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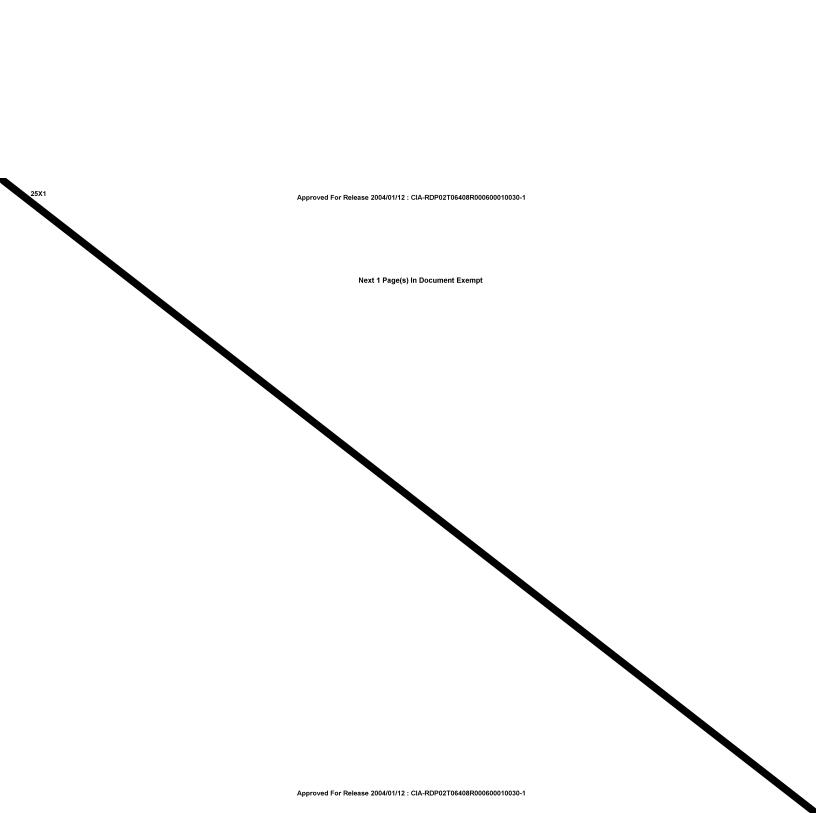
CHRONOLOGICAL DEVELOPMENT OF **SELECTED SOLID PROPELLANT FACILITIES** AT THE MUNITIONS AND CHEMICAL COMBINE K. KIROV NO 98 PERM, USSR

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PHOTOGRAPHIC INTERPRETATION REPORT

CHRONOLOGICAL DEVELOPMENT OF SELECTED SOLID PROPELLANT FACILITIES AT THE MUNITIONS AND CHEMICAL COMBINE K. KIROV NO 98, PERM, USSR

FEBRUARY 1967

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	ERRATA In this publication, the following corrections should be inserted: Page 1, fifth paragraph, third line, Figure 3 should read Figure 4 Page 5, Figure 3, item 20 should be screened gray for Page 6, Table 2, item 13, Date Considered Complete should read	25X1
25X1	Page 7, Figure 4, item 17 should be screened blue-gray for Page 8, Middle column, third line, Figure 5 should read Figure 7	25X1
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INTRODUCTION

This report, one of a series of studies of the chronological development of Soviet solid propellant production areas and their associated rocket motor test facilities, is concerned with selected portions of the Munitions and Chemical Combine K, Kirov No 98 at 57-58N 055-54E on the north bank of the Kama, approximately 10.5 nautical miles (nm) east of Perm, USSR (Figure 1).

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This combine is quite extensive both in the physical area and in the variety of products that can be manufactured there. The principal areas of the combine that have been identified include a conventional propellant production area with single- and double-base propellant production capability, a large explosive storage area, a solid propellant rocket motor test facility, and 2 recently developed areas designated as the Advanced Solid Propellant Production Facility and the Modified Solid Propellant Plant (Figure 2).

This report will deal with the last three areas: the 2 recently developed propellant production areas and the ancillary rocket motor test area. It will therefore be sufficient to say that the majority of the remaining areas of the combine were present on the first photographic coverage and, with one exception, there have been no major or significant construction changes in these areas since The one exception has been the identification of a casting facility near the double-base propellant area. This facility, along with a series of 5 contiguous offset buildings also identified in this area, appeared to be under construction in midand was considered to be complete by facility and building arrangement are similar to ones observed at Biysk, Krasnoyarsk, Kamensk-Shakhtinskiy, and Sterlitamak solid propellant plants. 1/

A small rocket motor test cell and blast deflector were identified on photography of in the south corner of the old shell test range which is located southeast of the Rocket Motor Test Facility. The cell is 45 by 25 feet with a 40-foot flared tube at the firing end. The blast deflector is located approximately 150 feet from the test cell, Although the existence of this facility can be traced back to the quality of photography did not permit its

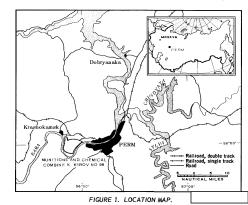
identification as a test facility until 4 years later.

Data concerning structures at the Advanced Solid Propellant Production Facility (Table 1, Figure 3), Modified Solid Propellant Plant (Table 2, Figure 3), and the Rocket Motor Test Facility (Table 3, Figures 5-7) were derived from 22 photographic missions which covered the Munitions and Chemical Combine K. Kirov No 98 between This data is summarized on layout drawings of these facilities in which structures are color coded to show the chronology of construction and on tables associated with the drawings. In many instances the determination of starting and completion dates of construction could not be accurately assessed due to intermittent photographic data. In addition, the completion or operational status of various structures could not be determined with a great degree of certainty. The photography was of particularly poor quality and small scale during the 1961-63 period, accounting for items listed as observed and completed on the same date.

HIGHLIGHTS

1961

The combine was first observed on This photography was of very poor quality and could be used only for the recognition of gross



features, such as the perimeter outlines of the Modified Solid Propellant Plant and the Rocket Motor Test Facility. The blast deflector for the horizontal test cell (item 14, Figure 7) in the latter facility may have been present at this time.

Construction had not begun on the Advanced Solid Propellant Facility at this time, but the major buildings in the Modified Solid Propellant Plant were discernible on photography of buildings appeared complete and were assumed to be operational (Figure 4). The Rocket Motor Test Facility, which is separately secured and contains a horizontal test cell (item 14, Figure 7) and a large blast deflector (item 15, Figure 7), was identified, suggesting that solid propellants were being produced and tested at the chemical and munitions combine at this time. Other significant buildings observed at the facility included items 5-7, 11, and 12, Figure 7.

1963

The new Advanced Solid Propellant Facility was growing at a rapid pace when observed in Facilities under construction included a curing building (item 8, Figure 3), an administration section (items 39-41, Figure 3), an oxidizer section (items 32 and 36, Figure 3), 2 casting buildings (items 20 and 27, Figure 3), and the associated control houses. Improved photography allowed identification of 2 additional revetted buildings (items 31 and 32, Figure 4) in the Modified Solid Propellant Plant, where new construction included a new administration/engineering building (item 13, Figure 4) and the expansion of a nearby fabrication/assembly building (item 4, Figure 4) which appeared to have been finished in

During this year 17 major buildings were constructed at the advanced propellant facility. They included such structures as the case preparation building (item 28, Figure 3), fuel preparation sections (items 17 and 18, Figure 3), a possible pre-mix building (item 25, Figure 3), curing buildings (items 5 and 6, Figure 3) and the propellant blend/mix buildings (items 19 and 26, Figure 3).

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25X1	Construction of a casting building (item 13, Figure 3) was first observed in Revetments for the various production buildings were begun in this period and an extensive rail network was also discernible for the first
1	time. Another utility, an electrical substation, was built outside the security wall immediately west of the blend/mix buildings.
25X1	Early photography revealed the completion of a heavily revetted building (item 42, Figure 4) outside the existing perimeter fence on the west side of the Modified Solid Propellant Plant. This structure bears resemblance to a casting building identified at the Kamensk-Shakhtinskiy facility. A rail spur was extended into this area. By
25X1	a second revetted structure (item 41, Figure 4) was
25X1	under construction. When complete in this building was noted to be similar to a curing building (item 6, Figure 3) in the Advanced Solid Propellant Facility. A possible assembly and checkout building (item 4, Figure 7) was the only major structure constructed at the
25X1	Rocket Motor Test Facility during 1964. The building
25X1	feet high, appeared to be externally complete in
	At this time it was separately secured and this wall was
25X1	not removed until the middle of 1966 of this year, construction of a rail bed was started north of the
	Rocket Motor Test Facility; when eventually complete, it would link the test facility to the older conventional
	propellant area.
	1965
	Construction continued steadily during this year at the Advanced Solid Propellant Facility. However, the construction rate of the casting building (item 13, Figure 3) had slowed down. Personnel bunkers and small support buildings were observed on the photography for the first time. Two large assembly buildings (items 9 and 10,
25X1 25X1	Figure 3), in the early stages of construction in were nearly complete when observed in

revealed the construction of an

1966

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additional propellant blend/mix building in the Advanced Solid Propellant Facility. Pipelines were discernible for the first time and a wall had been built to isolate the more hazardous sections from the remainder of the facility. Ground scarring indicated that at least 3 new structures are to be erected in this area in addition to those already in progress.

Construction activity was observed at the Modified Solid Propellant Plant for the first time in over a year. The center of activity is ostensibly in the west-central portion of the plant immediately west of the propellant processing buildings (items 34 and 35, Figure 4). A rail-served building (item 10, Figure 7) and a small support building (item 2, Figure 7) represent the only significant physical changes at the test facility during 1966.

ADVANCED SOLID PROPELLANT FACILITY

The Advanced Solid Propellant Facility (Figure 3) is located at the northwest side of the munitions and chemical combine, immediately north of the Modified Solid Propellant Plant. A comparison of the advanced solid propellant production facilities at Perm, Kemerovo, and Kamensk-Shakhtinskiv has resulted in the functional interpretation of major buildings and structures. Because detailed descriptions of several similar types of major production buildings have already been done, 2/ they will not be repeated in this report. In addition to the fact that these plants comprise similar building configurations, they also share the obvious advantages of service and support facilities by having been constructed adjacent to an older propellant/explosives combine. However, differences do occur in spatial arrangement, due, perhaps, to topography or the land area available for a construction program; and in the number of buildings utilized for a specific function. The most notable example of this is the current construction of additional mixing and casting units at Perm; unlike the other advanced solid propellant facilities, which have 2 production lines, the Perm facility will have 3.

MODIFIED SOLID PROPELLANT PLANT

The Modified Solid Propellant Plant (Figure 4) consists of 32 processing buildings, the majority of which are revetted, and a support section on the north side of the facility. The support section, which is analogous to the one at the Biysk R&D facility, comprises a large fabrication/assembly building (item 4, Figure 4), 2 large $L\hbox{--shaped administration/engineering buildings (items }13$ and 25, Figure 4), a T-shaped building under construction (item 26, Figure 4), and 2 other large rectangular workshop/storage buildings (items 1 and 2, Figure 4). A specific description of the functions of the buildings in the remainder of the facility is difficult because of the lack, until recently, of any photography with sufficient detail, and also the overall diversity and the complexity of the plant area itself. Thus, Table 2 gives only a general description of the buildings, derived from a few of the most recent photographic coverages.

ROCKET MOTOR TEST FACILITY

The Rocket Motor Test Facility (Figure 7) is located
southwest of the production areas. The Perm facility
represents the only solid motor test facility in which phys-
ical activity was increasingly evident on recent photography.
This activity includes the movement of numerous rocket
motor casings into the main test area: at least 13 casings,
ranging in size from to 25 by 5 feet, were
identified adjacent to the large horizontal test cell (item 14,
Figure 7) on photography of Other possible
casings were observed at the small rocket motor test
building (item 6, Figure 7). Measurements of random
samplings of these possible casings revealed objects 20
feet in length with a diameter of approximately
to 5 feet. Also observed in the Rocket Motor Test Facility
at this time were 4 large rail cars, measuring
feet, and 6 smaller cars. Previous observations of rail
stock were in (at least 9 rail cars) and in
at least 8 cars).

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FIGURE 2. PRINCIPAL AREAS OF THE MUNITIONS AND CHEMICAL COMBINE K. KIROV NO 98, PERM, USSR.

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25X1 25X1 25X1 25X1 25X1	Facili zontal side of the to a shart cell.	ity, the most even test cell (item of the facility. The same of the facility of the deflector, is loce the deflector,	structures in the large 14, Figure 7; Fhe test building its imately 30 feet hied, increasing from	ge rail-serve figure 5) on a self measure lgh. The exh ma 25-foot d arge concret the rear of tht angle, is	tor Test smal active the west small active the west small small active the west small smal	ion of a small suppor 1 buildings represents ity observed. There was no evidence ver, darkened areas on activity were observe Weathering of the ctor, indicative of tes ime, was noted in phy of st firing at the horizonta , Olimerasions, Neel Corer and Chemelogy of	the of the second on process to active has gill test of	est firing throughout indicating photography of ete facing on vity over a lon Large-scliven first firm cell (Figure 7).	gh 1964; propossible enter the blast proposed enter the proposed enter the blast proposed enter	e edge of the decision of the	the Kama F ingle road ment with the open ed bunker d is connect way/cable ed in that and utilize the rocket of	tiver. Separ i, the test p n a large ea side, creatin is located cted to the te eway. The te the test an es a possible during hot fin	ately secured and se- osition consists of a arth mound placed pag a blast deflector. on the east side of est position by an ear est position is relative a is unsheltered free test bench/thrust prings. The length of from the closed end	er- An the th om pad 25X th
!	Item No	Function/Description	Dimensions* (ft) Length Width Height		Date Date Considered to Observed Complete	Comments	ftem No	Function/Description	Dimensions* (ft) Length Width Heig	Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments	_ '
25X1	1 2 3 4 5	U/I bldg U/I bldg U/I bldg U/I bldg Poss caring bldg u/c Curing bldg				Has a small low-bay section Has a small low-bay section Bldg with 20-ft low bay appeared	24 25	Poss inspection bidg Poss pre-mix bldg					Revetting completed \$5; obliq- uity of photography has pre- cluded accurate width meas- urements	25X1 25X1
25×1 25×1	6	Curing bldg U/I bldg u/c				complote in robustics of the construction of t	26 27 28	Propollant blend/mix bldg Casting bldg Case preparation bldg					Bldg apparently complete in 64, not revetted until Bldg apparently complete in 64, not revetted until conduit/pipeline to control bldg observed in Bldg not quite complete	25X1
25 ₹1	8	Curing bldg				Bldg appeared complete i revetted	!						not observed again unti- lacks high-bay section identify- ing case preparation bldgs at	1 23/1
25X1 25X1 25X1	11	Assembly bldg Assembly bldg U/I bldg				Center section not complete in small steam control bldg located SW of bldg glad High section is 80 ft higher than undetermined low section; revolting evident resembles bldg at Kamenai's Shakthrisskiy identified as quality control & test bldg.	28 80 81 32 83 84	Warehouse Workshop U/I bldg u/o Poss oxidizer stor- age bldg Oxidizer storage bldg Oxidizer preparation					other advanced solid propellant facilities Nearing completion	25X1
	12	Propellant blend/mix	1			test plug	35	bldg Poss pre-mix bldg	l				1	

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similar test cell configurations have been observed at

Sterlitamak, Krasnoyarsk, Biysk, and Kamensk-Shakhtinskiy, there are slight dimensional and physical differences

which distinguish one test cell from another. The ex-

ISOLATED TEST POSITION

The isolated test position (item 16, Figure 7) is located

1,800 feet southwest of the main rocket motor facility at

25X1

Five of the more important structures at the Rocket

ments are accurate to within ± 5 ft; vertical measurements are accurate to within ± 15 ft.

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Motor Test Facility are described in detail below.

HORIZONTAL TEST CELL

25X1 --\$X1 25X1 TOP SECRET Approved For Release 2004/01/12 : CIA-RDP02T06408R000600010030-1 **25**×1 25X1 FIGURE 3. ADVANCED SOLID PROPELLANT PRODUCTION FACILITY, 25X1 Approved For Release 2004/01/12:5CIA-RDP02T06408R000600010030-1

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the revetment to the base of the deflector. Blast marks,
which covered the entire length of the revetment, have been
noted on photography of providing first
evidence of testing activity at the isolated test position.
An isolated test position has also been identified in
the rocket motor test facility at Biysk. Located southwest
of the main test area, this facility is quite similar to the
one at Permy it also consists of a large II shaped revet-

ment and a small test structure in the revetment. However, unlike Perm, the Bivsk site lacks a blast deflector; instead, the blast from test firings is directed across a road into

the base of a ridge line.

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SOLID ROCKET MOTOR TEST BUILDINGS

A rail-served small rocket motor test building (item 6, Figure 7; Figure 6) was identified on large-scale photography of The identification was made from the initial observation of 4 openings at the north

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end of the building, 2 measure and the other 2 measure These openings are comparable to the design of aircraft engine test cells in that the resultant air blast and exhaust gases from the activated test vehicle are deflected upward and discharged through the openings in the roof at the other end of the test cell. Small rocket motors tested in this building could be fired in a horizontal position similar to aircraft engine test procedure or might be tested in a vertical mode with the rocket firing directly up through the opening.

By using the same process, identification was made of a second possible small solid rocket motor test building (item 7, Figure 7) on photography of building was previously thought to be an assembly and checkout building, similar to H-shaped buildings at other solid propellant test facilities, 1/ The building, rail served, contains several different levels. The overall dimensions for this building are 175 by 145 feet.

These motor test buildings are analogous to ones

observed at Kemerovo and Kamensk-Shakhtinskiy. The building at Kamensk-Shakhtinskiy was first observed in This building, located northeast of the large horizontal test cell, measures approximately 110 by 60 feet and is rail served. A pair of openings on its north suggests that there are 2 cells present in the building. In a similar building was observed under construction at the Kemerovo test facility. This building measures 115 by 90 feet overall and contains 3 test cells, each served by a separate rail spur. To date the building at Kemerovo is still considered incomplete; a small section on the south side of the building has not been finished.

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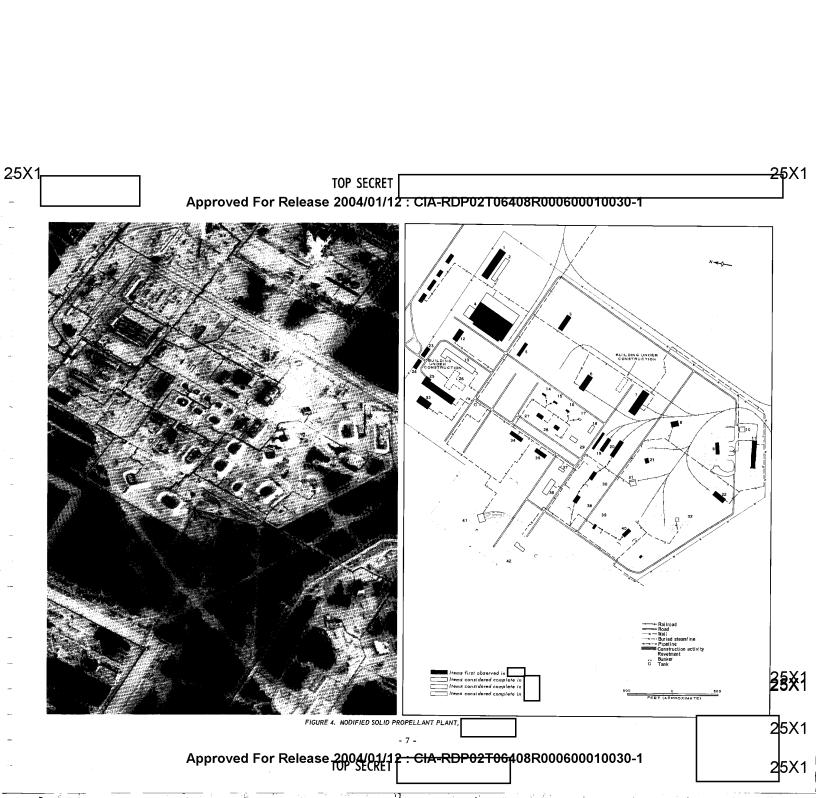
POSSIBLE INSPECTION BUILDINGS

Three buildings, one in the Rocket Motor Test Facility and 2 in the Advanced Solid Propellant Facility, are apparently involved with the inspection and testing of various products of the solid propellant facility; these buildings

Table 2. Function/Description, Dimensions, Roof Cover, and Chronology of Structures at the Modified Solid Propellant Plant, Perm, US	SSR

Item No	Function/Description	Dimensions* (ft) Length Width He	Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments	Item No	Function/Description	Length	Oimensions* (ft) Width Height	Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments
1 2 3 4 5 6 7	Workshop/storage bldg Workshop/storage bldg U/I bldg Fabrication/assem- hly bldg 1E/I bldg U/I bldg U/I bldg					Bidg was committed on the coast sides, a high-half assertion was a section was a section with the control of th	23 24 25 26 27 28 29	Support bldg Support bldg Support bldg Admin/engineering bldg T-shaped bldg w/e Propellant processing bldg						Construction has not changed sig- nificantly in 3 years on this small T-shaped bldg The area was indistinct in 62
8 9 10 11	Propellant process- ing bldg Propellant process- ing bldg U/I bldg Propellant process- ing bldg Support bldg						31 32 33 34 35 36	Propellant process- ing bldg Propellant process- ing bldg Support bldg U/I bldg U/I bldg Propellant process- ing bldg						Poss served by multiple rail spurs Poss present in 62
13 14 15 16	Admin/engineering bldg Propellant process- ing bldg Propellant process- ing bldg Propellant process-						37 38 39 40 41	U/T bldg Prob processing bldg Prob processing bldg Poss casting bldg Curing bldg						Poor-quality photography in this are in 62
17 18	ing bldg Propollant process- ing bldg Propollant process-					No measurement available at this	42	Casting bldg						Bldg had rail service as early as similar to casting bldg at Kam Shakhtinskiy
19	ing bldg Propellant process- ing bldg					time		Utilities Rail lines						Additional rail spurs extended in a of construction (items 41 & 42) in
20 21	Propellant process- ing bldg Propellant process-							Steamlines						Presence of buried steamlines under termined until when snow
22	ing bldg Propellant process- ing bldg													covering permitted observation of steamline pattern

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Item No	Function/Description	Length	imens (ft) Wid	Height	oof Cover (sq ft)	Date t Observed	Date Considered Complete	Comments	Item No	Function/Description	Length	Dimensi (ft) Width	 Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments
1 2 3 1 1	Support bldg Support bldg Admin bldg Poss assembly & checkout bldg							Clearing for bidg was cut in steelwork was visible in a storage tank was buried near NE corner of bidg in bidg appeared com- plete it was separately socured; wall has since been	11 12 13 14 15 16	Poss inspection bldg U/I bldg Support bldg Horizontal test cell Blast deflector Isolated test position			J			High section 40 ft high During 65 bidg extended on south end Dimensions appear on Figure 5 Proh present as early as Outline of aron visible in
	U/I bldg Small rocket motor test bldg Poss small rocket motor test bldg Support bldg Support bldg U/I bldg							razed Dimensions appear in Figure 6 Newly identified, by means of openings at rear of bldg.		Utilities Railroads Steamlines						ment to blast deflector Were present inwhen first discernible on photography Presence of buried steamlines un determined untilwhen snow covering permitted obser- vation of steamline pattern

*Horizontal measurements are accurate to within ± 5 ft; vertical measurements are accurate to within ± 15 ft

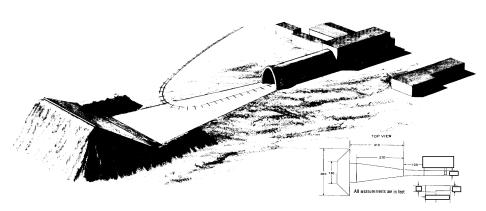


FIGURE 5. ARTIST'S CONCEPTION OF HORIZONTAL TEST CELL IN THE ROCKET MOTOR TEST FACILITY (item 14, Figure 7).

are similar to ones observed at Kamensk-Shakhtinskiy and Kemerovo. The function of these buildings appears to be the visual and radiographic inspection of components and assembled motors for flaws or deficiencies, as well as the post-test checks of motors. The rail-served buildings, rectangular in shape, contain a high and a low sec-

tion. All 3 buildings are revetted on the west and south sides. The structure in the Rocket Motor Test Facility (item 11, Figure 5) was first observed in ______ It measures 180 by 55 feet with a low shed section approximately ______ feet. Although both insepction buildings in the Advanced Solid Propellant Facility were com-

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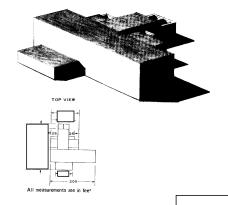


FIGURE 6. ARTIST'S CONCEPTION OF SMALL ROCKET MOTOR TEST

DOLLDING IN THE ROCKET MOTOR TEST FACILITY (New 6, 11gure 7).
pleted in one (item 24, Figure 3) was
begun in the other (item 14, Figure 3) in early
1964. Overall dimensions for these structures are sim-
ilar to those for the building in the Rocket Motor Test
Facility. Item 14 (Figure 3) measures by 90 feet
and item 24 (Figure 3) measures

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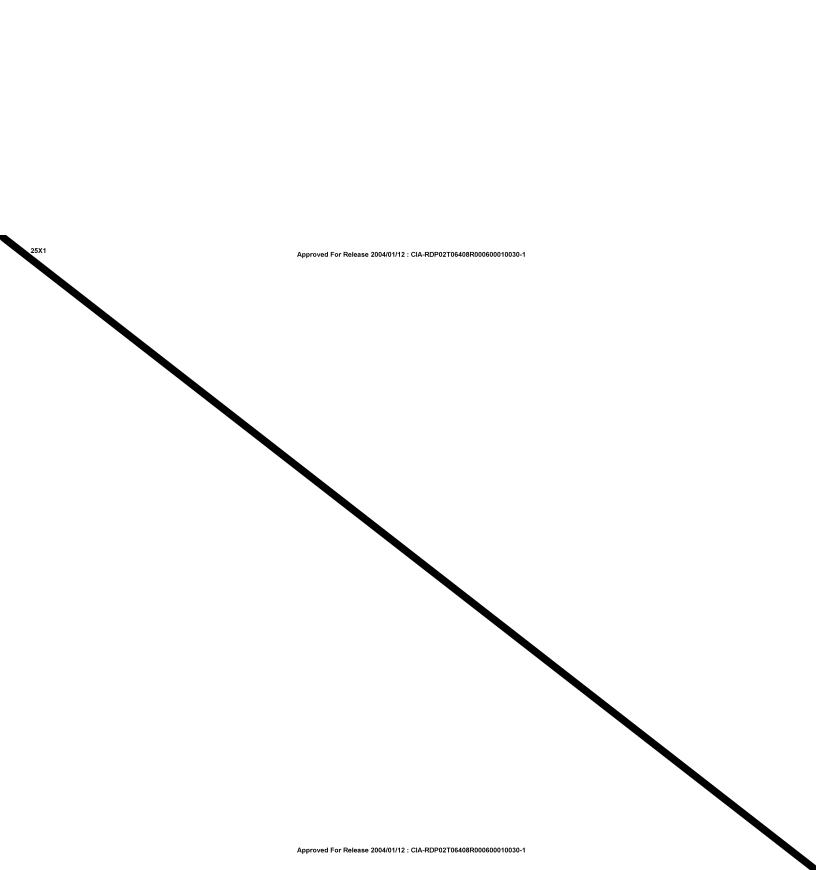
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25X1 TOP SECRET Approved For Release 2004/01/12 : CIA-RDP02T06408R000600010030-1 25X1 TO ISOLATED TEST POSITION 25X1 FIGURE 7. ROCKET MOTOR TEST FACILITY, Approved For Release 12004/07/112: CIA-RDP02T06408R000600010030-1 25X1



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CIA. C-DI5-82,973	
NPIC PROJECT	
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