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FORM 12-1
NPC R.1170 54
July 1964

Declassification Review by NIMA / DoD

PHOTOGRAPHIC INTERPRETATION REPORT

NEW SURFACE-TO-AIR MISSILE MOSCOW PARADE 1 MAY 1964

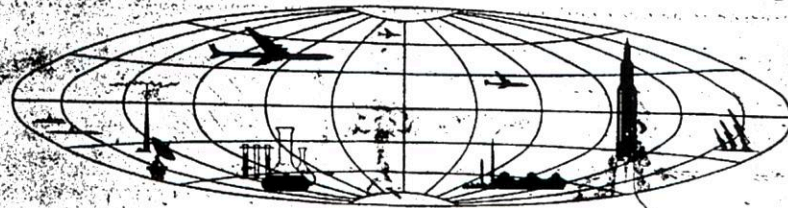


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GROUP 1
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SPIC R-1270-64

NEW SURFACE-TO-AIR MISSILE

MOSCOW PARADE

1 MAY 1964

This report is in response to CIA requirement C-514-81,368 requesting
 menuration and line drawings of the various components of the new track-mounted
 "twin" surface-to-air missiles observed in the 1964 Moscow May Day Parade.
 [redacted] photography of the parade revealed five transporter/launchers, each
 with two surface-to-air missiles (Figure 1). The numerical designations, 284572,
 284565, 284571, 284566, 284570, 284564, 284567 and 284568 are visible on eight
 of the missiles. The designations of the two remaining missiles could not be
 determined. Dimensional drawings and additional photography of the missiles are
 shown in Figures 2 through 4.

25X1C

25X1B

25X1B

25X1B

25X1B

25X1B

25X1B

25X1B

[redacted]

Each missile appears to be single stage with four "strap-on" boosters and two
 sets of four fins. The overall length of the missile is [redacted] with a maximum
 diameter of [redacted]. The maximum length of the transporter/launcher, including
 the two missiles, is [redacted]. The four
 boosters are each [redacted] long, not including the nozzle assembly, and [redacted] in
 diameter. The booster nozzles are flared and angled away from the center line
 of the transporter. Two small triangular-shaped fins [redacted] are located at
 the front of each booster, and two small rectangular fins [redacted] are
 located at the rear of each booster. The forward booster fins are angled away from
 the center line of the missile by approximately 25 degrees. Each of the four forward
 missile fins has a maximum length of [redacted] and tapers from a width of [redacted]
 to [redacted]. A probe located on the leading edge of each of the four forward fins
 measures [redacted] in diameter. Each of the four rear mis-
 sile fins [redacted] at the widest point, tapering [redacted].
 The rear top-mounted fin has a small extension [redacted] long and [redacted]
 diameter which could possibly be used as an antenna. The three remaining rear
 fins have no appendages. Both the forward and rear fins are connected 90 degrees
 to the missile body by control-fin pivots; however, the forward fins are set at 45
 degrees relative to the rear fins.

25X1B

25X1B

25X1B

25X1B

25X1B

25X1B

25X1B, 25X1B

25X1B

The transporter/launcher is a tracked vehicle [redacted]
 wide, apparently of a new design rather than a modification of an older tracked
 vehicle. It appears that the transporter/launcher gives the missile an elevation
 and traverse capability. When the transporter/launcher is in its travel mode, the
 top-mounted rear fin of each missile is removed and stored between the two
 missiles, giving a traveling height of [redacted]

25X1B

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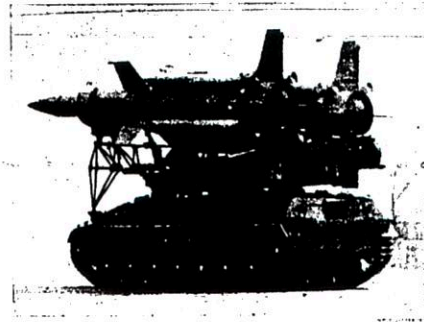
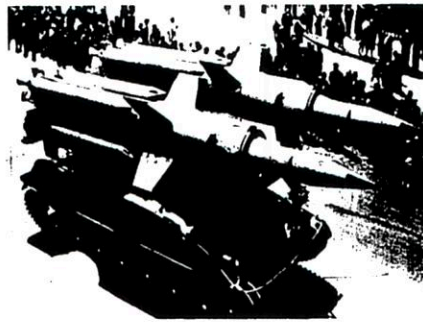
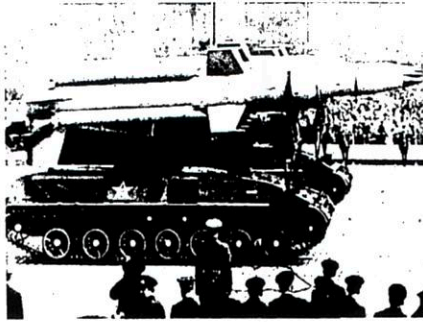


FIGURE 1. PARADE VIEWS OF THE NEW MISSILES AND TRANSPORTER LAUNCHERS.

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FIGURE 2. DIMENSIONAL DRAWING AND PHOTOGRAPHY OF THE NEW MISSILE (SIDE VIEW).

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25X1B

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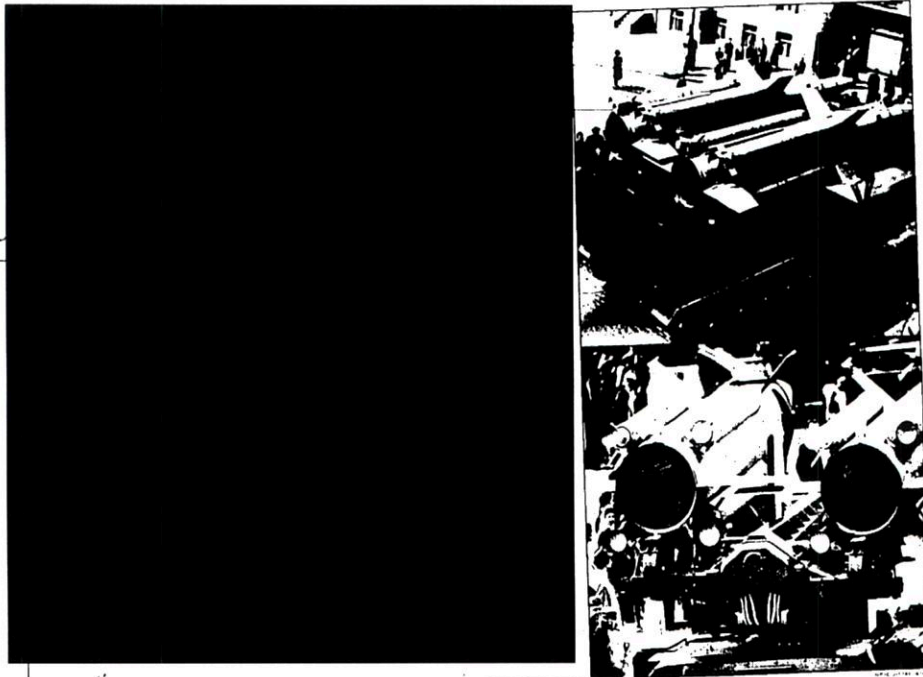


FIGURE 4. DIMENSIONAL DRAWING AND PHOTOGRAPHY OF THE NEW MISSILE ON THE TRANSPORTER LAUNCHER (REAR VIEW)

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[REDACTED]

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REQUIREMENT

CIA. C-54-41,244

NPRC PROJECT

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