Next 1 Page(s) In Document Exempt

ILLEGIB

TOP SECRET

Copy 7
12 Pages

NPIC/R-27/63
March 1963

PHOTOGRAPHIC INTERPRETATION REPORT

MINICARD COPY

8678

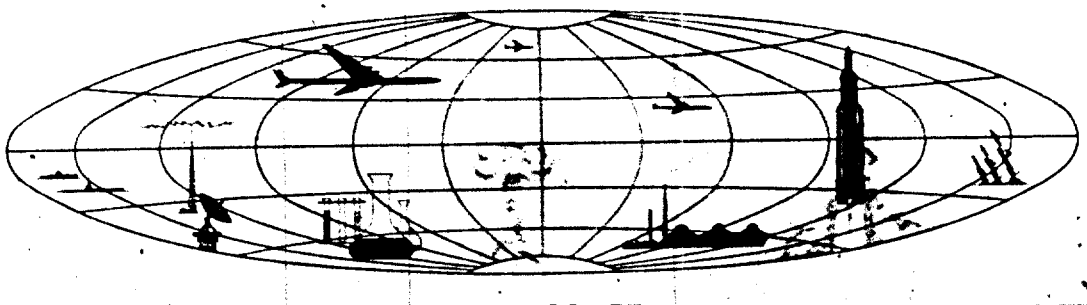
MISSILE AND PROPULSION TEST COMPLEX NEAR PEIPING, CHINA

VERIFIED

ARMY NAVY AIR FORCE CIA

Declassification review by NIMA/DOD

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



TOP SECRET

GROUP 1
Excluded from automatic downgrading and declassification

TOP SECRET [redacted] 25X1

Copy [redacted]
1 Page

March 1963

25X1

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

ERRATA FOR NPIC/R-27/63

In NPIC/R-27/63, Missile and Propulsion Test Complex Near Peiping, China, please make the following corrections:

1. On page 2, the distance between items 1 and 2 given in the Table of Distances should be 55 feet. ✓

2. On page 4, column 1, line 12, the item number in the parentheses should be 4.

TOP SECRET [redacted]

25X1 25X1

SUMMARY

A large missile and propulsion test complex is under construction in a ravine about 12.6 nautical miles (nm) west-southwest of Peiping, China. It is a major facility and represents an important factor in determining the progress and capabilities of Communist Chinese rocketry. No evidence of missile-related activity in the area was revealed on photography [redacted] but [redacted] photography [redacted] provided the first photographic evidence of a missile and propulsion test facility in China. Photographic interpretation reveals that the complex is being constructed to test missiles and high-thrust liquid-propellant rocket engines, [redacted] There is no evidence of a manufacturing or fabrication capability at the complex. Associated with the Static Test Area are a Fuel Storage Area and Possible LOX Plant, a Housing and/or Possible R&D Area, and a Storage Area.

INTRODUCTION

The Missile and Propulsion Test Complex (39-50-45N 116-08-20E), covered by photography of [redacted] photography of [redacted] is located 12.6 nm west-southwest of the center of Peiping and 2.8 nm west-northwest of Chang-hsin-tien (Figure 1). The photography of [redacted] revealed no evidence of activity at the site other than a possible airway beacon, one building, ground scarring at the north end, and possibly some structures in the subsequent Housing and/or Possible R & D Area. Between [redacted] a major portion of the complex had been constructed and construction has continued through [redacted] (Figure 2). Comparative photography of the complex in [redacted] and [redacted] is shown in Figures 3 and 4.

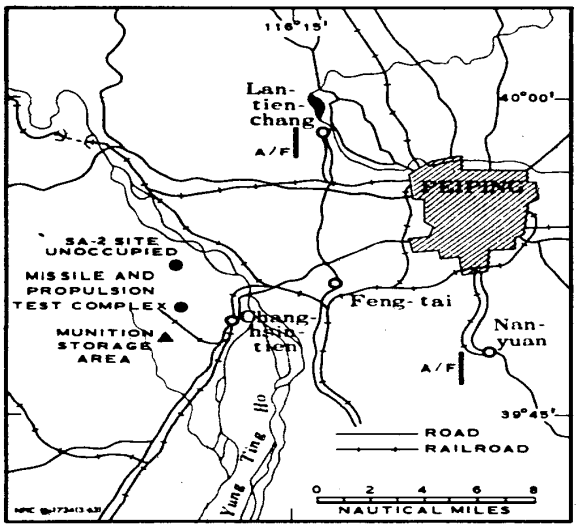


FIGURE 1. LOCATION OF MISSILE AND PROPULSION TEST COMPLEX.

The complex is composed of a Static Test Area with related support facilities, a Fuel Storage Area and Possible LOX Plant, a Housing and/or Possible R & D Area, and a Storage Area. It is rail and road served, with connections to the main rail line and road between Ching-yuan and Peiping. Air support could be provided by numerous airfields in the Peiping area, particularly Nan-yuan Airfield 11.5 nm east-southeast, and Lan-tien-chang Airfield 9.5 nm northwest of the complex. Electric power is probably supplied by a possible thermal power plant located about .5 nm southeast of the Static Test Area. Water is probably taken from local sources and could be pumped from several small streams in the vicinity, but no definite pipelines are discernible. Two large semiburied tanks at the north end of the Static Test Area are 65 feet in diameter, and probably for water storage. On-site housing is provided for an undetermined number of personnel in the Housing and/or Possible R & D Area southeast of the Static Test Area. No security measures are discernible, with the exception of some possible fencing in the Fuel Storage Area. The Chang-hsin-tien munitions storage area, which does not appear to have any direct association with the test complex, adjoins it on the south. An unoccupied SA-2 SAM site is located about one nm north-northeast of the complex.

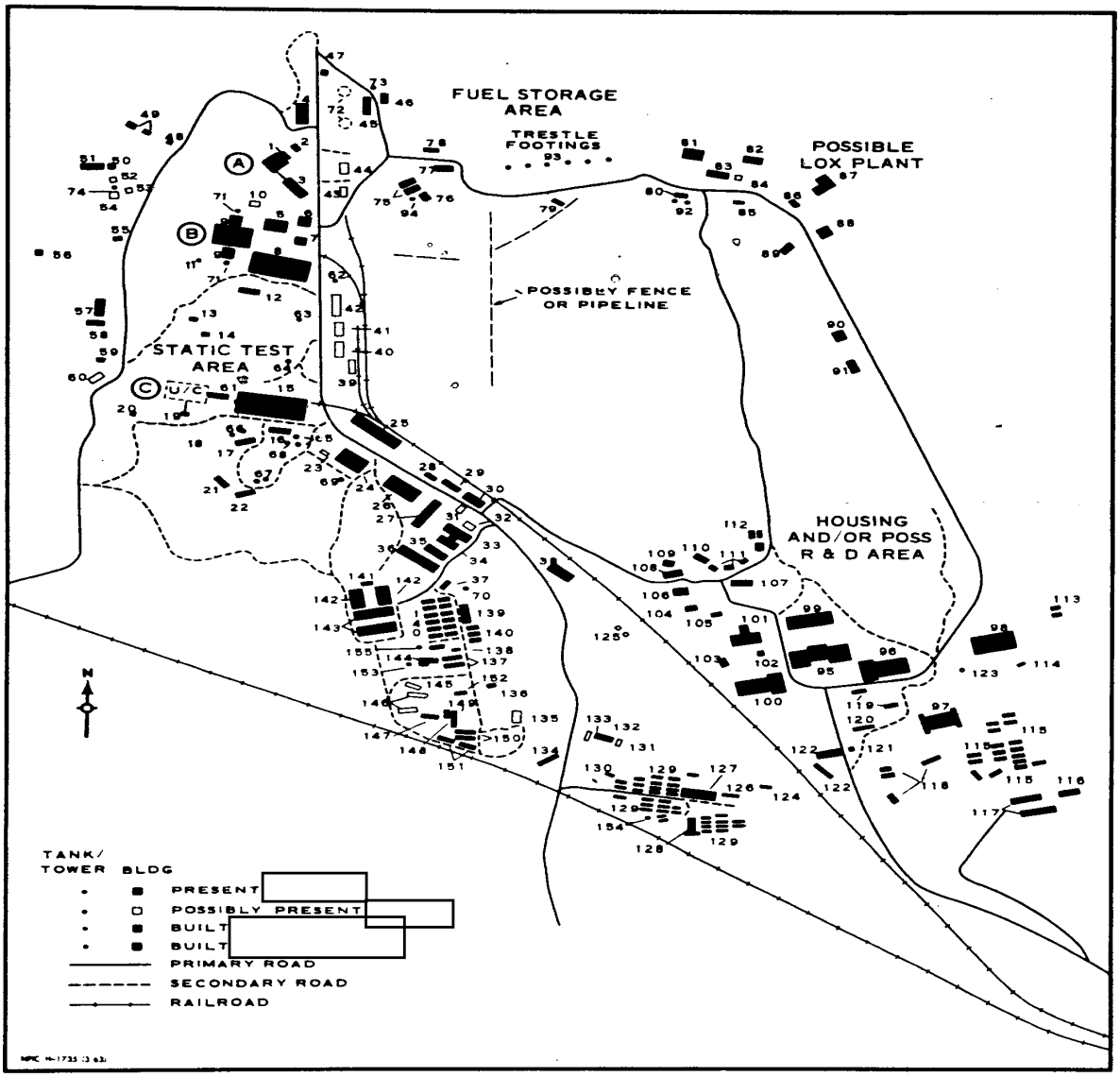
STATIC TEST AREA

The Static Test Area, located about .5 nm northwest of the Housing and/or Possible R & D Area, is situated along a ravine and encompasses an area of approximately 2,500 by 1,000 feet. The major features in the area are three large confirmed vertical liquid static test stands and associated buildings. Two of the stands are complete and one appears to be in the final stages of construction. The area is served by a rail spur and an all-weather road approximately 25 feet wide, both of which connect with the main routes to Peiping. Feeder roads serve all facilities within the area, and rail spurs serve two large assembly/checkout buildings associated with two of the stands. Another spur appears to be oriented in the direction of the third stand but its exact terminus cannot be determined from the photography. A number of possible storage tanks are scattered throughout the area and ground scarring in several sectors might indicate the presence of pipelines.

Static Test Stand A (Figure 2, Item A) measures 75 by 70 feet and is approximately

Table of Distances, Figure 2

Item	to	Item	Distance (ft)
A		1	15
A		5	250
A		10	235
A		49	675
A		51	785
A		53	700
A		B	460
B		5	100
B		7	210
B		8	70
B		10	230
B		13	485
B		49	820
B		51	795
B		53	625
B		57	740
B		Road	320
B		C	965
C		13	480
C		15	340
C		19	120
C		57	655
C		59	405
C		Road	660
1		2	855
5		8	165
8		15	825
15		24	275
15		25	200
24		25	140
24		26	210
26		27	70



25X1D
25X1D
25X1D

FIGURE 2. FACILITIES AT TEST COMPLEX.

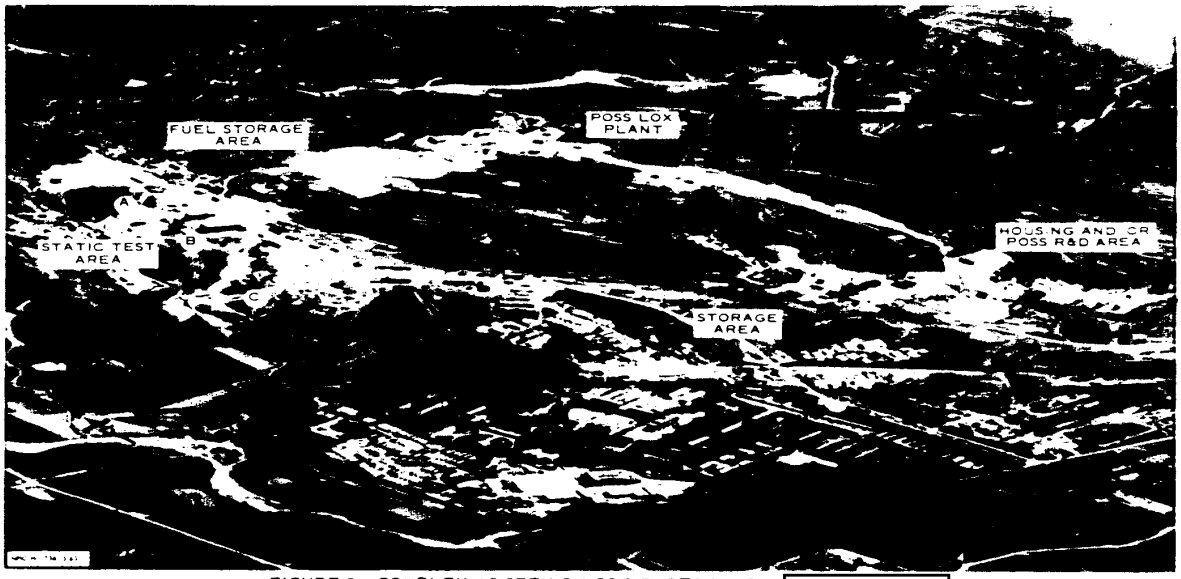


FIGURE 3. COMPLEX AS SEEN ON GRC PHOTOGRAPHY [redacted] 25X1D

65 feet high. This stand is road served and may also be rail served but a definite determination of rail service cannot be substantiated. A hardstand measuring 160 by 150 feet surrounds the test stand and there are two small support buildings directly northeast of it. The buildings are 15 and 55 feet, respectively, from the stand. A possible control bunker measuring 100 by 30 feet lies about 180 feet directly southeast of the stand. A large possible support building measuring 100 by 40 feet (Figure 2, Item 4) is located about 250 feet behind the stand, paralleling the main road. The stand appears to extend over the edge of the ravine, and is approximately 65 feet above the floor of the ravine. A paved blast deflector extends from the base of the stand to the bottom of the ravine. The blast-deflector pit measures approximately 70 feet wide at the rim and 40 feet wide at the base and is approximately 170 feet long. No fuel tanks can be identified in the immediate vicinity of the test stand. This stand is comparable in size and appearance to the smaller stands at the Dnepropetrovsk (DAZ) test facility.

Static Test Stand B (Figure 2, Item B), located about 460 feet southwest of Test Stand A, measures 100 by 65 feet and is 85 feet high. There are four support buildings about 80 feet behind the stand. The largest, a three-story structure, measures 240 by 90 feet and is 55 feet high (Figure 2, Item 8). It is rail served, with the spur possibly extending to the test stand. A possible control building measuring 85 by 45 feet is located about 200 feet south of the stand. Several small possible control bunkers lie about 230 feet north, and 200 feet southwest of the test stand. This stand, similar in size and configuration to the original test

stand at Kurumoch, has an overall height of 145 feet above the floor of the blast pit. A paved blast deflector extends from the base of the stand to the bottom of the pit. The blast-deflector pit measures approximately 195 feet wide at the rim and 70 feet wide at the base and is approximately 200 feet long. A possible fuel tank, 20 feet in diameter, is located about 100 feet east of the large support building. Two other possible fuel storage areas are possibly associated with two 20-foot diameter semiburied tanks which lie approximately 80 feet north and south, respectively, of the test stand.

Static Test Stand C (Figure 2, Item C), located about 965 feet south of Test Stand B, measures 115 by 70 feet. Similar in size and configuration to the original test stand at Kurumoch, this stand was under construction in [redacted] 25X1D
it had been completed to the test-stand deck. In [redacted] 25X1D
the superstructure was completed to a height of approximately 70 feet. A paved blast deflector measuring approximately 60 feet wide extends from the base of the stand to the bottom of the ravine 70 feet below. The blast-deflector pit measures approximately 150 feet wide at the rim and 75 feet wide at the base and is approximately 200 feet long. A possible gantry approximately 60 feet high is located about 35 feet behind the stand, suggesting that the stand could be possibly used for complete missile testing as well as static engine tests. A ramplike structure, similar to those at the Omsk and Perm static test facilities, extends south approximately 120 feet from the test stand to a possible control bunker. There are approximately eight possible fuel storage tanks measuring from 20 to 25 feet in diameter in the vicinity of the stand. The stand has three main support buildings; the largest, a three-story structure measuring 265 by 100 by 55 feet high, was

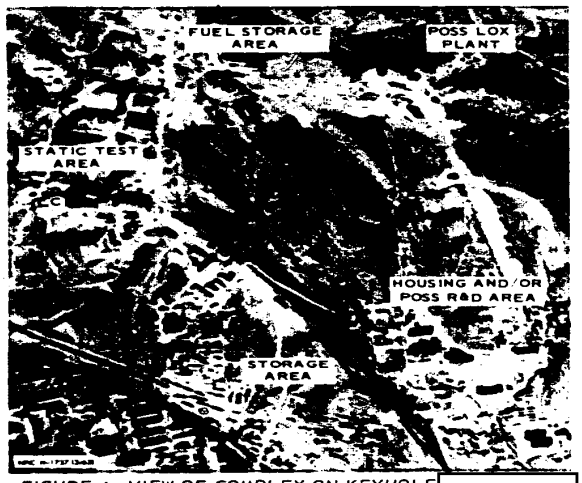


FIGURE 4. VIEW OF COMPLEX ON KEYHOLE [redacted] 25X1D

[redacted] 25X1D

built between [redacted] This 25X1D
building (Figure 2, Item 15) is east of the test stand and is rail served, with the spur entering the building and possibly extending to the test stand.

Included within the Static Test Area are approximately 25 to 30 other support buildings ranging from 30 by 30 feet to 155 by 65 feet in size. Across the ravine, and ideally situated in relation to the stands, are a number of possible control and observation bunkers and buildings, and a possible latticework tower. At the extreme northern end of the Static Test Area is a towerlike structure, 110 feet high and 35 feet in diameter, which may be a water tower associated with the two 65-foot-diameter semiburied tanks nearby. Two adjacent buildings could be pumphouses, although no pipelines are discernible leading from the area. Additional data on structures in the Static Test Area are given in Table 1.

NPIC /R-27 /63

Table 1. Data on Structures in Static Test Area

Item (Fig 2)	Description	Dimensions (ft)	Remarks
1	Bldg	55 x 25	
2	Bldg	55 x 35	
3	Poss control bunker	100 x 30	
4	Poss support bldg	100 x 40	
5	Support bldg	100 x 55 x 50	
6	Support bldg	[redacted]	
7	Support bldg	30 x 30	
8	Assembly checkout bldg	240 x 90 x 55	
9	Poss fuel storage	50 x 50	
10	Poss control bunker	55 x 40	
11	Poss bunker	15 x 15	
12	Poss control bldg	85 x 45	
13	Poss control bunker	25 x 25	
14	Poss control bunker	30 x 30	
15	Assembly checkout bldg	265 x 100 x 55	
16	Bldg	75 x 30	
17	Bldg	60 x 30	
18	Unidentified	20 x 20	
19	Poss control bunker	[redacted]	
20	Poss bunker	20 x 20	
21	Bldg	65 x 30	
22	Bldg	65 x 30	
23	Bldg	30 x 25	
24	Bldg	155 x 65 x 30	
25	Bldg	200 x 30	
26	Bldg	[redacted]	
27	Bldg	165 x 40 x 30	
28	Bldg	45 x 25	
29	Bldg	80 x 35	
30	Bldg	80 x 35	
31	Bldg	40 x 30	
32	Bldg	40 x 30	
33	Bldg	105 x 40	
34	Bldg	90 x 35	
35	Bldg	105 x 35	
36	Bldg	175 x 50	
37	Bldg	50 x 20	
38	Bldg	105 x 35	
39	Bldg	80 x 30	
40	Bldg	80 x 45	
41	Bldg	80 x 45	
42	Bldg	100 x 30	
43	Bldg	45 x 45	
44	Bldg	50 x 45	
45	Poss pumphouse	90 x 30	
46	Poss pumphouse	40 x 30	
47	Bldg	30 x 30	
48	Unidentified	20 x 20	
49	2 bldgs	30 x 25	
50	Bldg	40 x 30	
51	Bldg	90 x 35	
52	Bldg	30 x 30	
53	Bldg	40 x 40	
54	Bldg	30 x 30	
55	Poss bunker	40 x 25	
56	Poss bunker	25 x 25	
57	Poss bunker	100 x 50	
58	Bldg	60 x 40	
59	Unidentified	40 x 35	
60	Bldg	85 x 30	
61	Approach ramp	130 x 35	

25X1D

25X1D

25X1D

25X1D

Table 1. (Continued)

Item (Fig 2)	Description	Dimensions (ft)	Remarks
62	Poss tank	20 (diam)	
63	Poss tank	20 (diam)	
64	Poss tank	20 (diam)	
65	2 poss tanks	25 (diam)	
66	2 poss tanks	20 (diam)	
67	2 poss tanks	25 (diam)	
68	Beacon or tower	---	
69	Poss tank	20 (diam)	
70	Poss tank	20 (diam)	
71	Semiburied tanks	20 (diam)	
72	Semiburied tanks	65 (diam)	
73	Tower	110 (high) x 35 (diam)	
74	Poss latticework tower	---	

FUEL STORAGE AREA AND POSSIBLE LOX PLANT

The Fuel Storage Area, consisting of five buildings and a possible 30-foot spheroidal fuel storage tank, is located about 400 feet east of Test Stand A. The area has direct road connection to the Static Test Area, and ground scarring gives some evidence of possible pipelines or security fencing. A number of buildings and tanks east and southeast of the Fuel Storage Area constitute a Possible LOX Plant. The buildings measure from 30 by 20 feet to 90 by 45 feet and the area has direct road connections with the Fuel Storage Area and the Housing and/or Possible R & D Area. Between the Fuel Storage Area and the Possible LOX Plant is a row of six objects, measuring approximately 15 feet in diameter and spaced 100 feet apart, which may be trestle footings for a possible overhead pipeline system (Figure 2, Item 93). The footings are aligned between the nearest buildings in the Fuel Storage Area and the Possible LOX Plant. Additional data on structures in the Fuel Storage Area and Possible LOX Plant are given in Table 2.

Table 2. Data on Structures in Fuel Storage Area and Possible LOX Plant

Item (Fig 2)	Description	Dimensions (ft)	Remarks
75	2 bldgs	70 x 25	
76	Bldg	60 x 60	
77	Bldg	75 x 30	
78	Bldg	60 x 20	
79	Unidentified	75 x 15	
80	Bldg	50 x 20	
81	Bldg	80 x 75	
82	Bldg	85 x 45	
83	Bldg	70 x 35	
84	Bldg	35 x 20	
85	Bldg	30 x 20	
86	Bldg	30 x 25	
87	Bldg, irregular shape	90 x 65 x 45	
88	Bldg	55 x 55	
89	Bldg	40 x 30	
90	Bldg	50 x 50	
91	Bldg	50 x 30	
92	2 poss tanks	20 (diam)	
93	6 poss trestle footings	15 (diam)	
94	Poss spheroidal tank	30 (diam)	

HOUSING AND/OR POSSIBLE R & D AREA

The Center of the Housing and/or Possible R & D Area is located approximately 2,500 feet southeast of the center of the Static Test Area. Encompassing an area of approximately 1,500 by 1,000 feet, the Housing and/or Possible R & D Area is served by a good road connecting with the main road to Peiping and by direct access roads to the Static Test Area and the Fuel Storage Area and Possible LOX Plant. The area contains one large two-story engineering/design-type building (Figure 2, Item 98), one large five-story apartment-type building, four large three-story apartment-type buildings, 17 quonset huts, and approximately 25 other buildings ranging from 30 by 20 feet to 155 by 35 feet in size. Additional data on structures in the Housing and/or Possible R & D Area are given in Table 3.

Table 3. Data on Structures in Housing and/or Possible R & D Area

Item (Fig 2)	Description	Dimensions (ft)	Remarks
95	5-story bldg	260 x 70	
96	3-story bldg	220 x 70	
97	3-story bldg	220 x 70	
98	2-story bldg	200 x 110	
99	3-story bldg	220 x 55	
100	3-story bldg	220 x 70	
101	Bldg, irregular shape	45 x 35 x 115 x 45	
102	Bldg	35 x 20	
103	Bldg	35 x 20	
104	Bldg	30 x 20	
105	Bldg	30 x 20	
106	Bldg	50 x 30	
107	Bldg	80 x 35	
108	Bldg	60 x 30	
109	Bldg	40 x 40	
110	Bldg	60 x 30	
111	3 bldgs	30 x 20	
112	Bldg	50 x 25	
113	Bldg	30 x 20	
114	Bldg	30 x 20	
115	17 quonset huts	50 x 15	
116	Bldg	85 x 25	
117	2 bldgs	155 x 35	
118	4 bldgs	60 x 15	
119	2 bldgs	45 x 20	
120	Bldg	65 x 20	
121	Bldg	35 x 20	
122	2 bldgs	75 x 20	
123	Poss tank	40 (diam)	

25X1D

STORAGE AREA

The center of the Storage Area, adjoining the Static Test Area on the south, is located approximately 2,000 feet south-southeast of the center of the Static Test Area. Encompassing an area of approximately 1,700 by 700 feet, the Storage Area is served by several roads from the Static Test Area and by the rail line along its southern boundary. The area

contains one group of sixteen 50- by 20- foot quonset huts, a group of thirty-three 45- by 15-foot quonset huts, several possible fuel storage tanks, and approximately 30 other storage-type buildings ranging from 30 by 20 feet to 155 by 35 feet in size. There are also two large three-story apartment-type buildings in the area, which may be used for housing and/or engineering. Additional data on structures in the Storage Area are given in Table 4.

Table 4. Data on Structures in Storage Area

Item (Fig 2)	Description	Dimensions (ft)	Remarks
124	Bldg	30 x 25	
125	2 bldgs	30 x 20	
126	Bldg	60 x 15	
127	Bldg	115 x 45	
128	Bldg	100 x 25	
129	33 quonset huts	45 x 15	
130	Bldg	30 x 20	
131	Bldg	30 x 25	
132	Bldg	70 x 25	
133	Bldg	40 x 25	
134	Bldg	70 x 25	
135	Bldg	70 x 40	
136	Bldg	30 x 20	
137	2 bldgs	[redacted]	
138	Bldg	30 x 20	
139	Bldg	90 x 35	
140	16 quonset huts	50 x 20	
141	Bldg	40 x 20	
142	2 bldgs	75 x 40	
143	2 3-story bldgs	155 x 35	
144	Bldg	[redacted]	
145	Bldg	70 x 20	
146	2 bldgs	85 x 30	
147	Bldg	50 x 20	
148	Bldg	45 x 20	
149	Bldg	60 x 20	
150	Bldg	70 x 25	
151	Bldg	60 x 15	
152	Bldg	[redacted]	
153	Poss tank	25 (diam)	
154	Poss tank	25 (diam)	
155	Poss tank	30 (diam)	

25X1

25X1D

25X1D

25X1D

NPIC/R-27/63

REFERENCES

PHOTOGRAPHY

25X1D

25X1C

[redacted]

MAPS OR CHARTS

SAC. US Air Target Chart, Series 200, Sheet 0381-1AL, 2d ed, Jul 60, scale 1:200,000 (SECRET)

ACIC. US Target Complex Chart, Series 100, Sheet 0381-9994-100A, 2d ed, Feb 56 (CONFIDENTIAL)

REQUIREMENT

CIA. OSI R-45 63

NPIC PROJECT

J-42 63