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PHOTOGRAPHIC INTERPRETATION REPORT

**SSM HOUSING AND SUPPORT AREA
AND OPERATIONAL SUPPORT FACILITIES
SHUANG-CHENG-TZU
MISSILE TEST CENTER
CHINA**

Declass Review
by NIMA/DOD

JUNE 1967
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SSM HOUSING AND SUPPORT AREA AND OPERATIONAL SUPPORT FACILITIES SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA

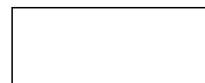
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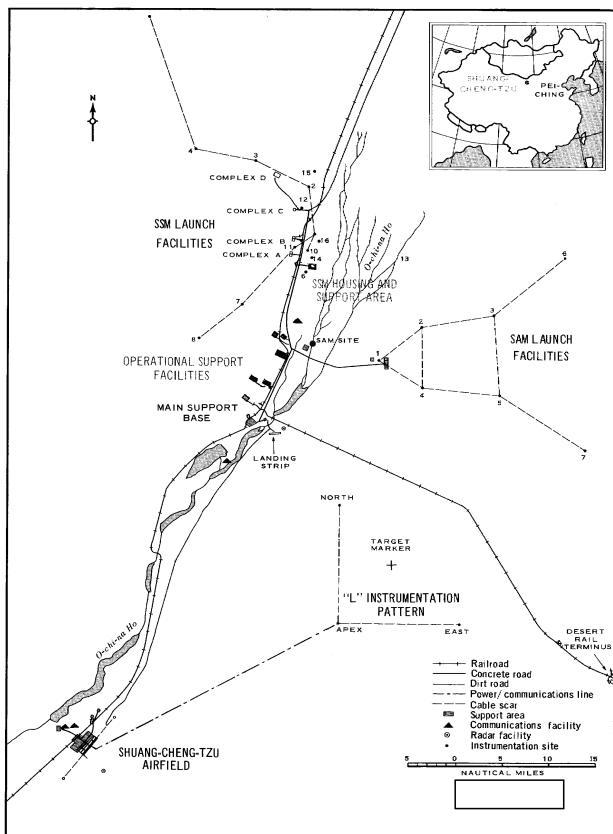


FIGURE 1. SHUANG-CHENG-TZU MISSILE TEST CENTER, CHINA.

INTRODUCTION

This is one of a series of reports 1/, 2/, 3/ updating NPIC/R-1065/64, Shuang-cheng-tzu Missile Test Center, China 4/. Covered in this report are the SSM Housing and Support Area and the Operational Support Facilities which are located between the Main Support Base and the SSM Launch Facilities (Figure 1). The Operational Support Facilities consist of the Revetted Storage Areas (Revetted Storage and Handling Area and Revetted Storage Area), the SSM-SAM Assembly and Checkout Complex, and the Probable Propellant Handling and Storage Area.

SUMMARY

The SSM Housing and Support Area and the Operational Support Facilities have shown little change since [redacted] which was basis for NPIC/R-1065/64 and is still the best coverage of the facilities. No new facilities as large or as elaborate as the older ones have been added, but numerous areas of unidentified activity have become evident. The previously reported area of unidentified activity west-northwest of the Probable Propellant Handling and Storage Area has been identified as containing a suspect air liquefaction plant. The area was present in [redacted] and has grown slowly since then. The 7 areas of unidentified activity near the SSM-SAM Assembly and Checkout Complex are all new since 1965. It cannot be determined if any of the new areas are related to the Operational Support Facilities or if they perform unrelated functions.

All of the areas included in this report had been completely covered by the end of 1966 by good-quality KH-7 [redacted] photography except the Probable Propellant Handling and Storage Area and the area west-northwest of it. All measurements given are in 5-foot increments.

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Table 1. Activity at the SSM Housing and Support Area

Date	Mission	Activity	Date	Mission	Activity
		<p>1 [] transporter-erector; 1 [] transporter-trailer; 12 - U/I V/PE (vehicles/pieces of equipment) Possible transporter-erector; several U/I V/PE 1 transporter-erector; at least 10 U/I V/PE 24 trucks; at least 10 U/I V/PE 4-5 U/I V/PE 5 probable propellant trailers; 20 trucks; 6 U/I V/PE IDO (identification only) None Several U/I V/PE in motor pool; tents & V/PE bivouaced nearby 1 transporter-erector & numerous V/PE in motor pool & on road; 1 long vehicle on road heading south from area; at least 60 tents and numerous (25+) V/PE nearby Numerous V/PE bivouaced nearby; at least 60 tents and numerous V/PE bivouaced nearby Same as [] IDO Tents & V/PE bivouaced nearby (no further readout could be made) Tents & V/PE bivouaced nearby; numerous U/I V/PE in motor pool IDO Numerous U/I V/PE in motor pool; no activity in bivouac area Numerous U/I V/PE in motor pool 1 transporter-erector; 1 possible transporter-trailer; 22 trucks; 12 U/I V/PE; at least 15 tents in housing section 1 probable transporter-erector; several U/I V/PE IDO 1 transporter-erector; 11 U/I V/PE 1 transporter-erector; at least 7 U/I V/PE 1 possible transporter-erector; several possible U/I V/PE 1 transporter-erector; at least 9 U/I V/PE</p> <p>1 transporter-erector; several U/I V/PE 1 possible transporter-erector; several U/I V/PE Cloud covered IDO IDO 8 trucks; 4 probable propellant trailers; 2 U/I V/PE Several U/I V/PE Several possible V/PE Several possible V/PE</p>			<p>Several U/I V/PE; only partially observed No equipment present 1 suspect transporter-erector; several possible V/PE 1 probable mobile gantry crane; 4 U/I V/PE None identified None</p> <p>At least 3 U/I V/PE Several U/I V/PE At least 1 U/I V/PE At least 3 V/PE; at least 6 tents bivouaced nearby At least 1 U/I V/PE; at least 6 tents bivouaced nearby At least 6 U/I V/PE; at least 6 tents bivouaced nearby At least 6 U/I V/PE; at least 6 tents bivouaced nearby No equipment in motor pool; 6 tents bivouaced nearby At least 1 U/I V/PE; 6 tents bivouaced nearby 3 U/I V/PE; 6 tents bivouaced nearby 2 long V/PE; at least 6 other U/I V/PE; no tents in bivouac area No equipment No equipment</p> <p>5 U/I V/PE & 8 tents in motor pool; 7 U/I V/PE & 19 tents in housing section; 57 U/I V/PE & 22 tents in bivouac area Several U/I V/PE No equipment present IDO</p> <p>IDO IDO None None</p> <p>IDO IDO IDO</p>

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SSM HOUSING AND SUPPORT AREA

The SSM Housing and Support Area (Figures 2, 3, and 4) is located at 41-15N 100-19E, approximately 0.75 nautical mile (nm) east of the access road serving the launch complexes and approximately 1.5 nm east-southeast of Launch Complex A. The area contains, as it did in [redacted] a housing section, a water supply facility, an equipment maintenance and storage section, and a meteorological station (Meteorological Station 1). These facilities provide direct support for the SSM launch complexes.

North-northwest of the housing section and between it and the access road serving the launch complexes is an observation point. It consists of a building built into a small hill and near the top of the hill. A ground scar connects the point with Launch Complex A. Construction may have begun on the point as early as [redacted]

The number of buildings in the area has increased since [redacted] for a total of approximately 50 buildings, approximately 10 new since [redacted]. Some of the buildings have also been enlarged since that time. A few small structures have been removed and most of the fences have also been removed. The buildup that has taken place in this area has been more gradual than that observed at Launch Complexes B and D. 1/

There has been a considerable increase in land used for garden plots throughout the area. To support these plots, at least 4 water holes were excavated and irrigation canals were constructed. Within the housing section some

of the garden plots have been removed and some attempt at landscaping has been made. The number of basketball courts has also increased.

Table 1 gives observed activity at the SSM Housing and Support Area by mission and can be used with Table A-1 in [redacted] 1/ which gives observed activity at Launch Complex A. The [redacted] transporter-erector and the [redacted] transporter-trailer observed in the motor pool on [redacted] are the same size and type as those observed at Launch Complexes A and D. 1/ The transporter-trailer has also been observed in the SSM-SAM Assembly and Checkout Complex.

The housing section contains barracks, probable housing, barracks/storage, messhalls (1 probable), unidentified buildings, probable storage, a heatplant, and a guardhouse (items 1-14, Figure 4). Wings were added to the messhall, the probable messhall constructed, and 1 wing added to the probable housing between [redacted]

One of the unidentified buildings was constructed between [redacted] One probable storage building (item 10) was constructed between [redacted] and another (item 11) between [redacted] Those 2 buildings appear to be connected to the buildings on either side (items 9 and 12).

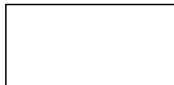
The largest new building and 1 of the largest in the area is the C-shaped probable administration building (item 15) located between the housing section and the equipment maintenance section. The center section of the building is 3 stories high and may be used to observe activities at Launch Complex B. Evidence of digging for a foundation

was first observed on [redacted] coverage. Construction apparently started on this building at the same time as the construction of Launch Complex B and the modification to Launch Complex C. The building was still under construction in [redacted] but was complete by [redacted]

The water supply facility is in the northeast part of the area and contains a water tower, a pumphouse, and an earth-mounded water tank (items 16-18).

The equipment maintenance and storage section contains equipment maintenance and storage buildings, storage and probable storage, and a guardhouse (items 19-26). A grease rack is at 1 end of the section and a new parking apron at the other. A wing was added to the equipment maintenance building and 1 of the probable storage buildings was extended between [redacted] Construction began on 1 storage building (item 20) between [redacted] and on the other (item 21) between [redacted]

The meteorological station contains a balloon launch platform, unidentified buildings, a drive-in building, a bunker, an earth-mounded tank, administration and possible administration buildings, probable storage, and a guardhouse (items 27-39). A small secured area in the center of the station contains 5 weather instrumentation shelters (item 40). The possible administration building, 1 of the probable storage buildings (item 36), and the addition to 1 of the unidentified buildings were constructed between [redacted] The drive-in building and another probable storage building (item 38) were under construction [redacted]



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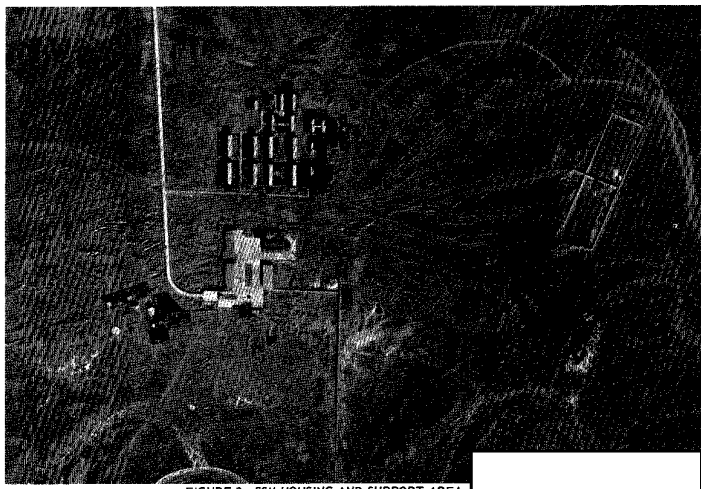
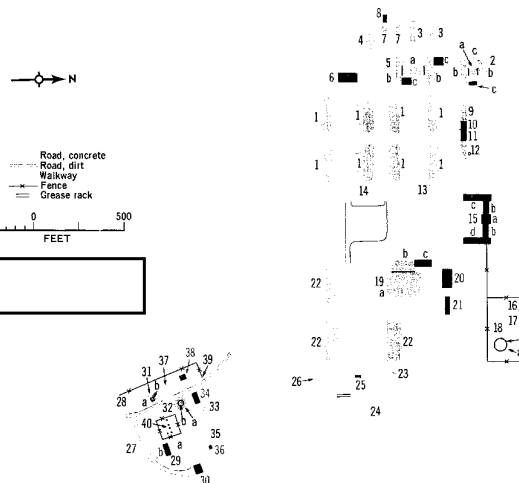


FIGURE 2. SSM HOUSING AND SUPPORT AREA.



ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)	ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	8 BARRACKS, 2-STORY, GABLE ROOF	145 X 40	19	EQUIPMENT MAINTENANCE BLDG	
2	PROB HOUSING, SINGLE STORY		a	MAIN SECTION, 2 BAY, GABLE ROOF	135 X 100
a	CENTER SECTION, GABLE ROOF	35 X 30	b	WING, GABLE ROOF	35 X 45
b	2 WINGS, GABLE ROOF	90 X 35	c	WING, GABLE ROOF	65 X 25
c	2 BARRACKS/STORAGE, SINGLE STORY	35 X 10	20	STORAGE BLDG, FLAT ROOF	75 X 40
3	2 BARRACKS/STORAGE, SINGLE STORY		21	STORAGE BLDG, FLAT ROOF	70 X 20
4	BARRACKS/STORAGE, SINGLE STORY	115 X 35	22	3 EQUIPMENT STORAGE SHEDS, SHED ROOF	160 X 60
5	MESSHALL, GABLE ROOF	65 X 30	23	PROB STORAGE BLDG, FLAT ROOF	20 X 15
a	CENTER SECTION	90 X 30	24	PROB STORAGE BLDG, FLAT ROOF	45 X 20
b	2 WINGS	110 X 35	25	PROB STORAGE BLDG, FLAT ROOF	45 X 10
c	2 WINGS	30 X 30	26	GUARDBOUSE, GABLE ROOF	20 X 20
6	PROB MESSHALL, GABLE ROOF	75 X 35	27	BALLOON LAUNCH PLATFORM	30 DIAM
7	2 U/I BLDGS, FLAT ROOF	25 X 25	28	U/I BLDG, GABLE ROOF	25 X 25
8	U/I BLDG, FLAT ROOF	35 X 15	29	U/I BLDG	
9	PROB STORAGE BLDG, GABLE ROOF	80 X 25	a	WING, FLAT ROOF	40 X 25
10	PROB STORAGE BLDG, GABLE ROOF	30 X 25	b	WING, GABLE ROOF	45 X 20
11	PROB STORAGE BLDG, GABLE ROOF	40 X 25	30	DRIVE-IN BLDG, FLAT ROOF	35 X 30
12	HEATPLANT, GABLE ROOF	70 X 25	31	BUNKER	
13	PROB STORAGE BLDG, FLAT ROOF	40 X 25	a	BASE	35 X 35
14	GUARDBOUSE, GABLE ROOF	20 X 20	b	TOP	15 X 15
15	PROB ADMIN BLDG		32	TANK, EARTH MOUNDED	
a	CENTER SECTION, 3 STORY FLAT ROOF	40 X 30	a	BASE	55 DIAM
b	2 WINGS, SINGLE STORY, GABLE ROOF	55 X 30	b	TOP	25 DIAM
c	WING, SINGLE STORY, GABLE ROOF	110 X 25	33	ADMIN BLDG, GABLE ROOF	55 X 40
d	WING, 2 STORY, GABLE ROOF	110 X 25	34	POSS ADMIN BLDG, GABLE ROOF	45 X 20
16	WATER TOWER	80 H X 15 DIAM	35	PROB STORAGE BLDG, FLAT ROOF	20 X 10
17	PUMPHOUSE, FLAT ROOF	30 X 15	36	PROB STORAGE BLDG, FLAT ROOF	10 X 10
18	WATER TANK, EARTH MOUNDED		37	PROB STORAGE BLDG, FLAT ROOF	35 X 15
a	BASE	80 DIAM	38	PROB STORAGE BLDG, FLAT ROOF	20 X 20
b	TOP	45 DIAM	39	GUARDBOUSE, FLAT ROOF	5 X 5
			40	5 WEATHER INSTRUMENTATION SHELTERS	--

FIGURE 4. SSM HOUSING AND SUPPORT AREA.

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OPERATIONAL SUPPORT FACILITIES

REVETTED STORAGE AREAS

Two revetted storage areas are located 9.0 nm north-east of the Main Support Base. The area located at 41-07N 100-16E is called the Revetted Storage and Handling Area; the other, located at 41-07N 100-15E, is called the Revetted Storage Area.

Revetted Storage and Handling Area

The Revetted Storage and Handling Area (Figures 5, 6, and 7) contains approximately 12 buildings, 1 new since [redacted] Since that time also, 1 building has been torn down, a small wall and sidewalks have been added to the barracks/administration buildings, a tank-like structure has been constructed, the fence around part of the support facilities has been removed, and a portion of the concrete hardstand near the handling building has been darkened in tone or removed. The garden plot has also been enlarged. Activity was observed on [redacted] when 6 tents and several possible vehicles/pieces of equipment were present. This is the only time that tents and vehicles have been observed within this area and is 10 days [redacted]

Supporting facilities for the area include 2 barracks/administration buildings (items 1 and 2, Figure 7), a heat-plant (item 3), 2 earth-mounded water tanks (items 4), a pumphouse (item 5), and a water tower (item 6). One of the barracks/administration buildings was constructed be-

tween [redacted] The tank-like structure (item 7) was constructed in [redacted] One side of the structure has a wedge-shaped indentation in it. Two wellhouses, 1 constructed in [redacted] are near the area.

The main portion of the area is separately secured and well lighted. A guardhouse (item 8) is at the entrance and guard towers (items 9) are at each corner.

The handling building (item 10) is at the approximate center and is surrounded by a concrete hardstand. The northwestern part of the building is approximately 10 feet high and the southeastern part approximately 15 feet high. Overhead handling devices are at each end and lightning arresters on each side. The small building at the end of the hardstand may be used for storage.

The storage structure in the northwesternmost corner (item 12) is revetted and has a lightning arrester. Touching the building is a domed cylindrical-type structure similar to that at Moskva SAM Storage Site 6, USSR. The next structure (item 13) is a drive-in, earth-mounded, round bunker.

All of the remaining storage buildings (items 14-18) are revetted, fronted by a concrete hardstand, and have at least 1 lightning arrester each. Two of the buildings (items 15 and 17) have overhead handling devices and all but 1 (item 18) have covered entrances.

Revetted Storage Area

The Revetted Storage Area (Figures 8, 9, and 10) is approximately 0.5 nm west of the Revetted Storage and

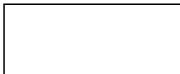
Handling Area. The entire area is secured and lighted and contains approximately 15 buildings, 2 of them new and 1 extended since [redacted] Also since that time, 1 small building has been removed and a small wall added. There are still no garden plots in the area. [redacted]

Activity was observed in the area on [redacted] when 2 tents and 12 vehicles/pieces of equipment were present. As with the Revetted Storage and Handling Area, this also is the only time that tents and vehicles/pieces of equipment have been observed in the area.

The road and rail serving the area have never been completed even though those within the fence were already complete when first observed in [redacted] A guardhouse (item 1, Figure 10) is at the entrance to the area and a guard tower (item 2) at each corner. The building next to the fence (item 3) was built between [redacted] One of the barracks/administration buildings (items 4 and 5) was extended between [redacted] items 6 and 7 are small unidentified buildings. The heatplant (item 8) was constructed between [redacted]

Construction began on the water/waste treatment facility between [redacted] The ditch extending south of the fence was dug in [redacted] At the end of the ditch there appears to be a hole which may contain a small tank.

Four road-served semiburied tanks (items 9) are interspersed among the revetted storage buildings (items 10-16). Each of the storage buildings is also road served and each has at least 1 lightning arrester. Three of the buildings (items 10-12) have overhead handling devices.



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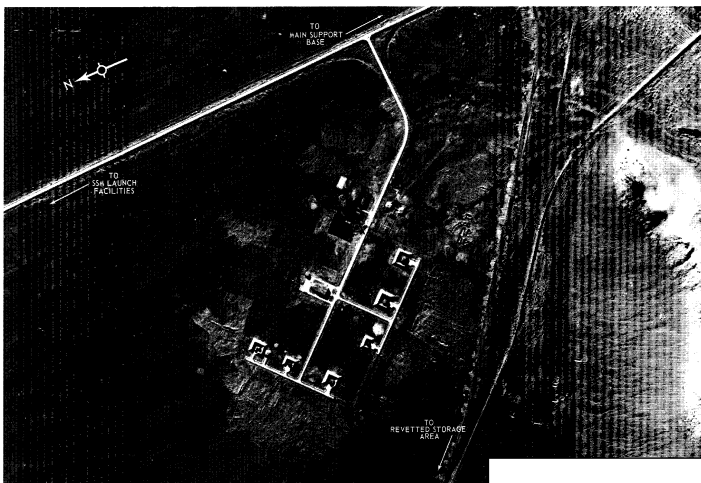


FIGURE 5. REVETTED STORAGE AND HANDLING AREA,

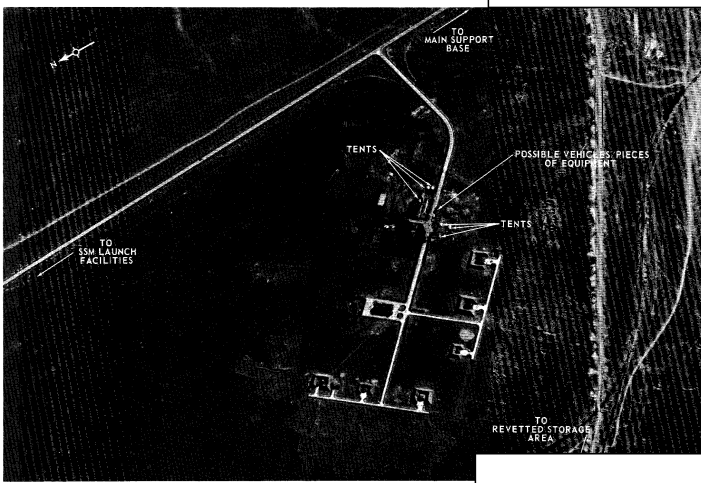
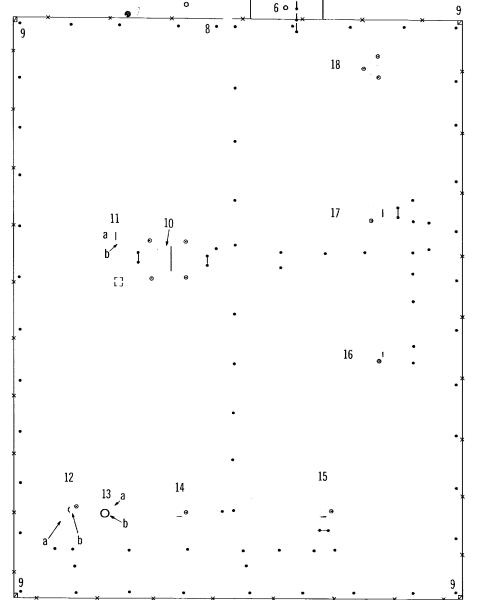
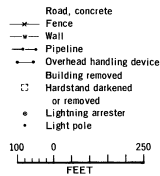
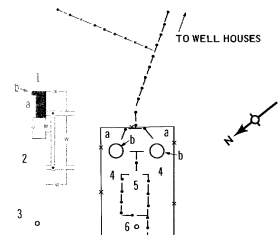


FIGURE 6. REVETTED STORAGE AND HANDLING AREA,

ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	BARRACKS/ADMIN, SINGLE STORY, GABLE ROOF	
a	MAIN SECTION	65 X 25
b	EXTENSION	10 X 10
2	BARRACKS/ADMIN, SINGLE STORY, GABLE ROOF	
a	MAIN SECTION	110 X 30
b	EXTENSION	50 X 25
3	HEATPLANT, GABLE ROOF	
a	BASE	60 DIAM
b	TOP	35 DIAM
4	2 WATER TANKS, EARTH MOUNDED	
a	BASE	35 X 15
b	TOP	80 H X 10 DIAM
5	PUMPHOUSE, FLAT ROOF	
a	BASE	20 DIAM
b	TOP	15 X 10
6	WATER TOWER	
a	BASE	15 X 10
b	TOP	10 X 10
7	U/I STRUCTURE	
a	BASE	60 DIAM
b	TOP	35 DIAM
8	GUARDBOUSE, GABLE ROOF	
a	BASE	15 X 10
b	TOP	10 X 10
9	4 GUARD TOWERS, FLAT ROOF	



ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)	ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
10	BILEVEL HANDLING BLDG, GABLE ROOF	105 X 60"	14	STORAGE BUILDING, FLAT ROOF	
11	POSSIBLE STORAGE BLDG, FLAT ROOF		a	W/2 VENTS	25 X 10
a	REAR SECTION	20 X 10	15	STORAGE BUILDING, GABLE ROOF	
b	FRONT SECTION	25 X 20	a	W/2 VENTS	30 X 30
12	STORAGE STRUCTURE		b	W/2 VENTS	20 X 10
a	BUILDING, FLAT ROOF	30 X 10	16	STORAGE BUILDING, FLAT ROOF	
b	DOMED CYLINDRICAL-TYPE STRUCTURE	15 DIAM	a	W/2 VENTS	35 X 30
13	STORAGE BUNKER, EARTH-MOUNDED		b	W/2 VENTS	20 X 10
a	BASE	60 DIAM	17	STORAGE BUILDING, GABLE ROOF	
b	TOP	25 DIAM	a	W/2 VENTS	40 X 40
			b	W/2 VENTS	

FIGURE 7. REVETTED STORAGE AND HANDLING AREA.

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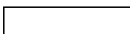
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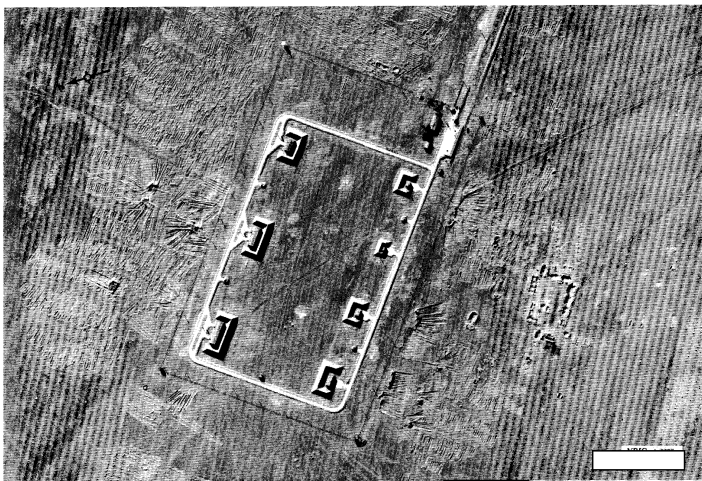
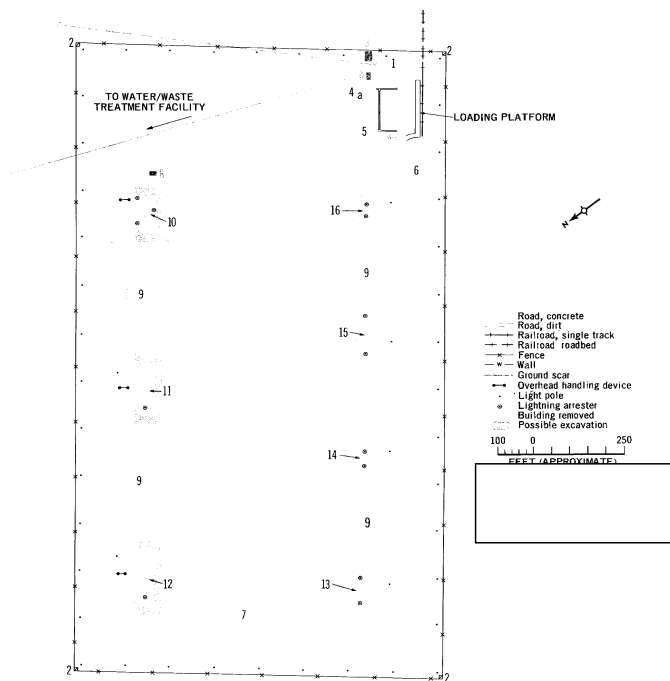


FIGURE 8. REVETTED STORAGE AREA,



FIGURE 9. REVETTED STORAGE AREA,



ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)	ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	GUARDHOUSE, GABLE ROOF	15 X 10	10	STORAGE BLDG, GABLE ROOF W/2 VENTS	60 X 30
2	4 GUARD TOWERS, FLAT ROOF	10 X 10	11	STORAGE BLDG, GABLE ROOF W/2 VENTS	100 X 35
3	U/I BUILDING, FLAT ROOF	30 X 20	12	STORAGE BLDG, GABLE ROOF W/2 VENTS	115 X 30
4	BARRACKS/ADMIN, SINGLE STORY, GABLE ROOF		13	STORAGE BLDG, FLAT ROOF W/1 VENT	60 X 20
a	MAIN SECTION	60 X 30	14	STORAGE BLDG, FLAT ROOF W/2 VENTS	30 X 20
b	EXTENSION	20 X 15	15	STORAGE BLDG, FLAT ROOF W/2 VENTS	20 X 10
5	BARRACKS/ADMIN, SINGLE STORY, GABLE ROOF	35 X 25	16	STORAGE BLDG, FLAT ROOF, W/1 VENT	20 X 15
6	U/I BUILDING, FLAT ROOF	15 X 10			
7	U/I BUILDING, FLAT ROOF	15 X 10			
8	HEAT PLANT, FLAT ROOF	20 X 15			
9	4 SEMIBURIED TANKS	30 DIAM			

FIGURE 10. REVETTED STORAGE AREA.

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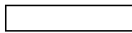
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SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX

The SSM-SAM Assembly and Checkout Complex (Figures 11, 12, and 13) is located at 41-06N 100-16E, 7.5 nm north-east of the Main Support Base. It consists of a Housing and Support Area, the SSM Assembly and Checkout Area, and the SAM Assembly and Checkout Area. All areas are served by rail and concrete road and are well lighted. (Lights are not shown for the housing area.)

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The complex contains approximately 70 buildings, 8 of them new and 1 extended since [redacted]. Also since that time, a concrete road has been built to serve 2 of the new buildings, the rail line in the SSM area has been extended slightly, and 1 building in the SAM area has been torn down. One of the turns in the road in the SSM area has been made wider by being filled in and the number of garden plots in the complex has increased greatly since [redacted].

Housing and Support Area

The Housing and Support Area contains approximately 30 buildings. The northern portion of the area contains barracks, housing, messhalls, and support buildings (items 1-7, Figure 13). On the northern side of the rail line is a rail transfer point and a motor pool (items 8-12) with a grease rack. On the southern side of the rail line is another transfer point with storage buildings (items 13-16) and a liquid unloading and storage facility (items 17-19). Items 17-19 are connected by pipeline. Opposite the pumphouse (item 19) next to the loop road is a fuel pump. The function of the building (item 20) enclosed by the other loop road is undetermined.

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The 4 buildings in the southern part of the area are dissimilar in size and shape. Three of them (items 21-23) were constructed between [redacted]. The fourth (item 24) was built in [redacted].

A small heatplant (item 25) supplies the northern part of the housing and support area while the large heatplant (item 26) supplies the remainder of the complex. Earth-mounded tanks (items 27), a pumphouse (item 28), and a water tower (item 29) are the water supply facilities for the complex. A tank-like structure (item 30) near the pump or valve house has a wedge-shaped cut in it. The object is new since [redacted] and is similar to one at the Revetted Storage and Handling Area.

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On [redacted] coverage the northern part of the area and

the semiburied tanks and pump or valve house were secured. They no longer appear to be secured.

SSM Assembly and Checkout Area

The SSM Assembly and Checkout Area is secured and contains approximately 10 buildings and a soccer field. Three rail spurs serve the area and 1 of the spurs enters the assembly and checkout building (item 1). The spur at the western end of the area was extended beyond the fence between [redacted].

The assembly and checkout building consists of a tall gable-roofed portion and a low flat-roofed portion. The small building next to it (item 2) was extended between [redacted].

Item 5 is a small, high (approximately 20 to 25 feet) building and its function is undetermined. There is a similar building (item 15) in the SAM Assembly and Checkout Area and another in the Probable Propellant Handling and Storage Area.

The other buildings (items 2-4 and 6-8) around the assembly and checkout building are possibly or probably storage.

Two equipment sheds (items 9) are next to the equipment maintenance building (item 10). Buildings identical to these are found in the SAM Assembly and Checkout Area and in the SSM Housing and Support Area. It is on the large concrete hardstand opposite the equipment and maintenance building that numerous vehicles/pieces of equipment have been observed. A grease rack is on the road opposite the eastern equipment shed.

The northernmost building (item 11) is probably a horizontal engine test cell and is similar to a building at the operational support facility of Chin-hsi Cruise Missile Launch Site. At 1 end is an open extension containing a blast deflector or flame bucket and on 1 side is a shed.

SAM Assembly and Checkout Area

The SAM Assembly and Checkout Area is secured and contains approximately 30 buildings. A rail spur serves 1 building, the probable receiving and storage building (item 1). South of that building is a probable storage building (item 2). The function of the next building (item 3) is undetermined. It was probably built in [redacted]. The next 5 buildings (items 4-7) are all drive-through and are in a straight line. An overhead handling device is located between buildings 6 and 7. The buildings probably are part of

the assembly and checkout procedure. The turnouts along the road permit leaving the assembly and checkout line at any point in the procedure if the line flows from east to west. If the line flows from west to east, the turnouts permit entry at any point.

Two of the revetted buildings (item 8) have overhead handling devices. The third (item 9) does not.

Item 10 appears to be identical to item 7 except that it has no overhead handling device. Also, it is not clear whether the building fits into the assembly and checkout line.

The large revetted storage building (item 11) at the western end of the area is fronted by a large concrete hardstand. A small unidentified object, new since [redacted] is on each side of the hardstand. There is no building or similar small objects at the adjacent hardstand and revetment.

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The small building (item 12) in the northeast corner appears to have a stick mast on its roof. The 2 buildings (items 13) along the southern road are probably storage.

Two buildings (items 14 and 16) provide possible housing and an adjacent building (item 17) is possible storage. It was built in [redacted]. Item 15 is identical to item 5 in the SSM Assembly and Checkout Area.

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The 5 equipment sheds (items 18) and the equipment maintenance building (item 19) are identical to items 9 and 10 in the SSM Assembly and Checkout Area. Two grease racks are located on the eastern road leading to the buildings.

A stick mast approximately 85 feet high is on the roof of a small building (item 20). The function of the building is undetermined.

A small building north of 1 of the equipment sheds was torn down in [redacted]. A probable steamline goes through the former location of this building and extends from the large heatplant in the housing and support area (item 26) to the large new building in the SAM Assembly and Checkout Area (item 3).

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The function of the buildings annotated A and B in the northwest area of the complex cannot be determined. They are located outside the SSM and SAM areas and it cannot be determined if they are related to the SSM area, the SAM area, or the area of unidentified activity. Construction began on the buildings in [redacted]. Item A is approximately 45 by 40 feet overall and has a flat roof. Item B appears to consist of 2 buildings and a walled area and is approximately 50 by 30 feet overall.

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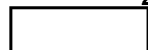
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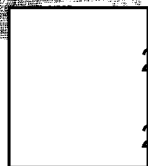


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FIGURE 11. SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX. 

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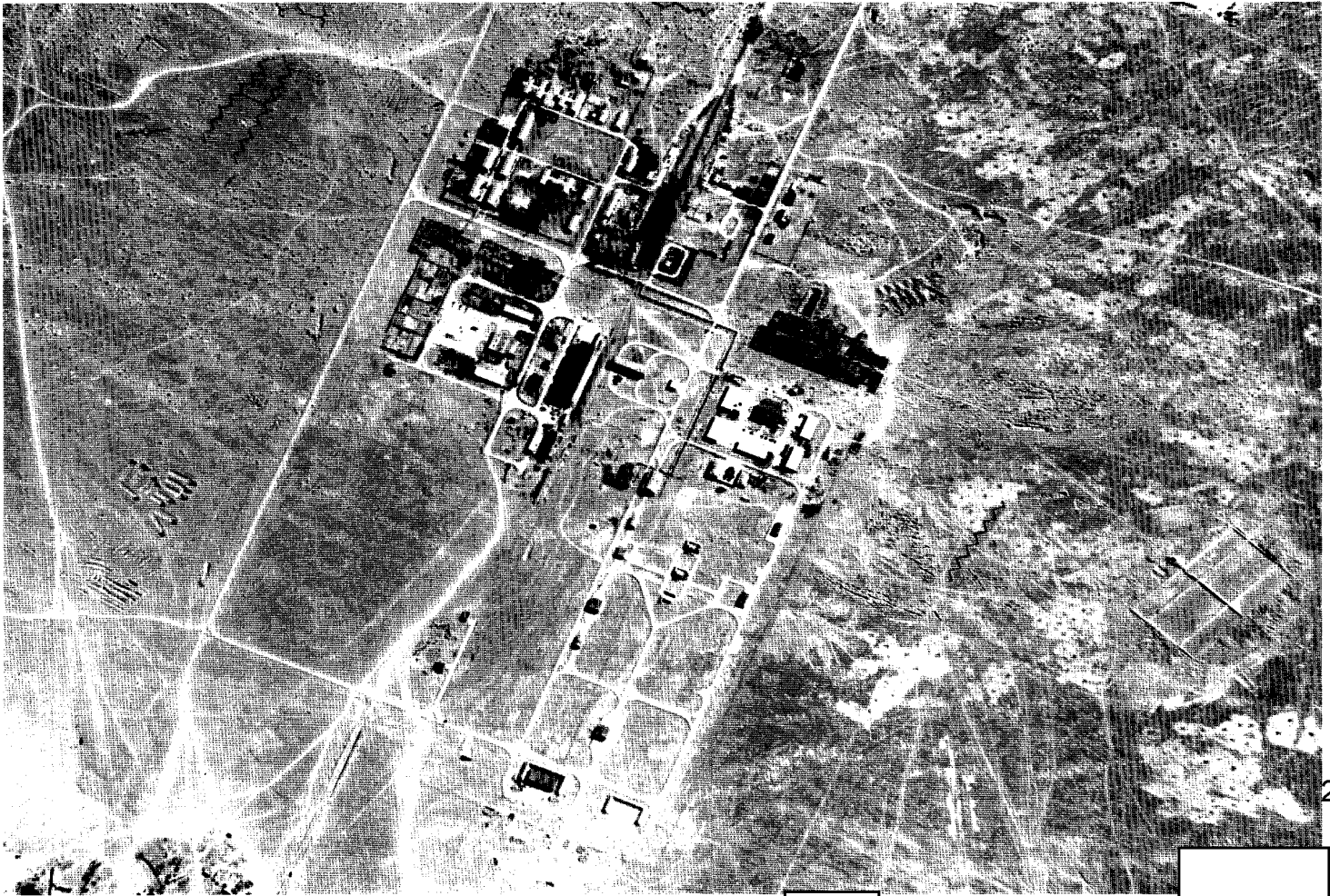


FIGURE 12. SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX.

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SSM ASSEMBLY AND CHECKOUT AREA

ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	ASSEMBLY & CHECKOUT BLDG	385 X 85
a	GABLE ROOF SECTION	430 X 20
b	FLAT ROOF SECTION	100 X 20
2	POSSIBLE STORAGE BLDG, FLAT ROOF	175 X 40
3	POSSIBLE STORAGE BLDG, GABLE ROOF	170 X 30
4	POSSIBLE STORAGE BLDG, GABLE ROOF	29 X 15
5	U/I BLDG, FLAT ROOF	170 X 30
6	POSSIBLE STORAGE BLDG, GABLE ROOF	90 X 60
7	POSSIBLE STORAGE BLDG, GABLE ROOF	35 X 35
8	POSSIBLE STORAGE BLDG, HIP ROOF	75 X 40
9	2 EQUIPMENT STORAGE SHEDS, SHED ROOF	160 X 60
10	EQUIPMENT MAINTENANCE BLDG	135 X 100
a	MAIN SECTION, 2 BAY, GABLE ROOF	95 X 45
b	WING, GABLE ROOF	95 X 45
11	PROBABLE HORIZONTAL ENGINE TEST CELL	
a	MAIN SECTION, GABLE ROOF	45 X 30
b	OPEN ROOF SECTION	30 X 25
c	FLAT ROOF SECTION	25 X 10

HOUSING AND SUPPORT AREA

ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	4 BARRACKS, 2-STORY GABLE ROOF	145 X 45
2	2 PROBABLE HOUSING, SINGLE STORY, GABLE ROOF	
a	NORTH EXTENSION	30 X 15
b	WING	115 X 35
c	CENTER SECTION	35 X 30
3	2 SINGLE-STORY BARRACKS/STORAGE BLDGS, GABLE ROOF	110 X 35
4	MESSHALL	
a	CENTER SECTION, GABLE ROOF	90 X 35
b	2 WINGS, GABLE ROOF	110 X 35
5	MESSHALL, GABLE ROOF	115 X 35
6	ADMIN BLDG, GABLE ROOF	195 X 35
7	SUPPORT BLDG, GABLE ROOF	80 X 25
8	POSSIBLE STORAGE BLDG, GABLE ROOF	100 X 35
9	EQUIPMENT SHED, GABLE ROOF	160 X 40
10	EQUIPMENT SHED, FLAT ROOF	105 X 30
11	BLDG, RTP-ASSOCIATED, GABLE ROOF	
a	MAIN SECTION	90 X 35
b	EAST EXTENSION	25 X 25
12	BLDG, RTP-ASSOCIATED, FLAT ROOF	55 X 30
13	STORAGE BLDG, FLAT ROOF	15 X 10
14	STORAGE BLDG, GABLE ROOF	55 X 30
15	STORAGE BLDG, GABLE ROOF	55 X 35
16	POSSIBLE STORAGE BLDG, GABLE ROOF	60 X 35
17	2 LIQUID UNLOADING COLUMNS	--
18	FUEL STORAGE BUNKER	30 X 15
19	PUMP-HOUSE, FLAT ROOF	65 X 30
20	U/I BLDG, IRREGULAR ROOF	
21	POSSIBLE STORAGE BLDG, FLAT ROOF	50 X 30
22	POSSIBLE STORAGE BLDG, FLAT ROOF	65 X 25
23	POSSIBLE STORAGE BLDG, FLAT ROOF	65 X 40
24	POSSIBLE STORAGE BLDG, GABLE ROOF	
a	HEATPLANT FLAT ROOF	60 X 25
b	HEATPLANT, IRREGULAR ROOF	25 X 20
25	HEATPLANT, IRREGULAR ROOF	100 X 55
26	2 EARTH-MOUNDED WATER TANKS	
a	BASE	DIAM 60
b	TOP	DIAM 45
27	PUMP-HOUSE, FLAT ROOF	40 X 15
28	WATER TOWER	100 H X 20 DIAM
29	U/I STRUCTURE	20 DIAM
30		

SAM ASSEMBLY AND CHECKOUT AREA

ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	PROBABLE RECEIVING AND STORAGE BLDG, GABLE ROOF	175 X 50
2	PROBABLE STORAGE BLDG, GABLE ROOF	55 X 40
3	U/I BLDG, FLAT ROOF	60 X 55*
a	NORTH WING	145 X 50*
b	SOUTH WING	145 X 50*
4**	BLDG, MONITOR ROOF	135 X 70
5**	2 BLDGS, GABLE ROOF	65 X 30
6**	BLDG, GABLE ROOF	55 X 40
7**	BLDG, GABLE ROOF	65 X 55
8	2 REVETTED STORAGE BLDGS, FLAT ROOF	35 X 30
9	REVETTED STORAGE BLDG, FLAT ROOF	35 X 15
10	U/I BLDG, GABLE ROOF	65 X 55
11	REVETTED STORAGE BLDG, 3 BAY, GABLE ROOF	145 X 75
12	U/I BLDG, FLAT ROOF	20 X 20
13	2 PROBABLE STORAGE BLDGS, GABLE ROOF	80 X 30
14	POSSIBLE HOUSING, 2 STORY HIP ROOF	105 X 45
15	U/I BLDG, FLAT ROOF	20 X 15
16	POSSIBLE HOUSING, SINGLE STORY, HIP ROOF	85 X 50
17	POSSIBLE STORAGE BLDG, FLAT ROOF	65 X 25
18	5 EQUIPMENT STORAGE SHEDS, SHED ROOF	160 X 60
19	EQUIPMENT MAINTENANCE BLDG	
a	MAIN SECTION, 2 BAY GABLE ROOF	135 X 100
b	WING, GABLE ROOF	95 X 45
20	U/I BLDG, GABLE ROOF	30 X 30

*Overall dimensions
 **Items 4-7 are probably associated with assembly and checkout procedure

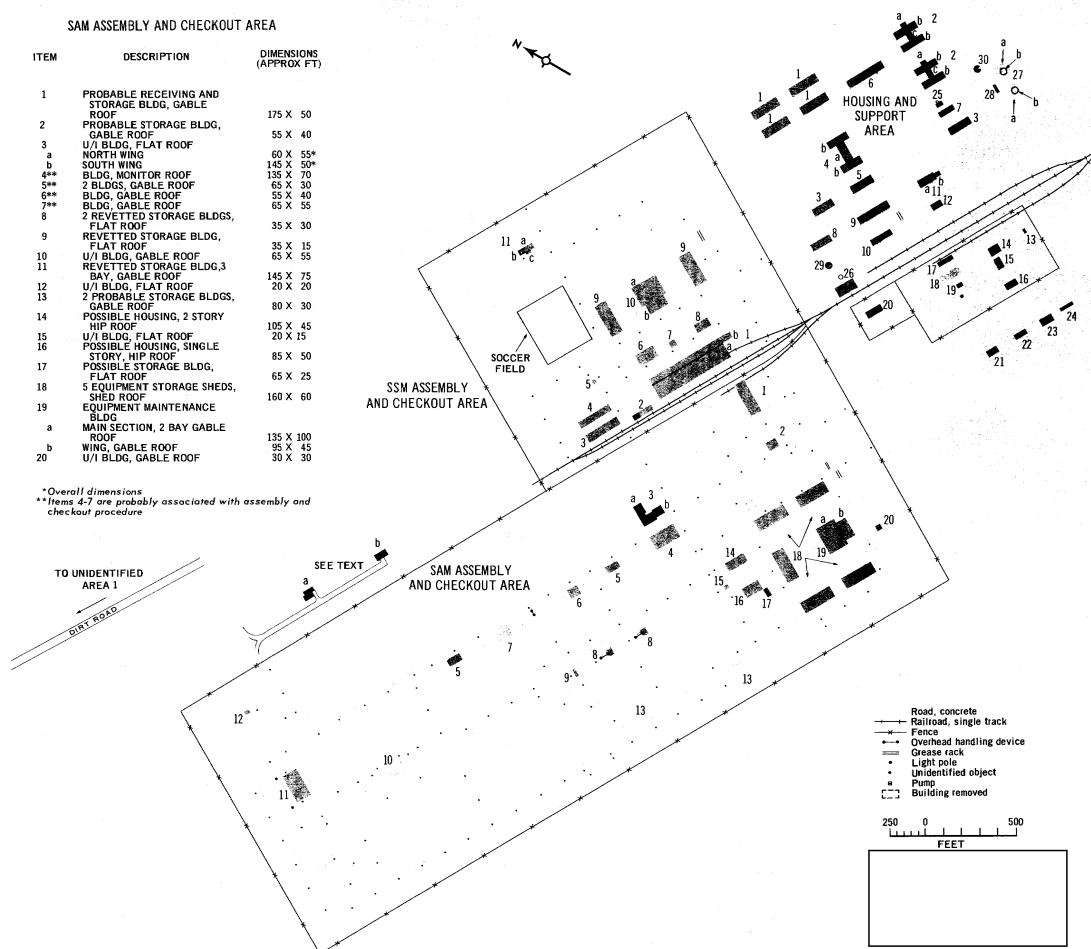


FIGURE 13. SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX.

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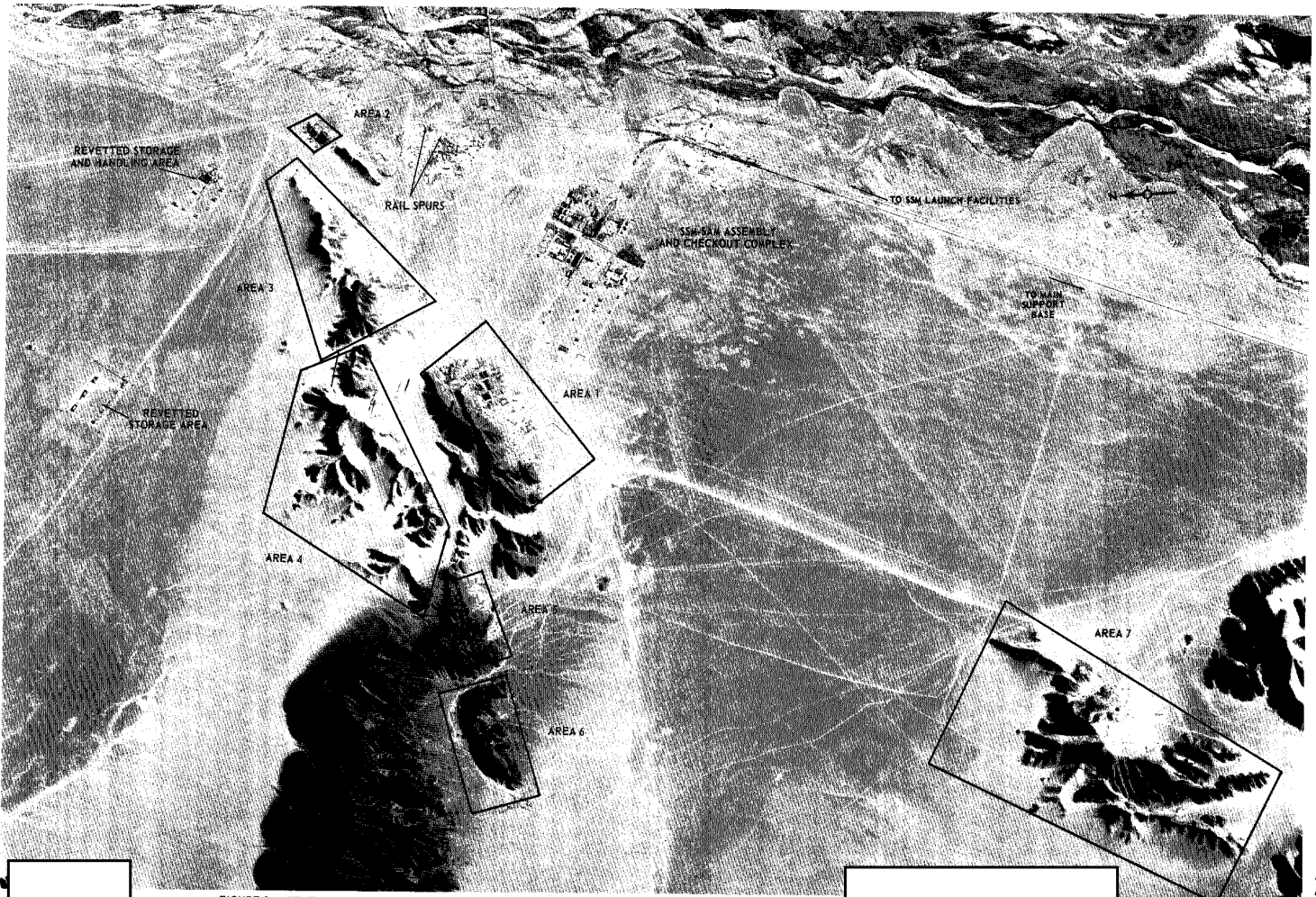


FIGURE 14. SEVEN AREAS OF UNIDENTIFIED ACTIVITY NEAR THE SSM-SAM ASSEMBLY AND CHECKOUT COMPLEX.

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Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010020-2



PROBABLE PROPELLANT HANDLING AND STORAGE AREA

The Probable Propellant Handling and Storage Area (Figures 17 and 18) is 4.5 nm northeast of the Main Support Base at 41-03N 100-13E. It is served by rail and concrete road. Since [redacted] four buildings have been added for a total of approximately 20 buildings, 1 building has been extended, and a platform has been built opposite the new extension. The number of garden plots appears to be approximately the same as it was in [redacted]

The maintenance section contains 3 single-story barracks/storage buildings (items 1-3, Figure 18), 2 storage buildings (items 4 and 5), and a possible heatplant (item 6). One of the barracks/storage buildings was built between [redacted] and 1 of the storage buildings was built between [redacted]

The secured water supply facility contains a pump-house (item 7), 2 earth-mounded water tanks (items 8), and a water tower (item 9). A water/waste treatment facility is north of the area.

The operations section is well lighted and secured and contains 11 buildings, 3 liquid unloading columns, 4 towers/unloading columns, and 2 mounds. The largest building in the section (item 10) was extended between [redacted] and a platform was built opposite the extension. A stack is on the eastern side of the building and 2 towers/unloading columns are on the western side. The towers/unloading columns are connected to the building by a conveyor or pipeline.

The next building (item 11) is earth banked on the eastern and southern sides and has a bay approximately 30 feet high at its northern end. A mound approximately

30 feet in diameter is south of the building and a mound approximately 20 feet in diameter is northeast of the building.

The rail-through building (item 12) is flat roofed and is approximately 20 feet high.

The building in the northwest corner of the section (item 13) is adjacent to, but not touching, a concrete hardstand. On the other side of the building are 2 liquid unloading columns. Rail cars are often located adjacent to these columns.

The next concrete hardstand is opposite 1 unloading column. On [redacted] coverage 4 unidentified objects are located in the intervening space. It cannot be determined if they are still present.

The next building (item 14) is not served by a concrete apron. The next building (item 15) was built between [redacted]

The next 2 buildings (items 16 and 17) share the same parking apron. Two towers/unloading columns are located opposite them.

Item 17 is connected to the next 2 buildings (items 18 and 19) by an overhead pipeline. The center building (item 18) has a stack or rod on its roof and is not served by a concrete hardstand. The bunkered building (item 19) also is not served by a concrete hardstand. It does have 4 entrances, each with a concrete apron, facing the rail line.

A flat-roofed building (item 20) approximately 20 or 25 feet high is located near the entrance to the section. It is similar to 2 buildings in the SSM-SAM Assembly and Check-out Complex. Item 21 is a guardhouse and item 22 is unidentified.

A building (item 23) is located outside the fence at the northern end of the section. It was built between [redacted] [redacted] A possible stack approximately 20 feet in diameter is adjacent to it. The building is next to a road built between [redacted]

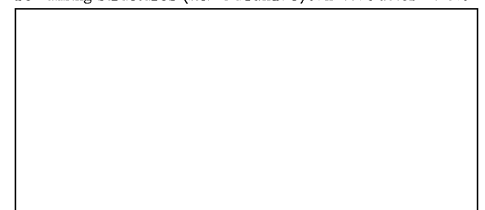
Suspect Air Liquefaction Plant

The previously reported area of unidentified activity approximately 1 nm west-northwest of the Probable Propellant Handling and Storage Area can now be identified as containing a suspect air liquefaction plant (Figures 17 and 19), a small barracks area, and a new area of unidentified activity.

The suspect plant building (item 15) has vents on the roof and tall windows along the side. It and an adjacent building (item 16) both have bilevel roofs with the b portion in each case being the higher part. The suspect cooling tower (item 9) was constructed between [redacted] [redacted] It replaced a tower which had been constructed between [redacted] The suspect cooling tower is connected by pipeline to a water tank (item 10). Eight other buildings (items 8, 11-14, 17-19) are near the suspect plant building. There is no evidence of cryogenic-type storage tanks and there is no rail line serving the plant area.

The small barracks area is east of the suspect plant building and contains 2 single-story barracks (items 5 and 6), a messhall (item 7), and 3 other structures (items 2-4). A substation with a building (item 1) is east of the barracks.

The new area of unidentified activity is located northeast of the plant building. Items 20-22 are probably equipment sheds and item 23 is a heatplant. The functions of the remaining structures (items 24 and 25) cannot be determined.



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SUSPECT AIR
LIQUEFACTION PLANT

PROBABLE PROPELLANT HANDLING
AND STORAGE AREA

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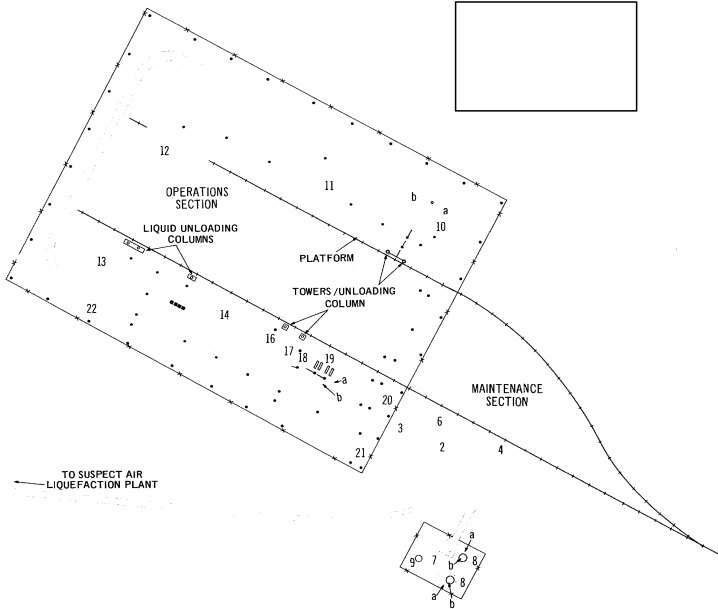
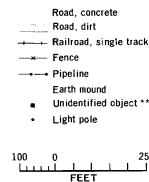
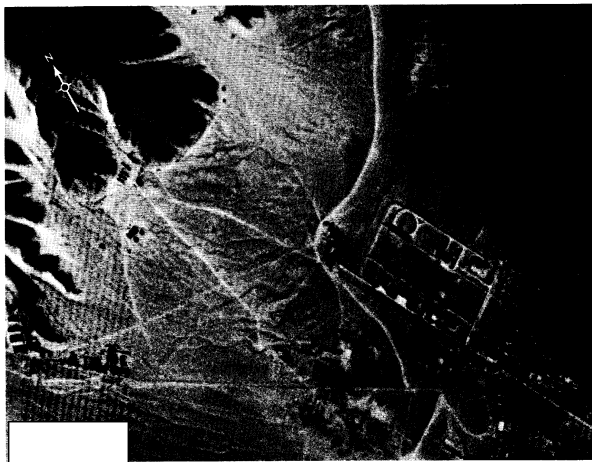
FIGURE 17. PROBABLE PROPELLANT HANDLING AND STORAGE AREA AND SUSPECT AIR LIQUEFACTION PLANT.

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ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	BARRACKS/STORAGE, SINGLE STORY	110 X 30
2	BARRACKS/STORAGE, SINGLE STORY	100 X 45
3	BARRACKS/STORAGE, SINGLE STORY	65 X 35
4	STORAGE BUILDING	30 X 25
5	STORAGE BUILDING	50 X 25
6	POSS HEAT PLANT	45 X 25
7	PUMPHOUSE	35 X 20
8	2 TANKS, EARTH MOUNDED	
a	BASE	50 DIAM
b	TOP	25 DIAM
9	WATER TOWER	80H X 20 DIAM
10	BUILDING	
a	EAST SECTION	110 X 40
b	MAIN SECTION	100 X 70
c	WEST SECTION	65 X 25
11	BUILDING	110 X 55*
12	BUILDING, RAIL-THROUGH	215 X 20
13	BUILDING	90 X 45
14	BUILDING	30 X 20
15	BUILDING	45 X 25
16	BUILDING	30 X 20
17	BUILDING	50 X 40
18	BUILDING	20 X 15
19	BUNKERED BUILDING	
a	BASE	95 X 80
b	TOP	60 X 40
20	BUILDING	20 X 15
21	GUARDHOUSE	5 X 5
22	BUILDING	10 X 10
23	BUILDING WITH POSS STACK	75 X 50

* Overall dimensions

FIGURE 18. PROBABLE PROPELLANT HANDLING AND STORAGE AREA.

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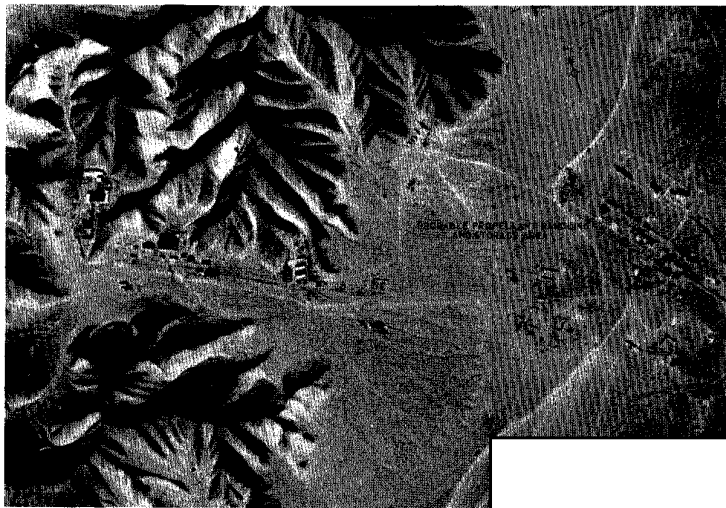
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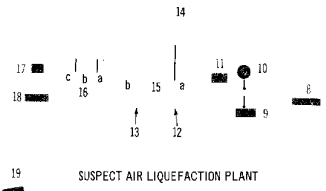
ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)	ITEM	DESCRIPTION	DIMENSIONS (APPROX FT)
1	BUILDING	85 X 25	b	CENTER SECTION	60 X 45
2	BUILDING	40 X 30	c	WEST WING	45 X 40
3	BUILDING	65 X 30	17	BUILDING	49 X 25
4	BUILDING	30 X 15	18	BUILDING	65 X 25
5	BARRACKS	120 X 50	19	BUILDING	70 X 25
6	BARRACKS	120 X 50	20	PROB EQUIPMENT SHED	85 X 30
7	MESSHALL	90 X 40	21	PROB EQUIPMENT SHED	100 X 30
8	BUILDING	85 X 25	22	PROB EQUIPMENT SHED	95 X 25
9	SUSPECT COOLING TOWER	65 X 23	23	HEAT PLANT	60 X 40
10	WATER TANK	55 DIAM	24	BUILDING	
11	BUILDING	50 X 40	a	MAIN SECTION	165 X 45
12	BUILDING	80 X 35	b	EAST WING	120 X 45
13	BUILDING	50 X 30	c	NORTH WING	90 X 50
14	BUILDING	75 X 35	d	WEST WING	105 X 45
15	SUSPECT PLANT BUILDING		25	BUILDING	
a	EAST WING	105 X 35	a	MAIN SECTION	180 X 30
b	MAIN SECTION	185 X 105	b	WEST WING	55 X 45
16	BUILDING		c	SOUTH WING	55 X 45
a	EAST WING	45 X 20			



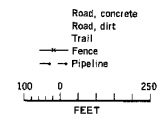
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UNIDENTIFIED ACTIVITY



BARRACKS AREA



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FIGURE 19. SUSPECT AIR LIQUEFACTION PLANT NEAR THE PROBABLE PROPELLANT HANDLING AND STORAGE AREA.

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REFERENCES

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[redacted]

DOCUMENTS

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- 1. NPIC. [redacted] *SSM Launch Facilities, Shuang-cheng-tzu Missile Test Center, China, Feb 67* (TOP SECRET [redacted])
- 2. NPIC. [redacted] *Main Support Base, Shuang-cheng-tzu Missile Test Center, China, Feb 67* (TOP SECRET [redacted])
- 3. NPIC. [redacted] *Airfield and Associated Activities, Shuang-cheng-tzu Missile Test Center, China, Jun 67* (TOP SECRET [redacted])
- 4. NPIC. R-1065/64, *Shuang-cheng-tzu Missile Test Center, China, Jan 64* (SECRET/ [redacted])

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REQUIREMENT

GMAIC. 4-67

NPIC PROJECT

11105/67 (partial answer)

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