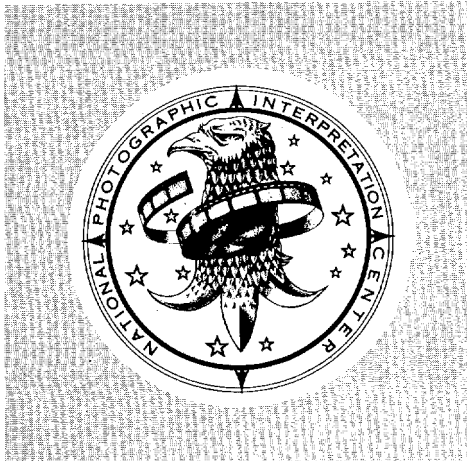


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NATIONAL PHOTOGRAPHIC
INTERPRETATION CENTER

OAK
SUPPLEMENT

PHOTOGRAPHIC INTERPRETATION REPORT

KH-4 MISSION 1109

IPIR NUMBER 24

OAK SUPPLEMENT PART XX

5-23 MARCH 1970

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TCS-20129/70

JUNE 1970

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OAK-070/70

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WARNING

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TARGET CATEGORIES
AND
ASSOCIATED NTP FUNCTIONAL AREAS (CODES)

- | | |
|--|---|
| 1. STRATEGIC SSM
Deployed Strategic SSM Facilities (A) | 7. GROUND
Ground Force Facilities (G) |
| 2. MISSILE RANGES
Missile Ranges: Strategic SSM/Space Facilities (P)
Missile Ranges: Air-Launched Missile Facilities (Q)
Missile Ranges: Naval-Launched Missile Facilities (R)
Missile Ranges: Tactical SSM Facilities (S)
Missile Ranges: SAM/AMM Facilities (T) | 8. TACTICAL SSM
Deployed Tactical SSM Facilities (H) |
| 3. AIR DEFENSE MISSILES
Deployed AMM Facilities (B)
Deployed SAM Facilities (D) | 9. LOGISTICS
Military Logistics Facilities (K) |
| 4. ELECTRONICS/COMMUNICATIONS
Deployed Communication/Electronic/Radar Facilities (C) | 10. NUCLEAR ENERGY
Atomic Energy Facilities (O) |
| 5. AIR
Air Base Facilities (E) | 11. CBR
CBR Facilities (V) |
| 6. NAVAL
Naval Base Facilities (F) | 12. INDUSTRY
Strategic Weapons Industrial Facilities (J)
General Purpose Weapons Industrial Facilities (L)
Non-Military Industrial Facilities (N)
Communication/Electronic/Radar R&D Facilities (U) |
| | 13. MISCELLANEOUS
Non-Military Logistics Facilities (M)
Miscellaneous/Unidentified Facilities (Z) |

These thirteen target categories are compatible with the Functional Area of Imagery Interpretation established under the National Tasking Plan. To enhance the analysis of readout on operationally associated targets, each target is reported relative to its primary functional association (i.e., missile range tracking facilities are reported under "MISSILE RANGES," fly-away airfields at aircraft plants are reported under "INDUSTRY," airfield nuclear weapons storage facilities are reported under "AIR," etc.).

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NUCLEAR ENERGY	10
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PREFACE

PREFACE

THIS IS THE TWENTIETH AND FINAL OAK SUPPLEMENT REPORT ON MISSION 1109. FOR COMPLETE PREFACE SEE THE FIRST OAK SUPPLEMENT REPORT.

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SOVIET UNION
COMMO/ELEC/RADAR FACILITIES

SIGNIFICANT RESULTS

ALGA TALL KING FACILITY

25X1D 25X1D
50-53-███ N 057-56-███ E

25X1D

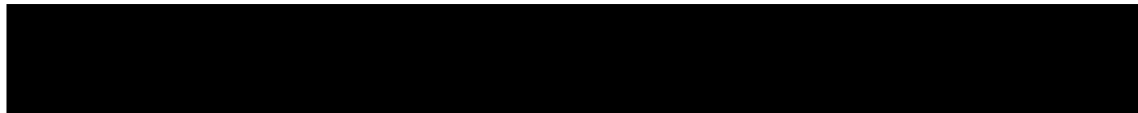
STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

1.7 NM SE OF ALGA. THE SECURED FACILITY CONSISTS OF A TALL KING ANTENNA BUILDING AND CONTROL BUILDING. IMMEDIATELY WEST ARE TWO OCCUPIED RADAR MOUNDS WITH TWO SUPPORT BUILDINGS AND SEVERAL SUPPORT VEHICLES.

25X1D



CHERUSTI MICROWAVE FACILITY

25X1D 25X1D
55-32-███ N 040-01-███ E

25X1D

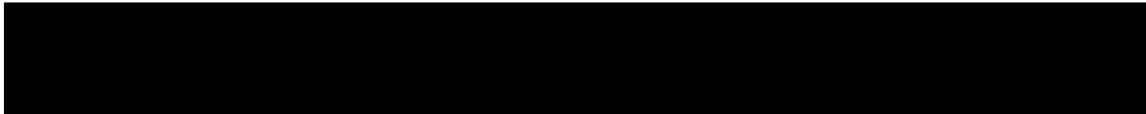
STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

ON THE EAST EDGE OF CHERUSTI. THIS SECURED FACILITY CONSISTS OF ONE MICROWAVE TOWER AND ONE CONTROL BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, OR ORIENTATION OF MICROWAVE ELEMENTS.

25X1D



DOBRYATINO MICROWAVE FACILITY

55-30-███ N 041-05-███ E
25X1D 25X1D

25X1D

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

ON THE EAST EDGE OF DOBRYATINO. THIS SECURED FACILITY CONSISTS OF ONE MICROWAVE TOWER, ONE CONTROL BUILDING, AND THREE POSSIBLE SUPPORT BUILDINGS. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, OR ORIENTATION OF MICROWAVE ELEMENTS.

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SOVIET UNION
COMMO/ELEC/RADAR FACILITIES

25X1D [REDACTED]

25X1D KOSTEREVO MICROWAVE FACILITY 55-58 [REDACTED] N 039-41 [REDACTED] E
[REDACTED] 25X1D 25X1D
STATUS: OPERATIONAL 25X1A

PHYSICAL DESCRIPTION:
3 NM NE OF KOSTEREVO. THIS SECURED FACILITY CONSISTS OF ONE MICROWAVE TOWER, ONE CONTROL BUILDING, AND ONE SUPPORT BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, OR ORIENTATION OF MICROWAVE ELEMENTS.

25X1D [REDACTED]

25X1D KOTELNICH MICROWAVE FACILITY 58-25 [REDACTED] N 048-29 [REDACTED] E
[REDACTED] 25X1D 25X1D
STATUS: OPERATIONAL 25X1A

PHYSICAL DESCRIPTION:
8.7 NM NNE OF KOTELNICH. THIS UNSECURED FACILITY CONSISTS OF A GUYED MICROWAVE TOWER, A CONTROL BUILDING, AND A SUPPORT BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, AND ORIENTATION OF MICROWAVE ELEMENTS.

25X1D [REDACTED]

25X1D KURATOVO MICROWAVE FACILITY 60-53 [REDACTED] N 049-45 [REDACTED] E
[REDACTED] 25X1D 25X1D
STATUS: OPERATIONAL 25X1A

PHYSICAL DESCRIPTION:
1.5 NM SE OF KURATOVO. THIS UNSECURED FACILITY CONSISTS OF A LATTICE MICROWAVE TOWER, TWO PROBABLE CONTROL BUILDINGS, AND TWO SUPPORT BUILDINGS. THE SMALL SCALE OF THE PHOTOGRAPHY

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SOVIET UNION
COMMO/ELEC/RADAR FACILITIES

PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, AND ORIENTATION OF
MICROWAVE ELEMENTS.

25X1D



25X1D

LOZYM MICROWAVE FACILITY

61-26-██ N 050-35-██ E



25X1D

25X1D

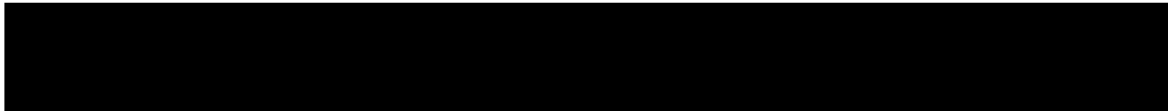
STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

IN THE SOUTHERN SECTOR OF LOZYM, THIS UNSECURED FACILITY
CONSISTS OF A LATTICE MICROWAVE TOWER, A CONTROL BUILDING, AND
TWO SUPPORT BUILDINGS. THE SMALL SCALE OF THE PHOTOGRAPHY
PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, AND ORIENTATION OF
MICROWAVE ELEMENTS.

25X1D



25X1D

MUROM MICROWAVE FACILITY

55-33-██ N 042-02-██ E



25X1D

25X1D

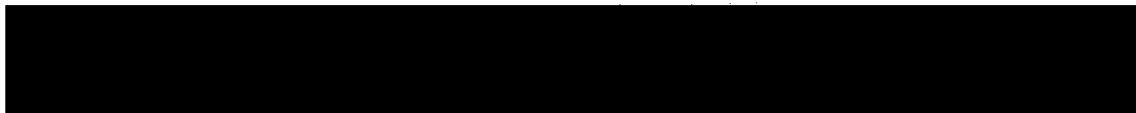
STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

ON THE SOUTH EDGE OF MUROM, THIS SECURED FACILITY CONSISTS OF
ONE MICROWAVE TOWER, ONE CONTROL BUILDING, AND THREE POSSIBLE
SUPPORT BUILDINGS. THE SMALL SCALE OF THE PHOTOGRAPHY
PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, OR ORIENTATION OF
MICROWAVE ELEMENTS.

25X1D



25X1D

NECHAYEVKA MICROWAVE FACILITY

55-30-██ N 040-35-██ E



25X1D

25X1D

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:
ON THE SOUTH EDGE OF NECHAYEVKA, THIS SECURED FACILITY
CONSISTS OF ONE MICROWAVE TOWER, ONE CONTROL BUILDING, AND
THREE SUPPORT BUILDINGS. THE SMALL SCALE OF THE PHOTOGRAPHY
PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, ORIENTATION OF
MICROWAVE ELEMENTS.

25X1D [REDACTED]

25X1D NOSHUL MICROWAVE FACILITY [REDACTED] 60-08 [REDACTED] N 049-29 [REDACTED] E
[REDACTED] 25X1D 25X1D
STATUS: OPERATIONAL 25X1A

PHYSICAL DESCRIPTION:
ON THE SOUTH EDGE OF NOSHUL, THIS UNSECURED FACILITY CONSISTS
OF A LATTICE MICROWAVE TOWER, A CONTROL BUILDING, A SUPPORT
BUILDING, AND SIX PROBABLE VEHICLES. THE SMALL SCALE OF THE
PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, AND
ORIENTATION OF MICROWAVE ELEMENTS.

25X1D [REDACTED]

25X1D OBYACHEVO AIRFIELD [REDACTED] 60-19 [REDACTED] N 049-38 [REDACTED] E
[REDACTED] 25X1D 25X1D
STATUS: OPERATIONAL 25X1A

PHYSICAL DESCRIPTION:
SE EDGE OF OBYACHEVO. THE FACILITY CONSISTS OF A NW/SE
SNOW-COVERED LANDING AREA WITH AN AIRCRAFT PARKING APRON, A
SUPPORT AREA CONTAINING 12 BUILDINGS, AND A SEPARATELY SECURED
POL STORAGE AREA CONSISTING OF 11 HORIZONTAL POL TANKS AND A
SUPPORT BUILDING.

25X1D [REDACTED]

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SOVIET UNION
COMMO/ELEC/RADAR FACILITIES

25X1D [REDACTED] 25X1D 25X1D
OPARINO MICROWAVE FACILITY 59-50 [REDACTED] N 048-15 [REDACTED] E
25X1D [REDACTED] 25X1A
STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:
SW EDGE OF OPARINO. THIS PROBABLY UNSECURED FACILITY CONSISTS
OF A LATTICE MICROWAVE TOWER AND A PROBABLE CONTROL BUILDING.
THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF
THE TYPE, SIZE, AND ORIENTATION OF MICROWAVE ELEMENTS.

25X1D [REDACTED]

25X1D [REDACTED] 25X1D 25X1D
PROSNITSA MICROWAVE FACILITY 58-25 [REDACTED] N 050-17 [REDACTED] E
25X1D [REDACTED] 25X1A
STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:
2 NM SE OF PROSNITSA. THIS UNSECURED FACILITY CONSISTS OF A
GUYED MICROWAVE TOWER, A CONTROL BUILDING, AND A PROBABLE
SUPPORT BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES
IDENTIFICATION OF THE SIZE, TYPE, AND ORIENTATION OF MICROWAVE
ELEMENTS.

25X1D [REDACTED]

25X1D [REDACTED] 25X1D 25X1D
VEKSHOR MICROWAVE FACILITY 60-31 [REDACTED] N 049-26 [REDACTED] E
25X1D [REDACTED] 25X1A
STATUS: OPERATIONAL

PHYSICAL DESCRIPTION:
0.8 NM SW OF VEKSHOR. THIS UNSECURED FACILITY CONSISTS OF A
LATTICE MICROWAVE TOWER, A CONTROL BUILDING, THREE SUPPORT
BUILDINGS, AND FOUR POSSIBLE VEHICLES. THE SMALL SCALE OF THE
PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, AND
ORIENTATION OF MICROWAVE ELEMENTS.

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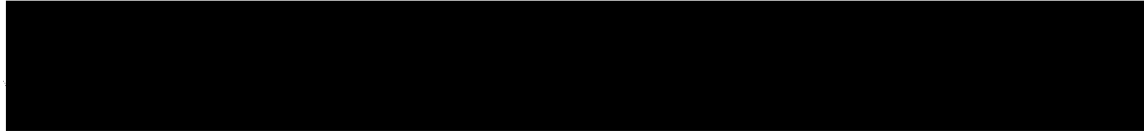
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SOVIET UNION
COMMO/ELEC/RADAR FACILITIES

25X1D



VIZINGA MICROWAVE FACILITY

61-03-█ N 050-06-█ E

25X1D



25X1D

25X1D

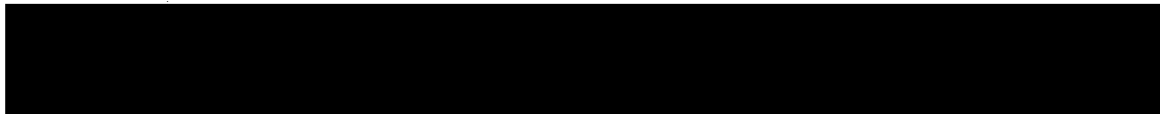
STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

1.3 NM SE OF VIZINGA. THIS UNSECURED FACILITY CONSISTS OF A LATTICE MICROWAVE TOWER WITH MICROWAVE ELEMENTS MIDWAY AND ON TOP OF THE TOWER, AND A CONTROL BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF MICROWAVE ELEMENTS AS TO TYPE, SIZE, AND ORIENTATION.

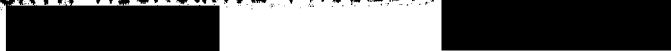
25X1D



YURYA MICROWAVE FACILITY

58-59-█ N 049-19-█ E

25X1D



25X1D

25X1D

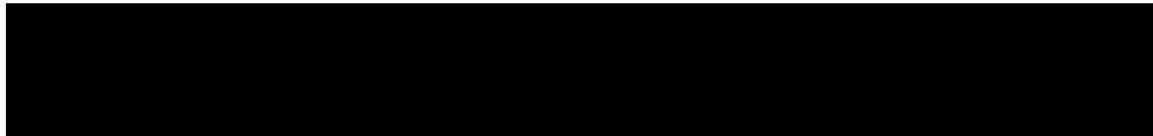
STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

3.7 NM SSE OF YURYA. THIS UNSECURED FACILITY CONSISTS OF A LATTICE MICROWAVE TOWER, A CONTROL BUILDING, AND A SUPPORT BUILDING. THE SMALL SCALE OF THE PHOTOGRAPHY PRECLUDES IDENTIFICATION OF THE TYPE, SIZE, AND ORIENTATION OF MICROWAVE ELEMENTS.

25X1D



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SOVIET UNION
AIR BASE FACILITIES

SIGNIFICANT RESULTS

25X1D

25X1D

KOYGORODOK AIRFIELD

60-26-██ N 050-58-██ E

25X1D

STATUS: OPERATIONAL

25X1A

PHYSICAL DESCRIPTION:

WESTERN EDGE OF KOYGORODOK. THE AIRFIELD CONSISTS OF A NNW/SSE SNOW-COVERED LANDING AREA, TWO PROBABLE SUPPORT BUILDINGS, AND A SEPARATELY SECURED POL STORAGE AREA CONTAINING A BUILDING, SEVEN HORIZONTAL POL TANKS, AND THREE POSSIBLE VEHICLES.

AIR ORDER OF BATTLE:

1 SMALL STRAIGHT-WING

25X1D

LEBYAZHYE/VYATKA AIRFIELD

57-24-██ N 049-32-██ E

25X1D

STATUS: OPERATIONAL

25X1A

25X1D

25X1D

PHYSICAL DESCRIPTION:

0.5 NM SOUTH OF LEBYAZHYE. THIS FACILITY CONSISTS OF A 1,271 X 178.8-METER (4,170 X 590-FOOT) NNW/SSE SERVICEABLE RUNWAY AND FOUR SUPPORT BUILDINGS.

AIR ORDER OF BATTLE:

1 SMALL STRAIGHT-WING

25X1D

NYANDA AIRFIELD

61-45-██ N 048-33-██ E

25X1D

STATUS: OPERATIONAL

25X1A

25X1D

25X1D

PHYSICAL DESCRIPTION:

0.5 NM EAST OF NYANDA. THIS FACILITY CONSISTS OF A 609.6 X 91.4-METER (2,000 X 300-FOOT) N/S PACKED SNOW LANDING AREA AND

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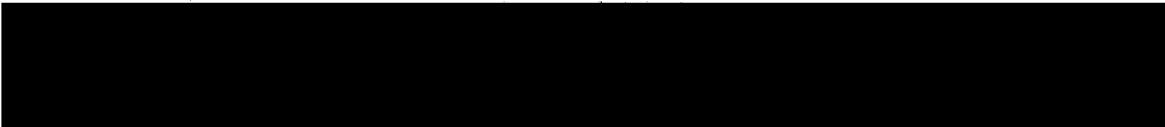
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SOVIET UNION
AIR BASE FACILITIES

A SUPPORT BUILDING.

AIR ORDER OF BATTLE:
NONE DISCERNIBLE

25X1D



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25X2

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SOVIET UNION
INDUSTRY

SIGNIFICANT RESULTS

25X1D

25X1D

25X1D

KAZAN ORGANIC SYNTHESIS PLANT

55-52- [REDACTED] N 048-59- [REDACTED] E

STATUS: OPERATIONAL

25X1A

REMARKS:

CONSTRUCTION CONTINUES ON THE FACILITY AND IT IS NOW APPROXIMATELY THREE QUARTERS COMPLETE. A THERMAL POWERPLANT IS UNDER CONSTRUCTION WITH A CONNECTING STEAMLINE TO THE MAIN POWERPLANT IN KAZAN.

25X1D

[REDACTED]

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Attachments

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KH-4 MISSION 1109, 5-23 MARCH 1970

SAM AND ABM DEPLOYMENT

	COUNTRY																TOTALS***						
	USSR*	ALBANIA	BULGARIA	CZECHOSLOVAKIA	EAST GERMANY	HUNGARY	POLAND	ROMANIA	YUGOSLAVIA	CHINA	MONGOLIA	NORTH KOREA	INDONESIA	EGYPT	SYRIA	CUBA**			INDIA	NORTH VIETNAM	AFGHANISTAN		
SAM sites	SA-1	56																		56	Confirmed		
		1																			1	Probable	
		1070	5	19	29	72	17	41	18	8	45	4	33	5	71	3	29	14	193	3	1679	Probable	
	SA-2																				9	Possible	
		54			1	4	1		2		8				3		3	4	3	1	85	Training	
SA-3		263			25	6	9							5						308	Confirmed		
																				3	Probable		
																				1	Possible		
SA-2 SAM Support Facilities	SA-3	1																		1	Training		
		215	1	5	6	7	4	7	3	2		2	4	7	7	4	4	1		279	Confirmed		
SA-3 SAM Assembly Facilities		2	1			3		1												7	Probable		
																					2	Possible	
SA-5 SAM Complexes		14				1														15	Confirmed		
		2																		2	Probable		
ABM Complexes																					15	Possible	
		78																			78	Confirmed	
																					3	Probable	
ABM Complexes		3																			6	Training	
		6																			6	Confirmed	
																					1	Probable	
	1																				1	Possible	
																						1	Training

*Does not include alternate SA-2 and SA-3 sites, USSR
 **Does not include abandoned sites
 ***Total reflects individual sites as of [redacted]
 †Includes 2 Probable R & D or Training sites at SMTC

25X1D

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