9	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	9 0 9 0
<b>Deployment Area</b>				
Novosibirsk 55 08 01 N 083 53 07 E 54 52 56 083 52 02 55 11 17 082 56 49 55 22 00 083 01 07				
<b>Missile Operating Base</b>				
Novosibirsk 55 18 44 N 083 01 38 E	9	9	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	9 0 9 0
<b>Deployment Area</b>				
Novosibirsk 55 03 58 N 084 18 27 E 54 53 12 084 19 10 55 04 49 082 56 30 55 22 00 083 01 07				
<b>Missile Operating Base</b>				
Novosibirsk 55 19 07 N 083 09 59 E	9	9	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	9 0 9 0
	<b>Missiles</b>	<b>Launchers</b>	<b>Support Structures/Equipment</b>	
<b>Deployment Area</b>				
Drovyanaya 51 44 02 N 113 08 33 E 51 22 28 113 07 32 51 22 49 112 46 52 51 44 16 112 54 39				
<b>Missile Operating Base</b>				
Drovyanaya 51 27 20 N 113 03 42 E	9	9	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	9 0 9 0
<b>Deployment Area</b>				
Drovyanaya 51 37 34 N 113 08 14 E 51 22 28 113 07 32 51 18 39 112 36 23 51 27 14 112 40 08				
<b>Missile Operating Base</b>				
Drovyanaya 51 26 10 N 113 02 43 E	9	9	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	9 0 9 0
<b>Deployment Area</b>				
Drovyanaya 51 24 52 N 112 53 51 E 51 20 36 112 50 13 51 18 54 112 15 44				

51 23 13 112 15 51

**Missile Operating Base**

Drovyanaya	9	9	Launch Canister	9
51 22 59 N 112 49 55 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Drovyanaya  
 51 26 54 N 113 00 50 E  
 51 18 13 113 03 54  
 51 18 47 112 26 03  
 51 29 39 112 19 29

**Missile Operating Base**

Drovyanaya	9	9	Launch Canister	9
51 20 18 N 113 00 54 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Drovyanaya  
 51 33 19 N 113 04 35 E  
 51 22 32 113 04 05  
 51 22 49 112 46 52  
 51 33 36 112 47 17

**Missiles Operating Base**

Drovyanaya	9	9	Launch Canister	9
51 23 49 N 112 52 13 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Barnaul  
 53 54 32 N 084 01 02 E  
 53 43 46 084 01 48  
 53 35 30 083 43 07  
 53 44 16 083 36 24

**Missile Operating Base**

Barnaul	9	9	Launch Canister	9
			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Barnaul  
 53 29 21 N 084 31 45 E  
 52 58 43 083 47 57  
 53 13 47 083 48 56  
 53 29 02 084 17 18

**Missile Operating Base**

Barnaul	9	9	Launch Canister	9
53 18 21 N 084 08 47 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Barnaul

53 16 38 N 084 43 16 E  
 52 59 32 084 51 20  
 52 55 09 084 47 58  
 53 16 02 084 14 31

**Missile Operating Base**

Barnaul	9	9	Launch Canister	9
53 13 29 N 084 40 10 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Barnaul  
 53 27 33 N 084 49 55 E  
 53 16 42 084 46 52  
 53 16 02 084 14 31  
 53 26 58 084 21 02

**Missile Operating Base**

Barnaul	9	9	Launch Canister	9
53 18 47 N 084 30 27 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Kansk  
 56 32 14 N 096 12 14 E  
 56 15 16 095 34 54  
 56 28 30 095 20 13  
 56 34 39 095 36 13

**Missile Operating Base**

Kansk	9	9	Launch Canister	9
56 22 31 N 095 28 35 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Kansk  
 56 30 47 N 095 12 33 E  
 56 19 53 095 19 41  
 56 13 45 094 59 58  
 56 31 03 094 56 58

**Missile Operating Base**

Kansk	9	9	Launch Canister	9
56 20 09 N 095 16 34 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Kansk  
 56 19 29 N 096 20 56 E  
 56 08 43 096 21 41  
 56 08 17 096 02 24  
 56 19 14 095 50 42

**Missile Operating Base**

Kansk	9	9	Launch Canister	9
56 11 19 N 096 03 13 E			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	9
			Training Missile	0

**Deployment Area**

Kansk

56 14 50 N 096 05 46 E

55 59 57 096 14 35

55 59 41 096 03 03

56 15 00 095 46 30

**Missile Operating Base**

56 02 19 N 096 04 58 E

9

9

Launch Canister

9

Missile Transporter Vehicle

0

Fixed Structure for Launcher

9

Training Missile

0

**(ii) SS-4**

**Deployment Area**

Sovetsk

55 05 33 N 021 52 38 E

55 03 22 021 56 20

54 57 04 021 29 58

55 01 23 021 26 16

**Missile Operating Base**

Sovetsk

54 59 07 N 021 36 36 E

5

6

(Launch  
Stand)

Missile Transporter Vehicle

1

Missile Erector

1

Fixed Structure for Launcher

7

Training Missile

5

2

6

**Deployment Area**

Gusev

54 46 02 N 022 07 07 E

54 24 14 022 28 42

54 20 01 022 21 10

54 43 58 021 55 53

**Missile Operating Base**

Gusev

54 43 59 N 022 03 27 E

5

7

(Launch  
Stand)

Missile Transporter Vehicle

1

Missile Erector

2

Fixed Structure for Launcher

7

Training Missile

5

2

7

**Missiles**

**Launchers**

**Support Structures/Equipment**

**Deployment Area**

Malorita

51 53 50 N 024 05 39 E

51 43 09 024 09 49

51 42 59 023 57 07

51 53 45 023 57 50

**Missile Operating Base**

Malorita

51 51 47 N 024 01 55 E

5

6

(Launch  
Stand)

Missile Transporter Vehicle

1

Missile Erector

4

Fixed Structure for Launcher

7

Training Missile

4

8

5

**Deployment Area**

Pinsk

52 15 03 N 025 49 43 E  
 52 04 09 025 39 30  
 52 03 56 025 22 00  
 52 14 54 025 35 40

**Missile Operating Base**

Pinsk	5	5	Missile Transporter Vehicle	1
52 10 56 N 025 41 27 E		(Launch Stand)	Missile Erector	3
			Fixed Structure for Launcher	6
			Training Missile	4
				7
				6

**Deployment Area**

Vyru  
 57 49 33 N 027 00 00 E  
 57 43 05 027 00 00  
 57 43 04 026 43 54  
 57 49 32 026 43 51

**Missile Operating Base**

Vyru	5	6	Missile Transporter Vehicle	1
57 45 47 N 026 47 13 E		(Launch Stand)	Missile Erector	1
			Fixed Structure for Launcher	5
			Training Missile	5
				1
				6

**Deployment Area**

Aluksne  
 57 25 51 N 026 56 00 E  
 57 21 32 026 56 01  
 57 17 12 026 40 06  
 57 25 49 026 40 01

**Missile Operating Base**

Aluksne	5	7	Missile Transporter Vehicle	1
57 25 04 N 026 49 46 E		(Launch Stand)	Missile Erector	2
			Fixed Structure for Launcher	6
			Training Missile	4
				5
				7

**Deployment Area**

Ostrov  
 57 38 21 N 028 20 22 E  
 57 21 04 028 23 43  
 57 21 14 028 07 47  
 57 38 28 028 08 19

**Missile Operating Base**

Ostrov	5	8	Missile Transporter Vehicle	1
57 31 53 N 028 12 19 E		(Launch Stand)	Missile Erector	2
			Fixed Structure for Launcher	7
			Training Missile	4
				8
				6

**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Karmelava  
 55 06 12 N 024 22 04 E



54 57 49 024 33 51  
 54 55 00 024 04 05  
 55 01 28 024 03 36

**Missile Operating Base**

Karmelava	5	5	Missile Transporter Vehicle	1
55 00 51 N 024 14 16 E		(Launch Stand)	Missile Erector	3
			Fixed Structure for Launcher	6
			Training Missile	4
				7
				6

**Deployment Area**

Ukmerge  
 55 17 41 N 024 59 06 E  
 55 04 25 024 40 58  
 55 08 35 024 33 12  
 55 19 43 024 51 26

**Missile Operating Base**

Ukmerge	5	6	Missile Transporter Vehicle	1
55 07 51 N 024 38 36 E		(Launch Stand)	Missile Erector	4
			Fixed Structure for Launcher	7
			Training Missile	5
				0
				6

**Deployment Area**

Taurage  
 55 18 07 N 022 30 42 E  
 55 09 30 022 30 22  
 55 03 10 022 18 52  
 55 13 35 022 21 01

**Missile Operating Base**

Taurage	5	6	Missile Transporter Vehicle	1
55 04 58 N 022 19 38 E		(Launch Stand)	Missile Erector	2
			Fixed Structure for Launcher	6
			Training Missile	4
				7
				6

**Deployment Area**

Kolomyya  
 48 45 01 N 024 55 59 E  
 48 36 23 024 56 20  
 48 36 04 024 40 04  
 48 44 42 024 39 40

**Missile Operating Base**

Kolomyya	5	6	Missile Transporter Vehicle	1
48 39 32 N 024 48 04 E		(Launch Stand)	Missile Erector	2
			Fixed Structure for Launcher	6
			Training Missile	4
				6
				7

**Development Area**

Stryy  
 49 19 59 N 023 58 46 E  
 49 11 22 023 58 29  
 49 21 09 023 31 57  
 49 29 46 023 32 24

**Missile Operating Base**

Stryg 49 25 23 N 023 34 56 E	5	7 (Launch Stand)	Missile Transporter Vehicle Missile Erector Fixed Structure for Launcher Training Missile	1 2 7 4 9 7
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**Missiles      Launchers      Support Structures/Equipment**

**Deployment Area**

Skala-Podol'skaya  
48 54 37 N 026 17 26 E  
48 48 09 026 17 32  
48 48 02 026 01 12  
48 54 30 026 01 04

**Missile Operating Base**

Skala-Podol'skaya 48 51 02 N 026 08 36 E	5	6 (Launch Stand)	Missile Transporter Vehicle Missile Erector Fixed Structure for Launcher Training Missile	1 2 6 4 6 5
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**2. Non-Deployed**

The following are missile support facilities, their locations and the numbers, for each Party of all non-deployed intermediate-range missiles listed as existing types in Article III of the Treaty, launchers of such missiles and support structures and support equipment associated with such missiles and launchers. Site diagrams for agreed missile support facilities, to include boundaries and center coordinates, are appended to this Memorandum of Understanding.

**Missiles      Launchers      Support Structures/Equipment**

**(a) UNITED STATES OF AMERICA**

**(i) Pershing II**

**Missile Production Facilities:**

Hercules Plant #1 Magna, Utah 40 39 40 N 112 03 14 W	0	0	Launch Pad Shelter Training Missile Stage	0 0
--	---	---	--	--------

**Launcher Production Facilities:**

Martin Marietta Middle River, Maryland 39 35 N 076 24 W	0	0	Launch Pad Shelter Training Missile Stage	0 0
---	---	---	--	--------

**Missile Storage Facilities:**

Pueblo Depot Activity Pueblo, Colorado 38 19 N 104 20 W	111	0	Launch Pad Shelter Training Missile Stage	0 4
Redstone Arsenal Huntsville, Alabama 34 36 N 086 38 W	1	0	Launch Pad Shelter Training Missile Stage	0 20
Weilerbach Federal Republic of Germany 49 27 N 007 38 E	12	0	Launch Pad Shelter Training Missile Stage	0 0

**Launcher Storage Facilities:**

Redstone Arsenal Huntsville, Alabama 34 35 N 086 37 W	0	1	Launch Pad Shelter Training Missile Stage	0 0
---	---	---	--	--------

	Missiles	Launchers	Support Structures/Equipment	
<b>Missile/Launcher Storage Facilities:</b>				
NONE				
<b>Missile Repair Facilities:</b>				
Pueblo Depot Activit	0	0	Launch Pad Shelter	0
Pueblo, Colorado			Training Missile Stage	0
38 18 N 104 19 W				
<b>Launcher Repair Facilities:</b>				
EMC Hausen, Frankfurt	0	0	Launch Pad Shelter	0
Federal Republic of Germany			Training Missile Stage	0
50 08 N 008 38 E				
Redstone Arsenal	0	10	Launch Pad Shelter	
Huntsville, Alabama			Training Missile Stage	0
34 37 N 086 38 W				0
Ft. Sill	0	2	Launch Pad Shelter	0
Ft. Sill, Oklahoma			Training Missile Stage	0
34 40 N 098 24 W				
Pueblo Depot Activity	0	0	Launch Pad Shelter	0
Pueblo, Colorado			Training Missile Stage	0
38 19 N 104 20 W				
<b>Missile/Launcher Repair Facilities:</b>				
NONE				
<b>Test Ranges:</b>				
Complex 16	3	0	Launch Pad Shelter	0
Cape Canaveral, Florida			Training Missile Stage	0
28 29 N 080 34 W				
<b>Training Facilities:</b>				
Ft. Sill	0	39	Launch Pad Shelter	0
Ft. Sill, Oklahoma			Training Missile Stage	78
34 41 N 098 34W				
<b>Elimination Facilities:</b>				
(Not determined)				
<b>Missiles, Launchers, and Support Equipment in Transit:</b>	0	0	Training Missile Stage	4
<b>(ii) BGM-109G</b>				
<b>Missile Production Facilities:</b>				
McDonnell-Douglas	52	0	Training Missile	0
Titusville, Florida	with		Training Launch Canister	0
28 32 N 080 40 W	launch			
	canister			
General Dynamics	48	0	Training Missile	00
Kearney Mesa, California	with		Training Launch Canister	
32 50 N 117 08 W	launch			
	canister			
<b>Launcher Production Facilities:</b>				
Air Force Plant 19	2	4	Training Missile	0
San Diego, California	with		Training Launch Canister	0
32 45 N 117 12 W	launch			
	canister			
<b>Missile Storage Facilities:</b>				

NONE

Missiles      Launchers      Support Structures/Equipment

**Launcher Storage Facilities:**

NONE

**Missile/Launcher Storage Facilities:**

NONE

**Missile Repair Facilities:**

SABCA

Gosselies, Belgium  
50 27 N 004 27 E

16  
with  
launch  
canister

0

Training Missile  
Training Launch Canister

0

0

**Launcher Repair Facilities:**

NONE

**Missile/Launcher Repair Facilities:**

NONE

**Test Ranges:**

Dugway Proving Grounds,  
Utah  
40 22 N 113 04 W

0  
with  
launch  
canister

0

Training Missile  
Training Launch Canister

0

0

**Training Facilities:**

Davis-Monthan AFB  
Tucson, Arizona  
32 11 N 110 53 W

0  
with  
launch  
canister

7

Training Missile  
Training Launch Canister

2

27

Ft. Huachuca  
Ft. Huachuca, Arizona  
31 29 N 110 19 W

0  
with  
launch  
canister

6

Training Missile  
Training Launch Canister

0

8

**Elimination Facilities:**

(Not determined)

**Missiles, Launchers, and Support Equipment  
in Transit:**

15  
with  
launch  
canister

0

Training Missile  
Training Launch Canister

0

2

**(b) UNION OF SOVIET SOCIALIST  
REPUBLICS**

**(i) SS-20**

**Missile Production Facilities:**

Votkinsk Machine Building Plant  
Udmurt ASSR, RSFSR  
57 01 30 N 054 08 00 E

36\*

0

Launch Canister  
Missile Transporter Vehicle  
Fixed Structure for Launcher  
Training Missile

36

0

0

0

**Launcher Production Facilities:**

Barrikady Plant  
Volgograd  
48 44 N 044 32 E

0

1

Launch Canister  
Missile Transporter Vehicle  
Fixed Structure for Launcher  
Training Missile

0

0

0

0

\* In various stages of manufacture.

	Missiles	Launchers	Support Structures/Equipment	
<b>Missile Storage Facilities:</b>				
NONE				
<b>Launcher Storage Facilities:</b>				
NONE				
<b>Missile/Launcher Storage Facilities:</b>				
Postavy 55 10 N 026 55 E	2	3	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	3 10 0 1
Gezgaly 53 36 N 025 28 E	2	2	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	6 10 0 4
Mozyr' 52 03 N 029 11 E	2	2	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	4 10 0 2
Lutsk 50 53 N 025 30 E	1	1	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	3 10 0 2
Belokorovichi 51 09 N 028 00 E	2	2	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	4 10 0 2
Lebedin 50 36 N 034 25 E	2	1	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	5 10 0 3
Novosibirsk 55 16 N 083 02 E	1	1	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	3 10 0 2
Drovyanaya 51 30 N 113 03 E	2	2	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	4 10 0 2
Kansk 56 16 N 095 39 E	1	1	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	2 1 0 1
Barnaul 53 34 N 083 48 E	1	1	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher Training Missile	1 3 0 0
Kolosovo 53 31N 026 55 E	144	0	Launch Canister Missile Transporter Vehicle Fixed Structure for Launcher	14 4 0

			Training Missile	0
				0
Zherebkovo 47 51 N 029 54 E	20	0	Launch Canister	21
			Missile Transporter Vehicle	2
			Fixed Structure for Launcher	0
			Training Missile	1
	<b>Missiles</b>	<b>Launchers</b>	<b>Support Structures/Equipment</b>	
<b>Missile Repair Facilities:</b>				
NONE				
<b>Launcher Repair Facilities:</b>				
NONE				
<b>Missile/Launcher Repair Facilities:</b>				
Bataysk 47 08 N 039 47 E	0	11	Launch Canister	2
			Missile Transporter Vehicle	4
			Fixed Structure for Launcher	0
			Training Missile	2
<b>Test Ranges:</b>				
Kapustin Yar 48 37 N 046 18 E	0	11	Launch Canister	0
			Missile Transporter Vehicle	3
			Fixed Structure for Launcher	1
			Training Missile	0
<b>Training Facilities:</b>				
Serpukhov 54 54 N 037 28 E	2	2	Launch Canister	4
			Missile Transporter Vehicle	1
			Fixed Structure for Launcher	0
			Training Missile	4
Krasnodar 45 03 N 038 58 E	0	1	Launch Canister	2
			Missile Transporter Vehicle	1
			Fixed Structure for Launcher	0
			Training Missile	2
Training Center at Test Range Kapustin Yar 48 38 N 046 10 E	0	7	Launch Canister	12
			Missile Transporter Vehicle	1
			Fixed Structure for Launcher	3
			Training Missile	12
<b>Elimination Facilities:</b>				
Sarny 51 21 N 026 35 E	29	68	Launch Canister	32
			Missile Transporter Vehicle	35
			Fixed Structure for Launcher	0
			Training Missile	3
Aral'sk 46 50 N 61 18 E	0	0	Launch Canister	0
			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	0
			Training Missile	0
Chita 52 22 N 113 17 E	0	0	Launch Canister	0
			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	0
			Training Missile	0
Kansk 56 20 N 095 06 E	0	0	Launch Canister	0
			Missile Transporter Vehicle	0
			Fixed Structure for Launcher	0
			Training Missile	0

**Missiles, Launchers, and Support Equipment  
in Transit:**

NONE

**(ii) SS-4**

**Missile Production Facilities:**

NONE

**Launcher Production Facilities:**

NONE

**Missiles      Launchers      Support Structures/Equipment**

**Missile Storage Facilities:**

NONE

**Launcher Storage Facilities:**

NONE

**Missile/Launcher Storage Facilities:**

Kolosovo 53 31 N 026 55 E	35	1 (Launch Stand)	Missile Transporter Vehicle Missile Erector Propellant Tank Training Missile	9 10 59 31
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Zherebkovo 47 51 N 029 54 E	56	3 (Launch Stand)	Missile Transporter Vehicle Missile Erector Propellant Tank Training Missile	5 4 11 30
--------------------------------	----	------------------------	---	--------------------

**Missile Repair Facilities:**

Bataysk 47 08 N 039 47 E	0	0 (Launch Stand)	Missile Transporter Vehicle Missile Erector Propellant Tank Training Missile	0 0 0 6
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**Launch Repair Facilities:**

NONE

**Missile/Launcher Repair Facilities:**

NONE

**Test Ranges:**

Kapustin Yar 48 35 N 046 18 E	14	2 (Launch Stand)	Missile Transporter Vehicle Missile Erector Propellant Tank Training Missile	4 2 4 1
----------------------------------	----	------------------------	---	------------------

**Training Facilities:**

NONE

**Elimination Facilities:**

Lesnaya 52 59 N 025 46 E	0	0 (Launch Stand)	Missile Transporter Vehicle Missile Erector Propellant Tank Training Missile	0 0 0 0
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**Missiles, Launchers, and Support Equipment  
in Transit:**NONE

**(iii) SS-5**

**Missile Production Facilities**

NONE

**Launcher Production Facilities:**

NONE

**Missile Storage Facilities:**

Kolosovo	6	0
53 31 N 026 55 E		

**Launcher Storage Facilities:**

NONE

**Missile/Launcher Storage Facilities:**

NONE

Missiles	Launchers	Support Structures/Equipment
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**Missile Repair Facilities:**

NONE

**Launcher Repair Facilities:**

NONE

**Missile/Launcher Repair Facilities:**

NONE

**Test Ranges:**

NONE

**Training Facilities:**

NONE

**Elimination Facilities:**

Lesnaya	0	0
52 59 N 025 46 E		

**Missiles, Launchers, and Support Equipment in Transit:**

NONE

**3. Training Launchers**

In addition to the support equipment listed in paragraphs 1 and 2 of this Section, the Parties possess vehicles, used to train drivers of launchers of intermediate-range missiles, which shall be considered for purposes of this Treaty to be training launchers. The number of such vehicles for each Party is:

- (a) for the United States of America-29; and
- (b) for the Union of Soviet Socialist Republics-65.

Elimination of such vehicles shall be carried out in accordance with procedures set forth in the Protocol on Elimination.

**IV. Shorter-Range Missiles, Launchers of Such Missiles and Support Equipment Associated With Such Missiles and Launchers**

**1. Deployed**

The following are the missile operating bases, their locations and the numbers, for each Party, of all deployed shorter-range missiles listed as existing types in Article III of the Treaty, and launchers of such missiles, and the support equipment associated with such missiles and launchers. Site diagrams, to include boundaries and center coordinates, of each listed missile operating base are appended to this Memorandum of Understanding.

Missiles	Launchers	Support Equipment
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**(a) UNITED STATES OF AMERICA**

**(i) Pershing IA**

**Missile Operating Base**



NONE

**(b) UNION OF SOVIET SOCIALIST REPUBLICS**

**(i) SS-12**

**Missile Operating Bases:**

Koenigsbrueck German Democratic Republic 51 16 40 N 013 53 20 E	19	11	Missile Transporter Vehicle Training Missile	9 1 0
Bischofswerda German Democratic Republic 51 08 33 N 014 12 18 E	8	5	Missile Transporter Vehicle Training Missile	0 4
Waren German Democratic Republic 53 32 40 N 012 37 30 E	22	12	Missile Transporter Vehicle Training Missile	9 7
Wokuhl German Democratic Republic 53 16 20 N 013 15 50 E	5	6	Missile Transporter Vehicle Training Missile	0 7
Hranice Czechoslovak Socialist Republic 49 33 00 N 017 45 00 E	39	24	Missile Transporter Vehicle Training Missile	1 5 1 3
Pashino 55 16 37 N 082 59 42 E	0	4	Missile Transporter Vehicle Training Missile	1 5
Gornyy 51 33 10 N 113 01 30 E	36	14	Missile Transporter Vehicle Training Missile	4 1 0
Lapichi 53 25 30 N 028 30 00 E	9	5	Missile Transporter Vehicle Training Missile	1 1 0
Kattakurgan 39 38 18 N 065 58 40 E	9	5	Missile Transporter Vehicle Training Missile	1 6
Saryozek 44 31 58 N 077 46 20 E	36	15	Missile Transporter Vehicle Training Missile	3 1 6
Novosysoyevka 44 11 58 N 133 26 05 E	37	14	Missile Transporter Vehicle Training Missile	5 1 7

**Missiles    Launchers    Support Equipment**

**(ii) SS-23**

**Missile Operating Bases:**

Weissenfels German Democratic Republic 51 11 50 N 011 59 50 E	6	4	Missile Transporter Vehicle Training Missile	3 1 8
Jena-Forst German Democratic Republic 50 54 55 N 011 32 40 E	47	12	Missile Transporter Vehicle Training Missile	8 3
Stan'kovo 53 38 30 N 027 13 20 E	40	18	Missile Transporter Vehicle Training Missile	1 8

				1
				0
Tsel' 53 23 38 N 028 28 06 E	26	12	Missile Transporter Vehicle Training Missile	1 1 9
Slobudka 52 30 30 N 024 31 30 E	37	14	Missile Transporter Vehicle Training Missile	5 1 7
Bayram-Ali 37 36 18 N 062 10 40 E	0	12	Missile Transporter Vehicle Training Missile	1 2 0
Semipalatinsk 50 23 00 N 080 09 30 E	22	12	Missile Transporter Vehicle Training Missile	1 2 4

## 2. Non-Deployed

The following are missile support facilities, their locations and the numbers, for each Party of all non-deployed shorter-range missiles listed as existing types in Article III of the Treaty, and launchers of such missiles and support equipment associated with such missiles and launchers. Site diagrams for agreed missile support facilities, to include boundaries and center coordinates, are appended to this Memorandum of Understanding.

### Missiles Launchers Support Equipment

#### (a) UNITED STATES OF AMERICA

##### (i) Pershing IA

##### <Missile Production Facilities:

Longhorn Army Ammunition Plant Marshall, Texas 32 39 N 094 08 W	0	0	Training Missile Stage	0
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##### Launcher Production Facilities:

Martin Marietta Middle River, Maryland 39 35 N 076 24 W	0	0	Training Missile Stage	0
---	---	---	------------------------	---

##### Missile Storage Facilities:

Pueblo Depot Activity Pueblo, Colorado 38 19 N 104 20 W	169	0	Training Missile Stage	5 3
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##### Launcher Storage Facilities:

NONE

##### Missile/Launcher Storage Facilities:

NONE

##### Missile Repair Facilities:

NONE

### Missiles Launchers Support Equipment

##### Launch Repair Facilities:

Pueblo Depot Activity Pueblo, Colorado 38 19 N 104 20 W	0	1	Training Missile Stage	0
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##### Missile/Launcher Repair Facilities:

NONE

**Test Ranges:**

NONE

**Training Facilities:**

NONE

**Elimination Facilities:**

(Not determined)

<b>Missiles, Launchers, and Support Equipment in Transit:</b>	1	0>	Training Missile Stage	0
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**(b) UNION OF SOVIET SOCIALIST REPUBLICS**

**(i) SS-12**

**Missile Production Facilities:**

Votkinsk Machine Building Plant	0	0	Missile Transporter Vehicle	0
Udmurt ASSR, RSFSR			Training Missile	0
57 01 30 N 054 08 00 E				

**Launcher Production Facilities:**

Barrikady Plant	0	0	Missile Transporter Vehicle	0
Volgograd			Training Missile	0
48 44 N 044 32 E				

**Missile Storage Facilities:**

Lozovaya	126	0	Missile Transporter Vehicle	0
48 55 N 036 22 E			Training Missile	1
				2

Ladushkin	72	0	Missile Transporter Vehicle	0
54 35 N 020 12 E			Training Missile	1
				8

Bronnaya Gora	170	0	Missile Transporter Vehicle	0
52 37 N 025 04 E			Training Missile	3

Balkhash	138	0	Missile Transporter Vehicle	0
46 50 N 075 36 E			Training Missile	4
				7

**Launcher Storage Facilities:**

Berezovka	0	15	Missile Transporter Vehicle	1
50 20 N 028 26 E			Training Missile	0
				0

**Missile/Launcher Storage Facilities:**

NONE

**Missile Repair Facilities:**

NONE

**Launcher Repair Facilities:**

NONE

**Missile/Launcher Repair Facilities:**

NONE

**Missiles   Launchers   Support Equipment**

**Test Ranges:**

NONE

**Training Facilities:**

Saratov 51 34 N 046 01 E	0	3	Missile Transporter Vehicle	2
			Training Missile	0

Kazan' 55 58 N 049 11 E	0	2	Missile Transporter Vehicle	2
			Training Missile	0

Kamenka 53 11 N 044 04 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0

**Elimination Facilities:**

Saryozek (Missiles) 44 32 N 077 46 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0

Stan'kovo (Launchers and Missile Transporter Vehicles) 53 38 N 027 13 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0

**Missiles, Launchers, and Support Equipment in Transit:**

NONE

**(ii) SS-23**

**Missile Production Facilities:**

Votkinsk Machine Building Plant Udmurt ASSR, RSFSR 57 01 30 N 054 08 00 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0

**Launcher Production Facilities:**

V.I. Lenin Petropavlovsk Heavy Machine Building Plant Petropavlovsk 54 51 N 069 09 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0

**Missile Storage Facilities:**

Ladushkin 54 35 N 020 12 E	33	0	Missile Transporter Vehicle	0
			Training Missile	4
				2

**Launcher Storage Facilities:**

Berezovka 50 20 N 028 26 E	0	13	Missile Transporter Vehicle	5
			Training Missile	0

**Missile/Launcher Storage Facilities:**

NONE

**Missile Repair Facilities:**

NONE

**Launcher Repair Facilities:**

NONE

**Missile/Launcher Repair Facilities:**

NONE

**Test Ranges:**

NONE

**Missiles Launchers Support Equipment**

**Training Facilities:**

Saratov 51 34 N 046 01 E	0	3	Missile Transporter Vehicle	2
			Training Missile	0

Kazan' 55 58 N 049 11 E	0	3	Missile Transporter Vehicle	2
			Training Missile	0

Kamenka 53 11 N 044 04 E	0	1	Missile Transporter Vehicle	1
			Training Missile	0
<b>Elimination Facilities:</b>				
Saryozek (Missiles) 44 32 N 077 46 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0
Stan'kovo (Launchers and Missile Transporter Vehicles) 53 38 N 027 13 E	0	0	Missile Transporter Vehicle	0
			Training Missile	0

**Missiles, Launchers, and Support Equipment in Transit:**  
NONE

**V. Missile Systems Tested, But Not Deployed, Prior to Entry into Force of the Treaty**

The following are the missile support facilities, their locations and the numbers, for each Party of all intermediate-range and shorter-range missiles, and launchers of such missiles, which were tested prior to entry into force of the Treaty, but were never deployed, and which are not existing types of intermediate-range or shorter-range missiles listed in Article III of the Treaty. Site diagrams for agreed missile support facilities, to include boundaries and center coordinates, are appended to this Memorandum of Understanding.

**Missiles   Launchers   Support Equipment**

**(a) UNITED STATES OF AMERICA**

**(i) Pershing IB**

**Missile Production Facilities:**  
NONE

**Launcher Production Facilities:**  
NONE

**Missile Storage Facilities:**  
NONE

**Launcher Storage Facilities:**  
NONE

**Missile/Launcher Storage Facilities:**  
NONE

**Missile Repair Facilities:**  
NONE

**Launch Repair Facilities:**  
NONE

**Missile/Launcher Repair Facilities:**  
NONE

**Missiles   Launchers   Support Equipment**

**Test Ranges:**  
NONE

**Training Facilities:**  
NONE

**Elimination Facilities:**  
NONE

**Missile, Launchers, and Support Equipment in Transit:**

NONE

**(b) UNION OF SOVIET SOCIALIST REPUBLICS**

**(i) SSC-X-4**

**Missile Production Facilities:**

NONE

**Launcher Production Facilities:**

Experimental Plant of the Amalgamated Production with Works "M.I. Kalinin Machine Building Plant" Sverdlovsk 56 47 24 N 060 47 03 E	0 with launch canister	0
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**Missile Storage Facilities:**

NONE

**Launcher Storage Facilities:**

NONE

**Missile/Launcher Storage Facilities:**

Jelgava 56 40 N 024 06 E	84 with launch canister	6
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**Missile Repair Facilities:**

NONE

**Launcher Repair Facilities:**

NONE

**Missile/Launcher Repair Facilities:**

NONE

**Test Ranges:**

NONE

**Training Facilities:**

NONE

**Elimination Facilities:**

Jelgava 56 40 N 024 06 E	0 with launch canister	0
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**Missiles, Launchers, and Support Equipment  
in Transit:**

NONE

**VI. Technical Data**

Following are agreed categories of technical data for missiles and launchers subject to the Treaty, support structures and support equipment associated with such missiles and launchers and the relevant data for each of these categories. Photographs of missiles, launchers, support structures and support equipment listed below are appended to this Memorandum of Understanding.

<b>P-II</b>	<b>BGM-109G</b>	<b>SS-20</b>	<b>SS-4</b>	<b>SS-5</b>	<b>SSC-X-4</b>
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**1. Intermediate-Range Missiles**

**(a) Missile Characteristics:**

(i) Maximum number of warheads per missile	1	1	3	1	1	1
(ii) Length of missile, with front section (meters)	10.6	6.40	16.49	22.7	24.3	8.09
	1			7	0	
(iii) Length of	3.68	-	8.58	18.6	21.6	-
1st stage (meters)	2.47	-	4.60	0	2	-
2nd stage (meters)				-	-	
(iv) Maximum diameter of	-	0.53	-	1.65	2.40	0.51
1st stage (meters)	1.02	-	1.79	-	-	-
2nd stage (meters)	1.02	-	1.47	-	-	-
(v) Weight of GLBM, in metric tons (without front section; for liquid-fueled missiles, empty weight)	6.78	-	-	3.35	4.99	-
1st stage	4.15	-	26.63	-	-	-
2nd stage	2.63	-	8.63	-	-	-
Missile in canister	-	-	42.70	-	-	-
(vi) Weight of assembled GLCM, in metric tons (with fuel)						
In canister	-	1.71	-	-	-	2.44
Without canister	-	1.47	-	-	-	1.70
<b>(b) Launcher Characteristics:</b>						
(i) Dimensions (maximum length, width, height in meters)	9.60	10.64	16.81	3.02	-	12.80
	2.49	2.44	3.20	3.02	-	3.05
	2.86	2.64	2.94	3.27	-	3.80
(ii) Maximum number of missiles each launcher is capable of carrying or containing at one time	1	4	1	1	-	6
(iii) Weight (in metric tons)	12.0	14.30	40.25	6.90	-	29.10
	4					
<b>(c) Characteristics of Support Structures Associated With Such Missiles and Launchers</b>						
Dimensions of support structures are as follows (maximum length, width, height in meters):						
(i) Fixed structure for a launcher	-	-	27.70	-	-	-
			9.07			
			6.82			
(ii) Launch pad shelter	74.0	-	-	-	-	-
	0					
	14.6					
	0					
	10.0					
	0					
<b>(c) Characteristics of Support Structures Associated With Such Missiles and Launchers</b>						
Dimensions of support structures are as follows (maximum length, width, height in meters):						
(i) Launch canister (Diameter)	-	6.94	19.32	-	-	8.39
	-	0.53	2.14	-	-	0.65
	<b>P-II</b>	<b>BGM-109G</b>	<b>SS-20</b>	<b>SS-4</b>	<b>SS-5</b>	<b>SSC-X-4</b>
(ii) Missile transporter vehicle (number of missiles per vehicle)	-	-	17.33	22.8	-	
			3.20	5	-	
			2.90	2.72		





**Launchers**

**1. Research and Development Launch Sites**

**(a) UNITED STATES OF AMERICA**

Eastern Test Range, Florida 28 27 N 080 42 W	1
Eglin AFB, Florida 30 36 N 086 48 W	5
White Sands Missile Range, New Mexico 32 30 N 106 30 W	4
Green River, Utah 38 00 N 109 30 W	2
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

FOR THE UNION OF  
SOVIET  
SOCIALIST REPUBLICS

Mikhail Gorbachev



President of the United States of America

General Secretary of the  
Central Committee of the  
CPSU