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NORTH AMERICAN AIR DEFENSE COMMAND

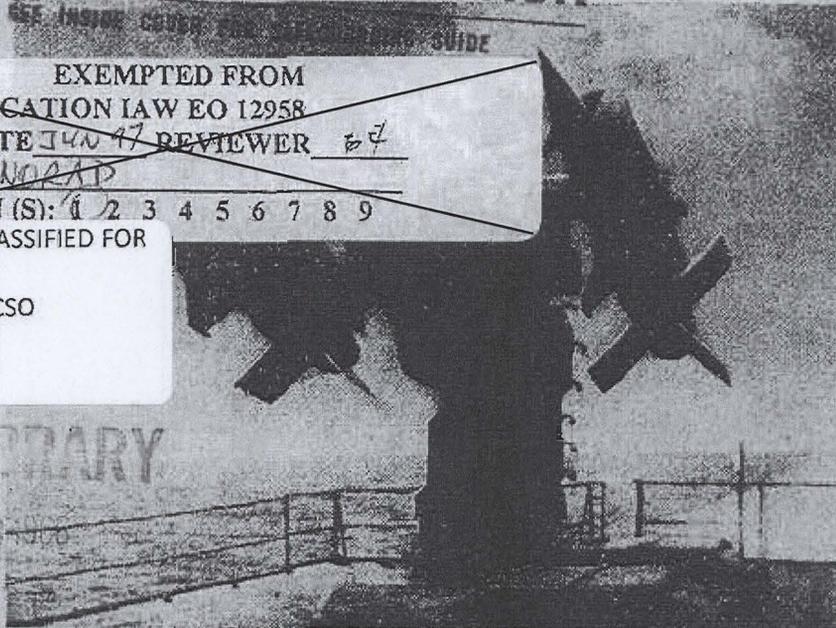
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WEEKLY INTELLIGENCE REVIEW (U)

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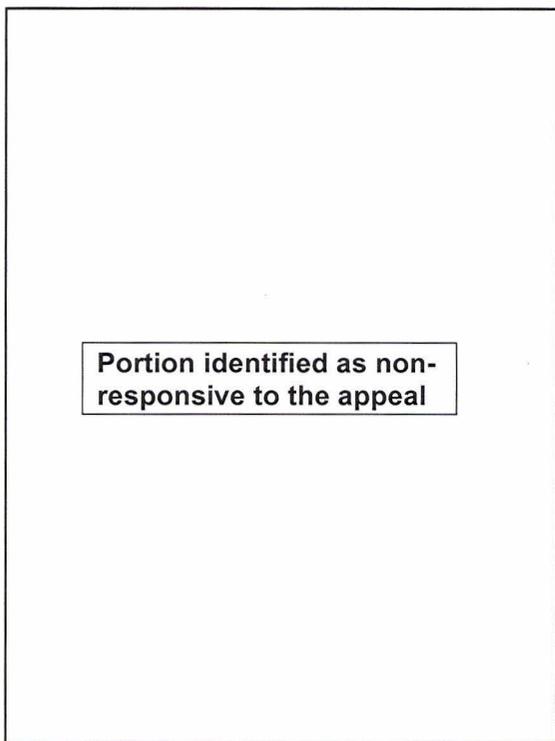
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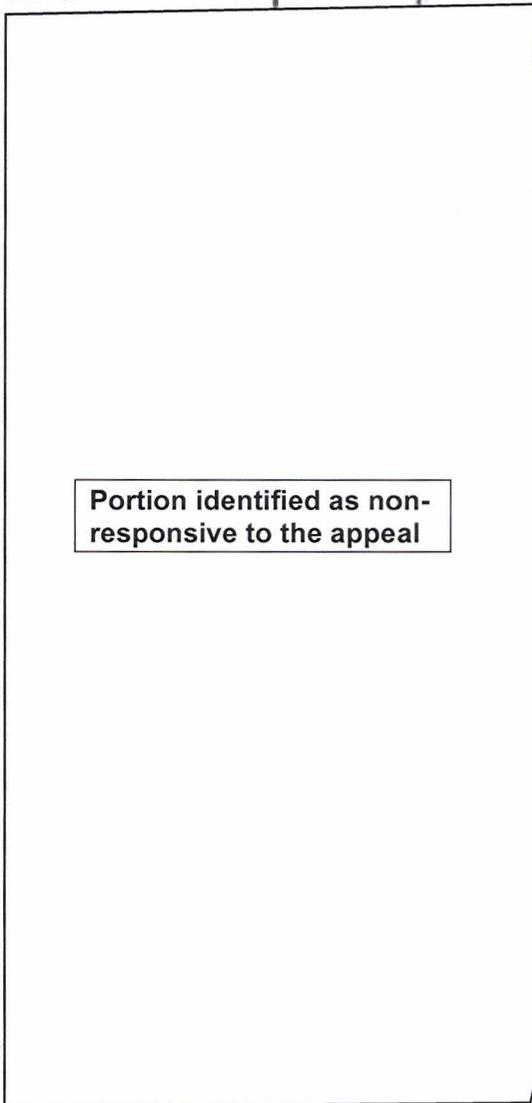
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Issue No. 2/66, 14 January 1966

The WIR in Brief



Portion identified as non-responsive to the appeal



Portion identified as non-responsive to the appeal

Space

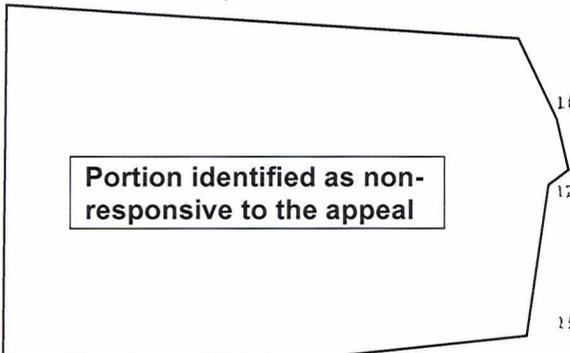
RESERVE RETROROCKET ON VOSKHOD WAS SOLID-FUELED

Vostoks, which flew at lower altitudes, probably did not need reserve rocket.

PHOTORECCE SATELLITE PROGRAM FOR 1966

GETS OFF TO EARLY START WITH COSMOS 104

Launched 7 January.



Portion identified as non-responsive to the appeal

COVER: GOA/SA-3 missiles mounted on shipboard launchers (from Red Star) (OFFICIAL USE ONLY)

NOTE: Pages 28, 29, 32, 33, 36, 37, 40, 41, and 42 of this issue are blank.

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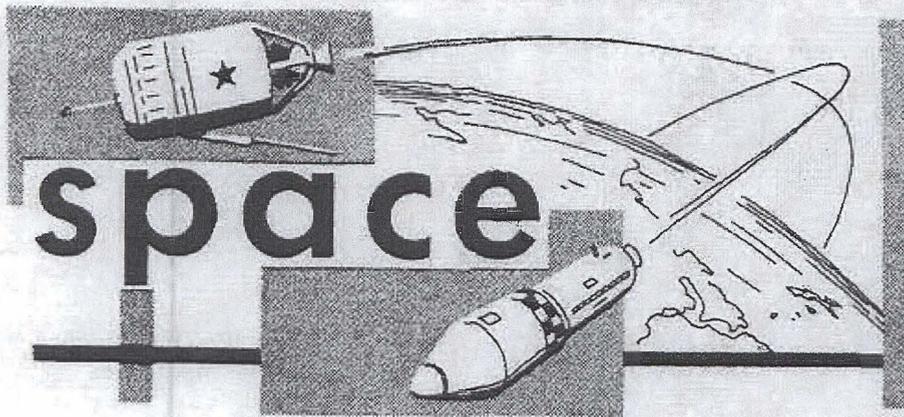
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significant
intelligence
on space
developments
and trends

Reserve Retrorocket on Voskhod Was Solid-Fueled

The two-man Voskhod 2 (launched 18 March 1965) reportedly carried two retrorockets -- the primary one liquid-fueled, the reserve one solid-fueled. Either reportedly could have been used to de-orbit the space craft.

A solid-fueled retrorocket capable of de-orbiting the 12,500-pound Voskhod 2 would probably weigh about 700 pounds.

The Soviets have previously said that the two-man Voskhod 1 (launched 12 October 1964) also had a reserve retrorocket, but they did not specify the type of fuel burned.

The one-man Vostoks (1961-1963) did not need a reserve retrorocket, since their orbits were so low that they would have come down within about eight days as a result of natural orbital decay had retrofire failed. The two Voskhods, however, were placed in a much higher orbit of much longer orbital-life expectancy.

(CIA)

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Photorecce Satellite Program for 1966 Gets Off to Early Start With Cosmos 104

The Soviets launched Cosmos 104, their first photoreconnaissance satellite of 1966, from Tyuratam at about 0820Z, 7 January. They launched 17 such vehicles last year, beginning with the 11 January launch of Cosmos 52.

NORAD Space Defense Center has reported the parameters of the newest vehicle as follows:

Inclination	65.01 degrees
Period	90.2 minutes
Apogee	403.2 km (217.7 n.m.)

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Perigee

201.3 km (108.7 n. m.)

Cosmos 104 was launched by the SS-6 ICBM booster-sustainer
and injected into orbit by the light Lunik upper stage.

(NORAD; Space Defense Center)

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