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MEMORANDUM OF UNDERSTANDING
REGARDING THE ESTABLISHMENT OF THE DATA BASE FOR 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

DECEMBER 1987

MEMORANDUM OF UNDERSTANDING
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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 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 flighttesting 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.
- nobile 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:

	<u>USA</u>	<u>USSR</u>
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	170	539
Aggregate number of deployed and non-deployed missiles	170	926
Aggregate number of second stages	175	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 Declassified and Approved For Release 2013/09/11: CIA-RDP91B00390R000500560030-1

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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.

Support
Structures
Missiles Launchers and 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	40 (includes 4 spares)	36	Launch Pad Shelter - 0 Training Missile Stage - 24
48 48 54 N 009 48 29	E		-
Neu Ulm	40 (includes 4 spares)	43 (includes 7 spares)	Launch Pad Shelter - 0 Training Missile Stage - 24
48 22 40 N 010 00 45	E		
Waldheide-Neckarsulm	40 (includes 4 spares)	36	Launch Pad Shelter - 0 Training Missile Stage - 24
49 07 45 N 009 16 31	E		

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Support Structures and Equipment Launchers Missiles

BGM-109G (ii)

# 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	101 with launch canister	29 (includes 5 spares)	Training Missile Training	: -	0
•	(includes 5 spares)	•.	Launch Canister	_	7

001 18 12 W 51 22 35 N

## 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.

# Missile Operating Base

Molesworth	18* with launch	6 <b>*</b>	Training Missile
	canister		Training Launch
52 23 00 N 000	25 35 W		Canister

\*In preparation for operational status.

Support Structures and Equipment Launchers Missiles

#### 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		108 with launch canister	31 (includes 7 spares)	Training Missile Training	-	0
	i	(includes 12 spares)		Launch Canister	_	7

014 36 34 E 36 59 44 N

# Deployment Area

The Kingdom of Belgium

Boundaries:

The territory of The Kingdom of Belgium.

# Missile Operating Base

Florennes	20 with launch canister	12 (includes 8 spares)	Training Missile Training	-	0
•	(includes 4 spares)		Launch Canister	_	7

004 39 00 E 50 13 35 N

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Structures and Equipment

<u>Missiles</u>

Launchers

#### 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	62 with launch canister	31 (includes 9 spares)	Training Missile Training	-	1
	(includes 14 spares)		Launch Canister	-	10

50 02 33 N 007 25 06 E

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

- (b) UNION OF SOVIET SOCIALIST REPUBLICS
- (i) SS-20

#### Deployment Area

#### Postavy

55	12	13	N	027	00	00	Ε
54	52	47		026	41	18	
54	43	58		026	04	.07	
55	Λ1	12		026	በ3	43	

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		<u>Missiles</u>	Launchers	Support Structures and Equipment
Missile Operat:	ing Base			
Postavy 55 09 47 N	026 54 2	9 1 E	. 9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training
				Missile - 0
Deployment Are	<u>a</u>			
Vetrino				
55 28 44 N 55 01 03 55 01 16 55 16 22	028 42 2 028 15 0 027 48 4 027 49 0	16		
Missile Operat	ing Base		•.	
Vetrino		9	9	Launch Canister - 9 Missile Transporter
55 24 19 N	028 33 2	29 <b>E</b>		Vehicle - 0 Fixed Structure for Launcher - 9
				Training Missile - 0
Deployment Are	<u>:a</u>			
Polotsk		e.		
55 37 36 N 55 28 07 54 32 15 54 39 32	028 23 029 20 029 09 028 10	25 47		
Missile Operat	ing Base			
Polotsk		9	9	Launch Canister - 9
55 22 34 N	028 44	17 E		Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training

Missile - On Declassified and Approved For Release 2013/09/11 : CIA-RDP91B00390R000500560030-1

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		Missiles	Launchers	Support Structures and Equipment
Deployment Area				
Smorgon'	٠.			
· ·	026 52 24			
54 37 43 N 54 22 37 54 37 18 54 45 21	026 52 34 026 52 37 025 41 58 026 15 13			
Missile Operati	ng 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
*		ž.		
Deployment Area			:	
Smorgon'				•
54 29 01 N 54 05 04 54 24 14	026 26 40 025 53 59 025 31 18	) }		
54.35 27	026 19 10			
Missile Operati	ng 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
. •			•	

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		<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Lida				,
53 45 24 N 53 34 00 53 42 25 53 58 05	025 29 02 024 49 35 024 38 15 025 10 17	E		
Missile Operati	ng Base	,		
Lida 53 47 39 N	025 20 27	9 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
Deployment Area				
Gezgaly  53 38 53 N 53 23 48 53 12 46 53 22 57  Missile Operation	025 25 38 025 26 12 025 08 38 024 35 43			
	Ing base	6	6	Launch
Gezgaly 53 32 50 N	025 16 48	·		Canister - Missile Trans: : er Vehicle - Fixed Structure for Launcher 6 Training Missile -

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		<u>Missiles</u>	<u>Launchers</u>	Support Structures and Equipment
•				
Deployment Area				
Slonim				
52 58 15 N 52 45 02 53 04 08 53 08 45	025 55 4 025 31 0 025 09 0 025 30	08 00		
Missile Operatin				· · · · · · · · · · · · · · · · · · ·
	ig base	÷	2	Launch
Slonim 52 55 54 N	025 21	9 59 E	9	Canister - 9 Missile Transporter Vehicle - 0
•				Fixed Structure for Launcher - 9 Training Missile - 0
Deployment Area				
Ruzhany				
52 55 21 N 52 46 32 52 45 52 53 07 34	024 58 024 48 024 16 024 22	25 26		
Missile Operati	ng Base			
Ruzhany 52 49 29 N	024 45	6 45 E	6	Launch Canister Missile Transporter Vehicle - 0
				Fixed Structure for Launcher - 6 Training Missile - 0

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		Missiles	Launchers	Support Structures and Equipment
Deployment Area				
Zasimovichi				
52 37 55 N 52 22 00 52 32 36 52 45 52	024 48 50 024 10 52 023 56 54 024 16 26			
Missile Operation	ng Base		•	
Zasimovichi		6	6	Launch Canister - 6
52 30 38 N	024 08 43	3 E		Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 6 Training Missile - 0
Deployment Area				
Mozyr'				
52 05 31 N 51 39 05 51 42 00 51 52 57	029 13 0 029 39 3 029 01 3 028 51 3	1 0		
Missile Operati	ng Base			
Mozyr' 52 02 27 N	029 11 1	9 5 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0

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		<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area	•			
Petrikov				
52 16 29 N 52 08 06 52 08 33 52 27 47	029 03 028 48 028 13 028 28	40 37		
Missile Operati	ng Base			
Petrikov 52 10 29 N	028 34	6 52 E	6	Launch Canister - 6 Missile Transporter Vehicle - 0 Fixed Structure
•			•	for Launcher - 6 Training Missile - 0
Deployment Area		e e e e e e e e e e e e e e e e e e e		
Zhitkovichi				
52 23 40 N 52 08 35 52 08 55 52 24 01	028 10 028 10 027 14 027 14	07 01		
Missile Operati	ng Base			
Zhitkovichi 52 ll 36 N	027 48	6 07 E	6	Launch Canister - 6 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 6 Training Missile - 0

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		<u>Missiles</u>	Launchers	Support Structures and Equipment		
Deployment Area						
Rechitsa		•				
52 26 34 N 52 05 27 51 47 47 52 13 08	030 21 10 030 43 26 030 23 27 030 00 53	E	•			
Missile Operati	ng Base					
Rechitsa 52 11 58 N	030 07 11	6 E	6	Launch Canister - 6 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 6 Training Missile - 0		
Deployment Area	L					
Slutsk						
53 28 29 N 53 02 31 53 13 35 53 28 40	027 57 50 028 07 59 027 25 09 027 28 55					
Missile Operating Base						
Slutsk 53 14 20 N	027 42 15	9 5 <b>E</b>	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0		

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<u>Miss</u>	iles	<u>Launchers</u>	Support Structures and 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 – J
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
50 50 06 N 025 04 02 E			Missile Tr Vehicle
			Fixed Structure 9
			Training Missile

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	2	<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Brody				
50 14 00 N 50 00 46 50 17 32 50 22 10	025 29 11 B 025 09 30 024 41 55 024 58 33	E		
Missile Operatir	ng Base			
Brody 50 06 09 N	025 12 14	9 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure
	•	·		for Launcher - 9 Training Missile - 0
Deployment Area				
Chervonograd				
50 41 07 N 50 13 10 50 19 02 50 36 26	024 33 58 024 38 45 024 11 30 024 17 15	E		
Missile Operati	ng Base			
Chervonograd		9	9	Launch Canister - 9
50 22 45 N	024 18 16			Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0

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	<u>Mis</u>	siles	Launchers	Support Structures and Equipment
Deployment Area			·	
Slavuta				
50 18 55 N 50 08 07 50 07 59 50 29 38	027 03 22 E 027 03 21 026 16 22 026 29 34			
Missile Operation	ng Base			
Slavuta		9	9	Launch Canister - 9 Missile Transporter
50 17 05 N	026 41 31 E			Vehicle - 0  Fixed Structure  for Launcher - 9  Training  Missile - 0
Deployment Area				
Belokorovichi				
51 10 19 N 50 51 05 51 21 28 51 21 22	028 12 04 E 027 51 07 027 01 43 027 37 54			
Missile Operati	ing 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

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	Mis	siles	Launchers	Support Structures and Equipment
Deployment Area		. ,		
Lipniki				•
51 11 38 N 50 52 28 51 05 53 51 20 57	029 10 28 E 028 55 56 028 22 14 028 26 07			
Missile Operation	ng Base			
Lipniki 51 12 22 N	028 26 37 E	9	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
Deployment Area				
Vysokaya Pech'				
50 29 13 N 50 09 49 50 10 10 50 29 33	028 21 10 E 028 20 37 027 40 19 027 43 58			
Missile Operati	ng Base			
Vysokaya Pech' 50 10 11 N	028 16 22 E	6	6	Launch Canister - 6 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 6 Training Missile - 0
	,			

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		<u>Missiles</u>	<u>Launchers</u>	Support Structures and Equipment
Deployment Area	1.			
Vysokaya Pech'				
50 13 33 N	029 01 05			
49 56 07 49 52 42	029 10 23 028 06 47			
50 07 39	028 20 33	1		
Missile Operati	ng Base			
Vysokaya Pech'		6	. 6	Launch Canister - 6
50 05 43 N	028 22 09	9. <b>E</b>		Missile Transporter
	•			Vehicle - 0 Fixed Structure
•				for Launcher - 6 Training
				Missile - 0
		· .		
Deployment Area	•			
Korosten'				
50 54 31 N	029 02 53	l E		
50 41 34 50 42 05	029 02 10 028 28 20			
50 55 01	028 28 42		•	
Missile Operati	ng Base			
Korosten'		6	. 6	Launch
50 52 22 N	028 31 1	7 F		Canister - 6 Missile Transporte:
JU JZ ZZ N	020 01 1	. <del></del>		Vehicle - 0 Fixed Structure
·			•	for Launcher - 6
				Training Missile – 0

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	<u>Mi</u>	<u>ssiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Lebedin				
50 35 26 N 50 12 10 50 14 25 50 35 42	034 41 41 E 034 00 31 033 50 28 034 21 21			
Missile Operati	ng Base			
Lebedin		9	9	Launch Canister - 9
50 33 06 N	034 26 02 E			Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 3 Training
			•	Missile - 0
Deployment Area	<b>a</b> .			
Glukhov				
52 02 16 N 51 36 21 51 34 22 52 02 21	033 52 28 E 033 55 26 033 27 42 033 38 28			
Missile Operat	ing Base			
Glukhov		9	9	Launch Canister - '
51 41 00 N	033 30 56 E			Missile Transperior Vehicle - 0 Fixed Structure for Launcher Training Missile - 0

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		Missil	e <u>s</u>	Launchers	Support Structures and Equipment
Deployment Area	-				
Deptoyment move					
Glukhov					
51 42 59 N 51 23 31 51 23 37 51 43 02	033 27 47 033 37 56 032 56 33 033 10 25	5 3			
Missile Operati	ng Base				
Glukhov 51 36 44 N	033 29 1	9 7 E		9	Launch Canister - 9 Missile Transporter Vehicle - 0
					Fixed Structure for Launcher - 9 Training Missile - 0
Deployment Area	1				
Akhtyrka					
50 17 58 N 49 49 59 50 10 03 50 18 24	034 54 3 034 50 0 033 57 0 034 24 3	) 5 ) 6			
Missile Operat	ing Base				
Akhtyrka 50 16 01 N	034 49 5	9 5 <b>3 E</b>		9	Launch Canister - 3 Missile Transport Vehicle - 0 Fixed Structure for Launcher - 9 Training
:					Missile - 0
*				and the second s	

Support

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		Missiles	Launchers	Structures and Equipment
Deployment Area				
Akhtyrka			•	
49 54 08 035 50 18 24 034	34 34 00 16 24 13 48 07	6 3		
Missile Operating B	ase			
Akhtyrka		9	9	Launch Canister - 9
50 21 59 N 034	57 03	3 E		Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
				missile - 0
Deployment Area				
Novosibirsk				
55 14 33 083 55 21 52 083	3 52 2 3 49 4 3 08 4 3 09 0	.9 .1		
Missile Operating I	Base	•		
Novosibirsk		9	9	Launch Canister - 9
55 22 05 N 08	3 13 5	52 E		Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0

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	•	<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Novosibirsk		· ;		
55 06 17 N 54 57 40 55 04 53 55 24 16	083 34 11 083 33 38 082 52 45 082 53 40	•		
Missile Operati	ng Base		÷ .	
Novosibirsk		9	9	Launch Canister - 9
55 22 57 N	082 55 16	5 E		Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
Deployment Area	<u>!</u>		•	
Novosibirsk				
55 31 47 N 55 13 26 55 20 01 55 40 13	084 08 5 082 56 59 082 49 4 084 00 42	5 1		
Missile Operati	ng Base			
Novosibirsk 55 19 32 N	082 56 1	9 8 È	9	Launch Canister - 3 Missile Transport Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
·				

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		<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Novosibirsk				
55 08 01 N 54 52 56 55 11 17 55 22 00	083 53 0 083 52 0 082 56 4 083 01 0	02 49		
Missile Operatir	ng Base	,		
Novosibirsk		9	9	Launch Canister - 9
55 18 44 N	083 01 3	38 E		Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9
•	·			Training Missile - 0
Deployment Area				
Novosibirsk				
55 03 58 N 54 53 12 55 04 49 55 22 00	084 18 084 19 082 56 083 01	10 30		:
Missile Operati	ng Base			·
Novosibirsk 55 19 07 N	083 09	9 <b>59 E</b>	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0

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Support Structures and Equipment Launchers <u>Missiles</u> Deployment Area Drovyanaya 51 44 02 N 113 08 33 E 113 07 32 51 22 28 112 46 52 51 22 49 112 54 39 51 44 16 Missile Operating Base Launch Drovyanaya Canister - 9 Missile Transporter 113 03 42 E 51 27 20 N Vehicle - 0 Fixed Structure for Launcher -Training Missile Deployment Area Drovyanaya 113 08 14 E 51 37 34 N 113 07 32 51 22 28 112 36 23 51 18 39 112 40 08 51 27 14 Missile Operating Base Launch Drovyanaya Canister -Missile Tran ; rter 51 26 10 N 113 02 43 E Vehicle Fixed Structure for Launcher -Training Missile

Support

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		Missiles	<u>Launchers</u>	Structures and Equipment
Deployment Area				
Drovyanaya				
51 20 36 51 18 54	112 53 51 112 50 13 112 15 44 112 15 51			
Missile Operating	g Base	•		
Drovyanaya 51 22 59 N	112 49 55	9 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
Deployment Area				
Drovyanaya				
51 26 54 N 51 18 13 51 18 47 51 29 39	113 00 50 113 03 54 112 26 03 112 19 29			
Missile Operation	ng Base			
Drovyanaya 51 20 18 N	113 00 54	9 I E	9	Launch Canister - 9 Missile Transport Vehicle - 0 Fixed Structure for Launcher - 4 Training Missile - 0

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		Missiles	Launchers	Support Structures and Equipment
Deployment Area Drovyanaya				
51 33 19 N 1 51 22 32 1 51 22 49 1	13 04 35 13 04 05 12 46 52 12 47 17	E		
Missile Operating	Base			
Drovyanaya 51 23 49 N l	.12 52 13	9 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure
				for Launcher - 9 Training Missile - 0
Deployment Area			•	
Barnaul				
53 43 46 0 53 35 30	084 01 02 084 01 48 083 43 07 083 36 24			
Missile Operating	Base			
Barnaul 53 46 08 N (	083 57 11	9 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0

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Deployment Area	1	<u>Missiles</u>	Launchers	Structures and Equipment			
Deployment Area							
Barnaul	•						
53 29 21 N 52 58 43 53 13 47 53 29 02	084 31 45 083 47 57 083 48 56 084 17 18	E					
<u>Missile Operati</u>	ng Base						
Barnaul 53 18 21 N	084 08 47	9 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0			
Deployment Area	•		·				
53 16 38 N	084 43 16	F					
52 59. 32 52 55 09 53 16 02	084 51 20 084 47 58 084 14 31		-				
Missile Operating Base							
Barnaul 53 13 29 N	084 40 10	9 <b>E</b>	9	Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0			

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•				<u>Structures</u>
(x,y) = (x,y) + (x,y) + (y,y) + (y,y		<u>Missiles</u>	<u>Launchers</u>	and Equipment
			•	
Deployment Area				
Barnaul		•		
53 27 33 N 53 16 42 53 16 02 53 26 58	084 49 55 084 46 5 084 14 3 084 21 0	2 1		
Missile Operati	ng Base			
Barnaul		9	9	Launch
53 18 47 N	084 30 2	7 E		Canister - 9 Missile Transporter Vehicle - 0
•				Fixed Structure for Launcher - 9 Training Missile - 0
		,		
Deployment Area				
Kansk				
56 32 14 N 56 15 16 56 28 30 56 34 39	096 12 1 095 34 5 095 20 1 095 36 1	3		
Missile Operati	ng Base			
Kansk		9	9	Launch
56 22 31 N	095 28 3	5 E		Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
		,		

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•				
		<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Kansk				
56 30 47 N 56 19 53 56 13 45 56 31 03	095 12 33 095 19 41 094 59 58 094 56 58	I	•	
Missile Operation	ng Base			· .
<b>Kansk</b> 56 20 09 N	095 16 34	9 1 E	9	Launch Canister - 9 Missile Transporter Vehicle - 0
· · · · · · · · · · · · · · · · · · ·				Fixed Structure for Launcher - ; Training Missile - 0
Deployment Area				
Kansk				
56 19 29 N 56 08.43 56 08 17 56 19 14	096 20 5 096 21 4 096 02 2 095 50 4	1 4		
Missile Operati	ng Base	. *		
Kansk 56 11 <b>19 N</b>	096 03 1	9 3 E	9	Launch Canister - ; Missile Transparent Vehicle - ; Fixed Structure for Launcher - ; Training Missile - ;

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							Mis	siles	· ·	Läuncher	<u>s</u>	Support Structures and Equipment
	Deploym	ent A	rea									
	Kansk											
	_		÷	096 096 096 095	14 03	35 03	E					
	Missile	Oper	atin	g Ba	se						s	
	Kansk 56 0	2 19	N	096	04	58	E	9		9		Launch Canister - 9 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 9 Training Missile - 0
•	(ii) S	SS-4 nent A	rea									
	Sovets	sk .										,
	55 0 54 5	05 33 03 22 67 04 01 23	N	021 021 021 021	56 29	20 58	E			·		
	Missile	Oper	atir	ng B	ase							•
	Sovets	sk 59 07	N	021	36	36	E	5		6 (Launch Stand)		Missile Transporter Vehicle - 11 Missile Erector - 7 Propellant Tank - 52 Training Missile - 6

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	Miss	siles	Launchers	Support Structures and Equipment
Deployment Area				
Gusev				
54 46 02 N 54 24 14 54 20 01 54 43 58	022 07 07 E 022 28 42 022 21 10 021 55 53		·	
Missile Operation	ng Base		•	
Gusev  54 43 59 N  Deployment Area  Malorita  51 53 50 N  51 43 09  51 42 59  51 53 45	022 03 27 E  024 05 39 E  024 09 49  023 57 07  023 57 50	5	7 (Launch Stand)	Missile Transporter Vehicle - 12 Missile Erector - 7 Propellant Tank - 52 Training Missile - 7
Missile Operat:				
Malorita 51 51 47 N	024 01 55 E	5	6 (Launch Stand)	Missile Transporter Vehicle - 14 Missile Erector - 7
				Propellant Tank - 48 Training Missile - 5

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		Missiles	<u>Launchers</u>	Support Structures and Equipment
Deployment Area				
Pinsk			·	
52 15 03 N 52 04 09 52 03 56 52 14 54	025 49 43 025 39 30 025 22 00 025 35 40	) )		
Missile Operati	ng Base		•	
Pinsk 52 10 56 N	025 41 27	5 E	5 (Launch Stand)	Missile Transporter Vehicle - 13 Missile Erector - 6 Propellant Tank - 47 Training Missile - 6
Deployment Area				
Vyru				
57 49 33 N 57 43 05 57 43 04 57 49 32	027 00 00 027 00 00 026 43 54 026 43 51	) 		
Missile Operati	ng Base			
Vyru 57 45 47 N	026 47 13	5 3 E	6 (Launch Stand)	Missile Transporter Vehicle - 11 Missile Erector - 5 Propellant Tank - 51 Training Missile - 6
			•	

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	<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area			
Aluksne			
57 25 51 N 026 56 6 57 21 32 026 56 57 17 12 026 40 57 25 49 026 40	01 06		
Missile Operating Base			
Aluksne 57 25 04 N 026 49	5 46 E	6 (Launch Stand)	Missile Transporter Vehicle - 12 Missile Erector - 6
•			Propellant Tank - 45 Training Missile - 6
Deployment Area			
Ostrov			
57 38 21 N 028 20 57 21 04 028 23 57 21 14 028 07 57 38 28 028 08	43 47		
Missile Operating Base			
Ostrov	5	8 (Launch	Missile Transporter
57 31 53 N 028 12	19 E	Stand)	Vehicle - 12 Missile Erector - 7 Propellant Tank - 48 Training Missile - 6

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		<u>Missiles</u>	Launchers	Support Structures and Equipment
Deployment Area				
Karmelava				
55 06 12 N 54 57 49 54 55 00 55 01 28	024 22 04 024 33 51 024 04 05 024 03 36	•		•
Missile Operati	ng Base			
Karmelava 55 00 51 N	024 14 16	5 E	5 (Launch Stand)	Missile Transporter Vehicle - 13 Missile Erector - 6 Propellant Tank - 47 Training Missile - 6
Deployment Area	<u>.</u>			
Ukmerge				
55 17 41 N 55 04 25 55 08 35 55 19 43	024 59 06 024 40 58 024 33 12 024 51 26		. *	
Missile Operati	ng Base	·		
Ukmerge 55 07 51 N	024 38 36	5 E	6 (Launch Stand)	Missile Transporter Vehicle - 14 Missile Erector - Propellant Tank - 53 Training Missile - 6

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	<u>Mi</u>	ssile <b>s</b>	<u>Launchers</u>	Support Structures and Equipment
Deployment Area				
Taurage	•			
55 18 07 N 55 09 30 55 03 10 55 13 35	022 30 42 E 022 30 22 022 18 52 022 21 01		·	
Missile Operati	ng Base			
Taurage		5	5 (Launch	Missile Transporter
55 04 58 N	022 19 38 E		Stand)	Vehicle - 12 Missile
				Erector - 6 Propellant
•				Tank - 47 Training
•				Missile - 6
Deployment Area	· <u>1</u>		, •	
Kolomyya				
48 45 01 N 48 36 23 48 36 04 48 44 42	024 55 59 E 024 56 20 024 40 04 024 39 40	i i i i i i i i i i i i i i i i i i i		
Missile Operati	ing Base			
Kolomyya		5	6 (Launch	Missile Transporter
48 39 32 N	024 48 04 E		Stand)	Vehicle - 12 Missile Erector - 6 Propellant Tank - 46 Training Missile - 7

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		,	Mi	ssiles	Launchers	Support Structures and Equipment
Deployment Area						
Stryy						
49 19 59 N 49 11 22 49 21 09 49 29 46	023 58 023 58 023 31 023 32	29 57	E			
Missile Operati	ng Base			•		
Stryy				5	7 (Launch	Missile Transporter
49 25 23 N	023 34	56	E		Stand)	Vehicle - 12 Missile Erector - 7 Propellant Tank - 49 Training Missile - 7
Deployment Area	L			·		
Skala-Podol'sk	aya					
48 54 37 N 48 48 09 48 48 02 48 54 30	026 17 026 17 026 01 026 01	12	E			
Missile Operati	ng Base					
Skala-Podol'sk	aya			5	6 (Launch	Missile
48 51 02 N	026 08	36	E		(Launch Stand)	Transporter Vehicle - 12 Missile Erector - 6 Propellant Tank - 46 Training Missile - 5

### 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 and Equipment
(a) UNITED STATES OF AME	RICA		
(i) <u>Pershing II</u>			
Missile Production Facilities:			
Hercules Plant #1 Magna, Utah	0	0	Launch Pad Shelter - 0 Training
40 39 40 N 112 03 14	ı w		Missile Stage - 0
Launcher Production Facilities:			
Martin Marietta Middle River, Maryland	0	. <b>0</b>	Launch Pad Shelter - 0 Training
39 35 N 076 24 W	-		Missile Stage – 0

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	<u>Missiles</u>	Launchers	Support Structures and Equipment
Missile Storage Facilities:			
Pueblo Depot Activity Pueblo, Colorado	111	0 .	Launch Pad Shelter - 0 Training
38 19 N 104 20 W			Missile Stage - 4
Redstone Arsenal Huntsville, Alabama	1	0	Launch Pad Shelter - 0 Training
34 36 N 086 38 W			Missile Stage - 20
Weilerbach' Federal Republic of Germany	12	0	Launch Pad Shelter - 0 Training Missile
49 27 N 007 38 E			Stage - 0
Launcher Storage Facilities:			
Redstone Arsenal Huntsville, Alabama 34 35 N 086 37 W	0	1	Launch Pad Shelter - 0 Training Missile
Missile/Launcher Storage	•		Stage - 0
Facilities:			
NONE	÷ .		
Missile Repair Facilities:	·		
Pueblo Depot Activity Pueblo, Colorado	0	0	Launch Pad Shelter - 0 Training
38 18 N 104 19 W			Missile Stage - 0

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	Missiles	Launchers	Support Structures and Equipment
Launcher Repair Facilities:		•	
EMC Hausen Frankfurt, Federal Republic of Germany	0	0	Launch Pad Shelter - 0 Training Missile
50 08 N 008 38 E			Stage - 0
Redstone Arsenal Huntsville, Alabama	0	10	Launch Pad Shelter - 0 Training
34 37 N 086 38 W			Missile Stage - 0
Ft. Sill, Oklahoma	0	2	Launch Pad Shelter - 0 Training
34 40 N 098 24 W	•		Missile Stage - 0
Pueblo Depot Activity Pueblo, Colorado	0	<b>0</b>	Launch Pad Shelter - 0 Training
38 19 N 104 20 W			Missile Stage - ∪
Missile/Launcher Repair Facilities:			
NONE			
Test Ranges:			
Complex 16 Cape Canaveral, Florida	3	0	Launch Pad Shelter - 0 Training Missile
28 29 N 080 34 W			Stage - 0
Training Facilities:			
Ft. Sill, Oklahoma	0	39	Launch Pad Shelter - 0 Training
34 41 N 098 34 W  Declassified and Approved F	For Release 2013/	09/11 : CIA-RDP91B	Missile 00390R000500560030-1

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	Missiles	<u>Launchers</u>	Support Structures and Equipment
Elimination Facilities:			
(Not determ	mined)		
Missiles, Launchers, and Support Equipment in Transit:	0	0	Training Missile Stage - 4
(ii) <u>BGM-109G</u>	•		
Missile Production Facilities:			·
McDonnell-Douglas Titusville, Florida 28 32 N 080 40 W	52 with launch canister	0	Training Missile - 0 Training Launch Canister - 0
General Dynamics Kearney Mesa, California 32 50 N 117 08 W	48 with launch canister	0	Training Missile - 0 Training Launch Canister - 0
Launcher Production Facilities:			
Air Force Plant 19 San Diego, California	2 with launch canister	. 4	Training Missile - 0 Training Launch
32 45 N 117 12 W			Canister - 0

Missile Storage Facilities:

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Support
Structures
Missiles Launchers and Equipment

<u>Launcher Storage</u> <u>Facilities</u>:

NONE

Missile/Launcher Storage
Facilities:

NONE

Missile Repair
Facilities:

SABCA Gosselies, Belgium	16 with launch canister	0	Training Missile - 0 Training Launch
50 27 N 004 27 E	· ·		Canister - 0

Launcher Repair Facilities:

NONE

Missile/Launcher Repair Facilities:

NONE

Test Ranges:

Dugway Proving Grounds, Utah	0 with launch canister	0	Training Missile Training	-	0
40 22 N 113 04 W		•	Launch Canister	_	0

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	<u>Missiles</u>	Launchers	Support Structures and Equipment
Training Facilities:	· v		
Davis-Monthan AFB Tucson, Arizona 32 11 N 110 53 W	0 with launch canister	7	Training Missile - 2 Training Launch Canister - 27
32 11 N 110 33 N		•	
Ft. Huachuca Ft. Huachuca, Arizona	0 with launch canister	6	Training Missile - 0 Training Launch
31 29 N 110 19 W			Canister - 8
Elimination Facilities:  (Not deter	mined)		
Missiles, Launchers, and Support Equipment in Transit:	15 with launch canister	0	Training Missile - 0 Training Launch Canister - 2
(b) UNION OF SOVIET SOC	CIALIST REPUBL	ICS	
(i) <u>SS-20</u> Missile Production			
Facilities:			
Votkinsk Machine Building Plant Udmurt ASSR, RSFSR	36*	. <b>0</b>	Launch Canister - 36 Missile Transporter Vehicle - 0
57 01 30 N 054 08	00 E		Fixed Structure for Launcher - 0 Training
*In various stages of m	anufacture.		Missile - 0

	<u>Missiles</u>	Launchers	Support Structures and Equipment
Launcher Production Facilities:			
Barrikady Plant Volgograd	0	1	Launch Canister - 0 Missile Transporter
48 44 N 044 32 E			Vehicle - 0 Fixed Structure for Launcher - 0 Training Missile - 0
Missile Storage			
Facilities:			
Launcher Storage Facilities:			
NONE			
Missile/Launcher Storage Facilities:	2		
Postavy	2	3	Launch Canister - 3
55 10 N 026 55 E			Missile Transporter Vehicle - 10 Fixed Structure for Launcher - 0 Training Missile - 1

	<u>Missiles</u>	<u>Launchers</u>	Support Structures and Equipment
Gezgaly 53 36 N 025 28 E	2	2	Launch Canister - 6 Missile Transporter Vehicle - 10 Fixed Structure
			for Launcher - 0 Training Missile - 4
Mozyr' 52 03 N 029 11 E	2	2	Launch Canister - 4 Missile Transporter Vehicle - 10 Fixed Structure for Launcher - 0 Training Missile - 2
Lutsk 50 53 N 025 30 E	1	1	Launch Canister - 3 Missile Transporter Vehicle - 10 Fixed Structure for Launcher - 3 Training Missile - 2
Belokorovichi 51 09 N 028 00 E	2	2	Launch Canister - 3 Missile Transporter Vehicle - 10 Fixed Structure for Launcher Training Missile - 1
Lebedin 50 36 N 034 25 E	2	1	Launch Canister - 5 Missile Transporter Vehicle - 10 Fixed Structure for Launcher - 0 Training Missile - 3

	•	<u>Missiles</u>	Launchers	Support Structures and Equipment
Novosibirsk 55 16 N	083 02 E	1		Launch Canister - 3 Missile Transporter Vehicle - 10 Fixed Structure for Launcher - 0 Training Missile - 2
Drovyanaya 51 30 N	113 03 E	2	2	Launch Canister - 4 Missile Transporter Vehicle - 10 Fixed Structure for Launcher - 0 Training Missile - 2
Kansk 56 16 N	095 39 E	1	1	Launch Canister - 2 Missile Transporter Vehicle - 1 Fixed Structure for Launcher - 0 Training Missile - 1
Barnaul 53 34 N	083 48 E	1	1	Launch Canister - 1 Missile Transporter Vehicle - 3 Fixed Structure for Launcher - 3 Training Missile - 0
Kolosovo 53 31 N	026 55 E	144	0	Launch Canister - 144 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 0 Training Missile - 0

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	Missiles	<u>Launchers</u>	Support Structures and Equipment
Zherebkovo	20	0	Launch Canister - 21 Missile Transporter
47 51 N 029 54 E			Vehicle - 2 Fixed Structure for Launcher - 0
			Training Missile - l
Missile Repair	•		
Facilities:	·		
• • • • • • • • • • • • • • • • • • •	. *		
Launcher Repair Facilities:			
NONE	inga managan		
Missile/Launcher Repair Facilities:	:	,	Launch
Bataysk 47 08 N 039 47 E	0	11	Canister - 2 Missile Transporter
4/ 08 N 039 4/ 2			Fixed Structure for Launcher - 0
	`.		Training Missile – 2
Test Ranges:			
Kapustin Yar	0	8	Launch Canister - 0 Missile Transporter
48 37 N 046 18 E			Vehicle - 3 Fixed Structure
			for Launcher - l Training Missile - 0
	. •		

	<u>Mis</u>	siles	<u>Launchers</u>	Support Structures and Equipment
Training Facilitie	es:			
Serpukhov		0	6	Launch Canister - 4
54 54 N 037	28 E	·		Missile Transporter Vehicle - 1 Fixed Structure for Launcher - 0 Training Missile - 4
		0	1	Launch
Krasnodar 45 03 N 038	58 E	U	•	Canister - 2 Missile Transporter Vehicle - 1 Fixed Structure for Launcher - 0 Training
				Missile - 2
Training Center Test Range Kapustin Yar 48 38 N 046	at	0	7	Launch Canister - 12 Missile Transporter Vehicle - 1 Fixed Structure for Launcher - 3
				Training Missile - 12
Elimination Faci:	<u>lities</u> :			
Sarny 51 21 N 026	35 E	29	68	Launch Canister - 32 Missile Transporter Vehicle - 35 Fixed Structure for Launcher - 0 Training Missile - 3
	18 E  Approved For Re	0 elease 2013/09	<b>0</b> 0/11 : CIA-RDP91B0	Launch Canister - 0 Missile Transporter Vehicle - 0 Fixed Structure for Launcher - 0 Training Miccila - 0 0390R000500560030-1

		Missiles	<u>Launchers</u>	Support Structures and Equipment
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) <u>SS-4</u>

Missile Production Facilities:

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<u>Support</u>
<u>Structures</u>

<u>Missiles Launchers and Equipment</u>

Launcher Production Facilities:

NONE

Missile Storage Facilities:

NONE

Launcher Storage Facilities:

NONE

Missile/Launcher Storage Facilities:

Kolosovo 53 31 N 026 55 E	35	l (Launch Stand)	Missile Transporter Vehicle Missile Erector Propellant Tank Training Missile
Zherebkovo 47 51 N 029 54 E	56	3 (Launch Stand)	Missile Transport Vehicle Missile Erector Propellant Tank Training Missile

Missile Repair Facilities:

Bataysk 0 0 Missile

(Launch Transporter:
Stand) Vehicle Missile
Erector Propellant
Tank -

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Support
Structures
Missiles Launchers and Equipment

<u>Launcher Repair</u> <u>Facilities</u>:

NONE

Missile/Launcher Repair Facilities:

NONE

Test Ranges:

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

Training Facilities:

NONE

Elimination Facilities:

Lesnaya

0
0
0
Missile
Transport:
Stand)
Vehicle - 0
Missile
Erector - 0
Propellant
Tank - 0
Training
Missile - 0

Missiles, Launchers, and Support Equipment in Transit:

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Support
Structures
Missiles Launchers and Equipment

(iii) <u>SS-5</u>

Missile Production
Facilities:

NONE

<u>Launcher Production</u> Facilities:

NONE

Missile Storage
Facilities:

Kolosovo

53 31 N 026 55 E

Launcher Storage Facilities:

NONE

Missile/Launcher Storage Facilities:

NONE

Missile Repair Facilities:

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Structures
and Equipment

Missi<u>les</u>

Launchers

Launcher Repair Facilities:

NONE

Missile/Launcher Repair Facilities:

NONE

Test Ranges:

NONE

Training Facilities:

NONE

Elimination Facilities:

Lesnaya

.

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.

	•	Support
<u>Missiles</u>	Launchers	Equipment

- (a) UNITED STATES OF AMERICA
- (i) Pershing IA

# Missile Operating Base:

'NONE

(b) UNION OF SOVIET SOCIALIST REPUBLICS

013 15 50 E

(i) SS-12

## Missile Operating Bases:

53 16 20 N

MISSITE OPCIOCING DESCRIPTION			
Koenigsbrueck, German Democratic Republic 51 16 40 N 013 53 20 E	19	11	Missile Transporter Vehicle - 9 Training Missile - 10
Bischofswerda, German Democratic Republic 51 08 33 N 014 12 18 E	8	5	Missile Transporter Vehicle - 0 Training Missile - 4
Waren, German Democratic Republic 53 32 40 N 012 37 30 E	22	12	Missile Transporter Vehicle - 9 Training Missile - 7
Wokuhl, German Democratic Republic	5	6	Missile Transporter Vehicle - 0

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Training

Missile -

		<u>Missiles</u>	<u>Launchers</u>	<u>Support</u> <u>Equipment</u>
Hranice, Czecho Socialist Rep	slovak	39	24	Missile Transporter <b>Vehicle</b> - 15
49 33 00 N	017 45 00	E		Training Missile - 13
Pashino 55 16 37 N	082 59 42	0 E	4	Missile Transporter Vehicle - l Training
				Missile - 5
Gornyy 51 33 10 N	113 01 30	36 E	14	Missile Transporter Vehicle - 1 Training Missile - 13
Lapichi 53 25 30 N	028 30 00	9 ) E	5	Missile Transporter Vehicle - : Training Missile - !)
Kattakurgan 39 38 18 N	065 58 4	9 O E	5	Missile Transport: Vehicle Training Missile -
Saryozek 44 31 58 N	077 46 2	36 0 E	15	Missile Transportor Vehicle - Training Missile - :
Novosysoyevka 44 11 58 N	133 26 0	37 5 E	14	Missile Transporter Vehicle - 5 Training Missile - 17

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<u>Mi</u>	ssile <b>s</b>	Launchers	Support Equipment
(ii) <u>SS-23</u>			
Missile Operating Bases:			
Weissenfels, German Democratic Republic 51 11 50 N 011 59 50 E	6	4	Missile Transporter Vehicle - 3 Training
JI II Jo n OIL 59 CC			Missile - 18
Jena-Forst, German Democratic Republic	47	12	Missile Transporter Vehicle - 8 Training
50 54 55 N 011 32 40 E			Missile - 3
Stan'kovo 53 38 30 N 027 13 20 E	40	18	Missile Transporter Vehicle - 18 Training Missile - 10
			MISSITE - IV
Tsel' 53 23 38 N 028 28 06 E	26	12	Missile Transporter Vehicle - 11 Training Missile - 9
Slobudka 52 30 30 N 024 31 30 E	26	12	Missile Transporter Vehicle - 12 Training Missile - 10
Bayram-Ali 37 36 18 N 062 10 40 E	0	12	Missile Transporter Vehicle - 12 Training Missile - 0
Semipalatinsk 50 23 00 N 080 09 30 E	22	12	Missile Transporter Vehicle - 12 Training Missile - 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.

	<u>Missiles</u>	Launchers	Support Equipment
(a) UNITED STATES OF AMERICA			
(i) <u>Pershing IA</u>	·		
Missile Production Facilities:			
Longhorn Army Ammunition Plant Marshall, Texas	0	0	Training Missile Stage - 0
32 39 N 094 08 W			
Launcher Production Facilities:  Martin Marietta  Middle River, Maryland	0	0	Training Missile Stage - 0
39 35 N 076 24 W			
<pre>Missile Storage Facilities: Pueblo Depot Activity Pueblo, Colorado</pre>	169	0	Training Missile Stage - 53
38 19 N 104 20 W			222,0

# Launcher Storage Facilities:

NONE

# Missile/Launcher Storage Facilities:

NONE

# Missile Repair Facilities:

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	<u>Missiles</u>	Launchers	Equipment
Launcher Repair Facilities:			
Pueblo Depot Activity Pueblo, Colorado	0	. 1	Training Missile Stage - 0
38 19 N 104 20 W			· ·
Missile/Launcher Repair Facilities:			
NONE			
Test Ranges:			
NONE			
Training Facilities:			
NONE		·	
Elimination Facilities:			· .
(Not determined)			
Missiles, Launchers, and Support Equipment in T.ansit:	1	0	Training Missile Stage - 0
(b) UNION OF SOVIET SOCIALIST	REPUBLICS		
(i) <u>SS-12</u>			
Missile Production Facilities:			
Votkinsk Machine Building Plant Udmurt ASSR, RSFSR	0	0	Missile Transporter Vehicle - 0 Training
57 01 30 N 054 08 00 E	٠,		Missile - 0

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		Missiles	Launchers	Support Equipment
Launcher Product: Facilities:	<u>ion</u>			
Barrikady Plant Volgograd		0	0	Missile Transporter Vehicle - 0
48 44 N 044	32 E			Training Missile - 0
Missile Storage Facilities:			•	
Lozovaya		126	0	Missile Transporter
48 55 N 036	22 E	•		Vehicle - 0 Training Missile - 12
•		•		
Ladushkin		72	0	Missile Transporter
54 35 N 020	12 E			Vehicle - 0 Training Missile - 18
		C		
Bronnaya Gora		170	<b>0</b>	Missile Transporter
<b>52 37 N</b> 025	04 E			Vehicle - 0 Training Missile - 3
Balkhash 46 50 N 075	36 E	138	0,	Missile Transporter Vehicle - 0
			e de la compa	Training Missile - 47
Launcher Storage	Facilities:			
Berezovka		0	15	Missile
50 20 N 028	26 E			Transporter Vehicle - 10
	·			Training Missile – 0

# Missile/Launcher Storage Facilities:

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•				
		Missiles	Launchers	<u>Support</u> <u>Equipment</u>
Missile Repa	<u>ir Facilities</u> :			
·	NONE			
Launcher Rep	air Facilities:			
	NONE		•	
Missile/Laun Repair Facil	<u>cher</u> ities:			
	NONE			
Test Ranges:			•	
	NONE			• .
Training Fac	ilities:			
Saratov		. 0	3	Missile Transporter
51 34 N	046 01 E			Vehicle - 2 Training Missile - 3
Kazan'		0	2	Missile
55 58 N	049 11 E			Transporter Vehicle 2 Training Missile -
Kamenka		0	0	Missile Transporter
53 11 N	044 04 E			Vehicle Training Missile - 3
Elimination	Facilities:			,
Saryozek (M	Missiles)	0	, 0	Missile Transporter
44 32 N	077 46 E	<i>:</i>		Vehicle - 0 Training Missile - 0

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	<u>Missiles</u>	Launchers	<u>Support</u> <u>Equipment</u>
Stan'kovo (Launchers and Missile Transporter Vehicles)	0	0	Missile Transporter Vehicle - 0 Training
53 38 N 027 13 E			Missile - 0
Missiles, Launchers, and Support Equipment in Transit:			
NONE			
(ii) <u>\$\$-23</u>			
Missile Production Facilities:			
Votkinsk Machine Building Plant Udmurt ASSR, RSFSR	0	0	Missile Transporter Vehicle - 0 Training
57 01 30 N 054 08 00 E			Missile - 0
Launcher Production Facilities	:		
V.I. Lenin Petropavlovsk Heavy Machine Building Plant Petropavlovsk	γ 0		Missile Transporter Vehicle - 0 Training
54 51 N 069 09 E			Missile - 0
Missile Storage Facilities:			
Ladushkin	33	0	Missile Transporter
54 35 N 020 12 E			Vehicle - 0 Training Missile - 42

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	Missiles	Launchers	Support Equipment
Launcher Storage Facilities:			
Berezovka	0	13	Missile
50 20 N 028 26 E			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			
Training Facilities:			
Saratov	0	3	Missile
51 34 N 046 01 E			Transporter Vehicle - 2 Training Missile - 0
			MI22116 - 0
Kazan'	. 0	3	Missile Transporter Vehicle - 2
55 58 N 049 11 E			Vehicle - 2 Training Missile - 0

	<u>Missiles</u>	Launchers	<u>Support</u> Equipment
Kamenka 53 11 N 044 04 E	0	1	Missile Transporter Vehicle - 1 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	<b>0</b> 	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

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.

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<u>Support</u>

<u>Missiles Launchers Equipment</u>

- (a) UNITED STATES OF AMERICA
- (i) Pershing IB

Missile Production Facilities:

NONE

<u>Launcher Production</u> <u>Facilities</u>:

NONE

Missile Storage Facilities: '

NONE

Launcher Storage Facilities:

NONE

Missile/Launcher Storage
Facilities:

NONE

Missile Repair Facilities:

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<u>Missiles</u>

Launchers

Support Equipment

Launcher Repair Facilities:

NONE

Missile/Launcher Repair
Facilities:

NONE

Test Ranges:

NONE

Training Facilities:

NONE

Elimination Facilities:

NONE

Missiles, Launchers, and Support Equipment in Transit:

NONE

- (b) UNION OF SOVIET SOCIALIST REPUBLICS
- (i) SSC-X-4

Missile Production
Facilities:

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	<u>Missiles</u>	Launchers	Support Equipment
Launcher Production Facilities:			
Experimental Plant of the Amalgamated Production Works "M. I. Kalinin Machine Building Plant," Sverdlovsk	0 with launch canister	0	
56 47 24 N 060 47 03 E			

Missile Storage Facilities:

NONE

<u>Launcher Storage</u> <u>Facilities</u>:

NONE

# Missile/Launcher Storage Facilities:

Jelgava		84	6
•		with	
56 40 N	024 06 E	launch	
	•	canister	

Missile Repair Facilities:

NONE

Launcher Repair Facilities:

NONE

Missile/Launcher Repair Facilities:

NONE

#### Test Ranges:

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<u>Support</u>
<u>Missiles Launchers Equipment</u>

Training Facilities:

NONE

Elimination Facilities:

Jelgava

56 40 N 024 06 E

0
with
launch
canister

Missiles, Launchers, and Support Equipment in Transit:

### 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.

# 1. Intermediate-Range Missiles

		P-II	BGM-109G	<u>SS-20</u>	<u>SS-4</u>	<u>SS-5</u>	SSC-X-4
(a) <u>M</u>	Missile Characteristics:						
(i)	Maximum number of warheads per missile	1	1	3	1	1	1
(ii)	Length of missile, with front section (meters)	10.61	6.40	16.49	22.77	24.30	8.09
(iii)	Length of . 1st stage 2nd stage (meters)	3.68 2.47	and the second s	8.58 4.60	18.60	21.62	<del>-</del>
(iv)	Maximum diameter of lst stage (meters)	- 1.02 1.02		1.79 1.47	1.65 - -	2.40	0.51
(v)	Weight of GLBM, in metric tons (without front section; for liquid-fueled missiles, empty weight) lst stage 2nd stage	6.78 4.15 2.63	_	- 26.63 8.63	3.35	4.99 - -	
(vi)	Missile in canister  Weight of assembled GLCM, in metric tons (with fuel In canister Without canister	- ) - -	1.71 1.47	42.70 - -	- - -	- -	1.70

	•						
		P-II	BGM-109G	<u>SS-20</u>	<u>SS-4</u>	<u>SS-5</u>	SSC-X-4
(b) <u>L</u>	auncher Characteristics:						
(i)	Dimensions (maximum length, width, height in meters)	9.60 2.49 2.86	10.64 2.44 2.64	16.81 3.20 2.94	3.02 3.02 3.27	- - : -	12.80 3.05 3.80
	Maximum number of missiles each launcher is capable of carrying or containing at one					· · · ·	6
	time	1	4	1 40.25	6.90	- -	29.10
(iii)	Weight (in metric tons)	12.04	14.30	40.25	6.90		23.10
<u> </u>	Characteristics of Support and Launchers						
neight	Dimensions of support strutt in meters):	ctures	are as fo	llows (m	aximum	length,	width,
(i)	Fixed structure for a launcher	<del>-</del>	- -	27.70 9.07 6.82	<del>-</del>		` <b>-</b>
(ii)	Launch pad shelter	74.00 14.60 10.00	_	-	<u>-</u>	· <del>-</del>	<del>-</del>
(b)	Characteristics of Support and Launchers	t Equipm	ent Assoc	<u>iated Wi</u>	th Such	Missi)	les
l heigh	Dimensions of support equit in meters):	ipment a	re as fol	lows (ma	ximum ]	length,	width,
(i)	Launch canister (Diameter)	-	6.94 0.53	19.32 2.14		-	8.39 0.65
(ii)	Missile transporter vehicle (number of missiles per vehicle)	-	-	17.33 3.20 2.90 (1)	22.85 2.72 2.50 (1)	2	<del>-</del>
(iii)	Missile erector	-	-	<u>-</u> : :	15.63 3.19 3.70	5	<del>-</del>
(iv)	Propellant tank (Transportable) Fuel	-	<del>-</del>		11.3 2.6 2.9	3	- -
	•				2.3		

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	Number of <u>Launchers</u>
Cape Cod, Massachusetts	. 1
42 01 N 070 07 W	
Wake Island	· <b>2</b>
19 18 N 166 37 E	
Wallops Island, Virginia	1
37 51 N 075 28 W	
(b) UNION OF SOVIET SOCIALIST REPUBLICS	
Plesetskaya	3
62 53 N 040 52 E	
Kapustin Yar	2
48 32 N 046 18 E	

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:

FOR THE UNION OF SOVIET SOCIALIST REPUBLICS:

President of the United States of America

General Secretary of the Central Committee of the CPSU