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National Foreign Assessment Center Top Secret

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## Weapons Intelligence Daily Review

8 March 1978

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## OFFICE OF WEAPONS INTELLIGENCE Weapons Intelligence Daily Review

8 MARCH 1978

CUSMOS 954 -- A SUMMARY

Cosmos 954, a nuclear powered radar ocean reconnaissance satellite (RURSAT) launched on 18 September 1977, reentered the atmosphere over northern Canada on 24 January 1978. To date, at least 10 pieces of the satellite have been located, one of which is highly radioactive.

Cosmos 954 was launched two days after the launch of another RORSAT, Cosmos 952. (Normally, the Soviets launch RORSATs in pairs in the same orbital plane.)

Cosmos 952 and 954 collected data in a cooperative role against surface vessels

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On 6 January, Cosmos 954 began to tumble, accelerating its rate of orbital decay. It then was apparent that the Soviets would be unable to boost its nuclear reactor into a higher orbit. We do not knew why Cosmos 954 began to tumble. It may have depleted its supply of attitude control gas or it may have, as stated by TASS, undergone a fast depressurization due to a collision "with some other object of natural or artificial origin."

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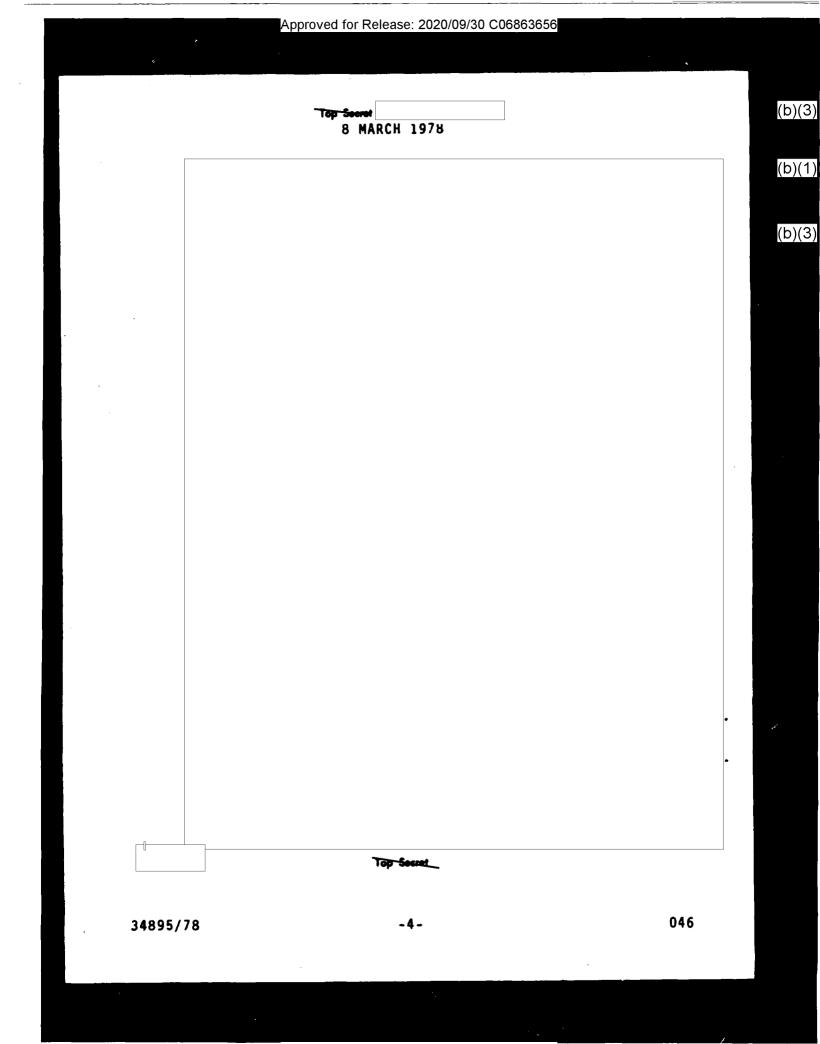
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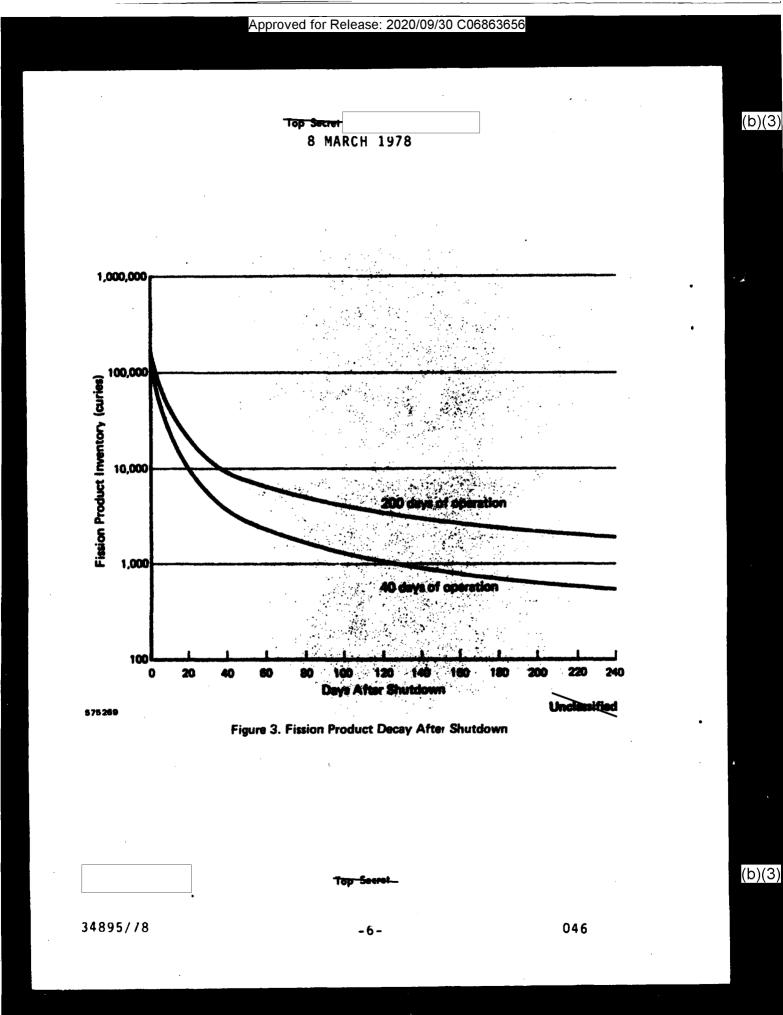
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Ine RURSAL'S development program has been a long one. In the last few years, there have been numerous failures in the program; however, Cosmos 954 was the only vehicle which failed to boost its nuclear payload into a disposal orbit. In spite of its long development program, these recent RORSAT failures lead us to question this satellite system's reliability. It is possible that subtle, undetected changes or improvements to various subsystems have been made to update the system, causing the erratic demonstrated lifetimes. Despite the recent failures, we expect the RORSAT to continue to be used in controlled situations to monitor US and Allied exercises.

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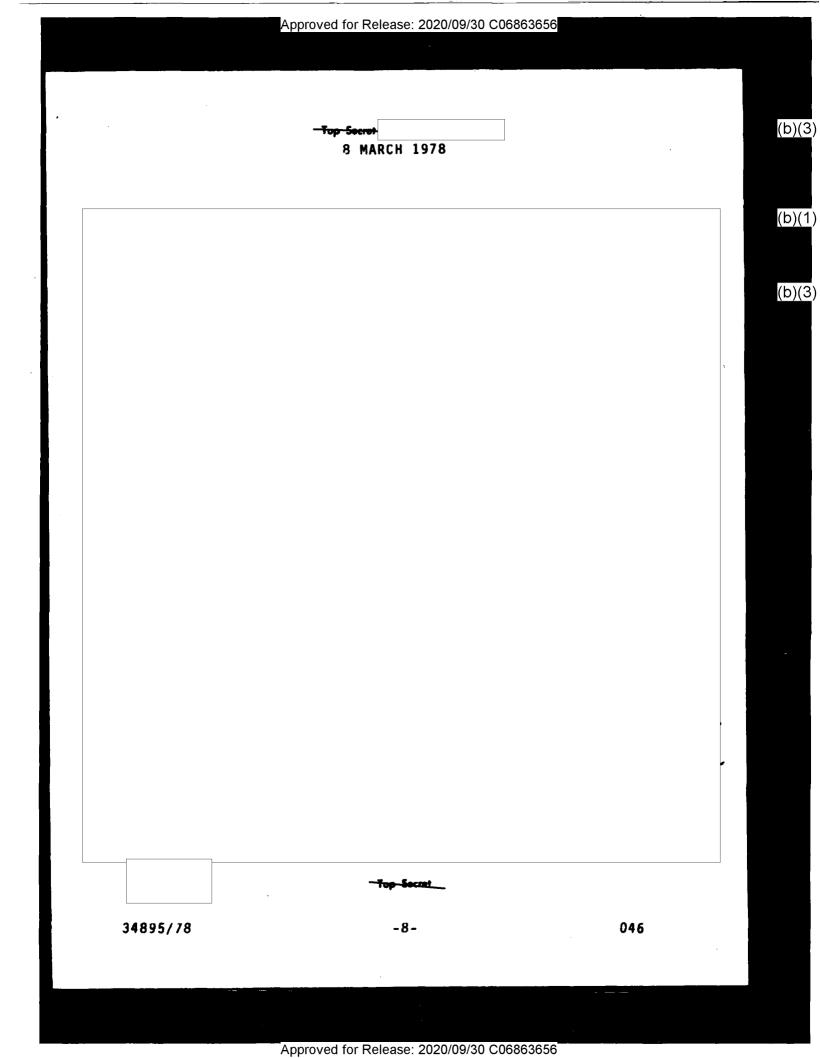
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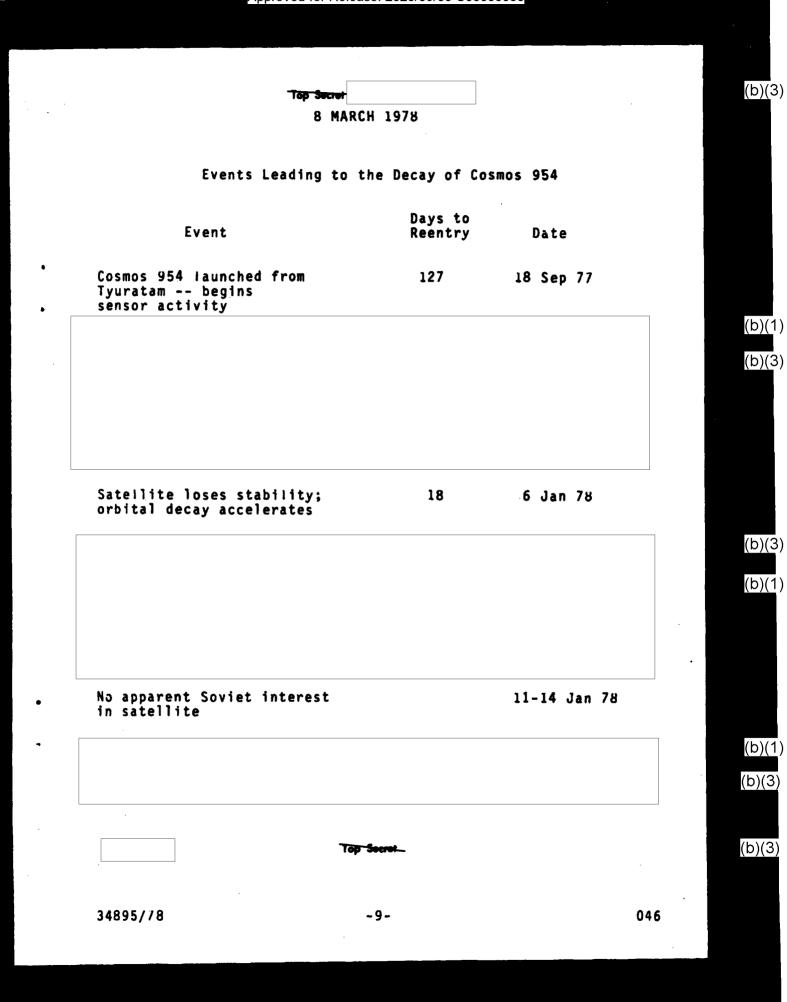
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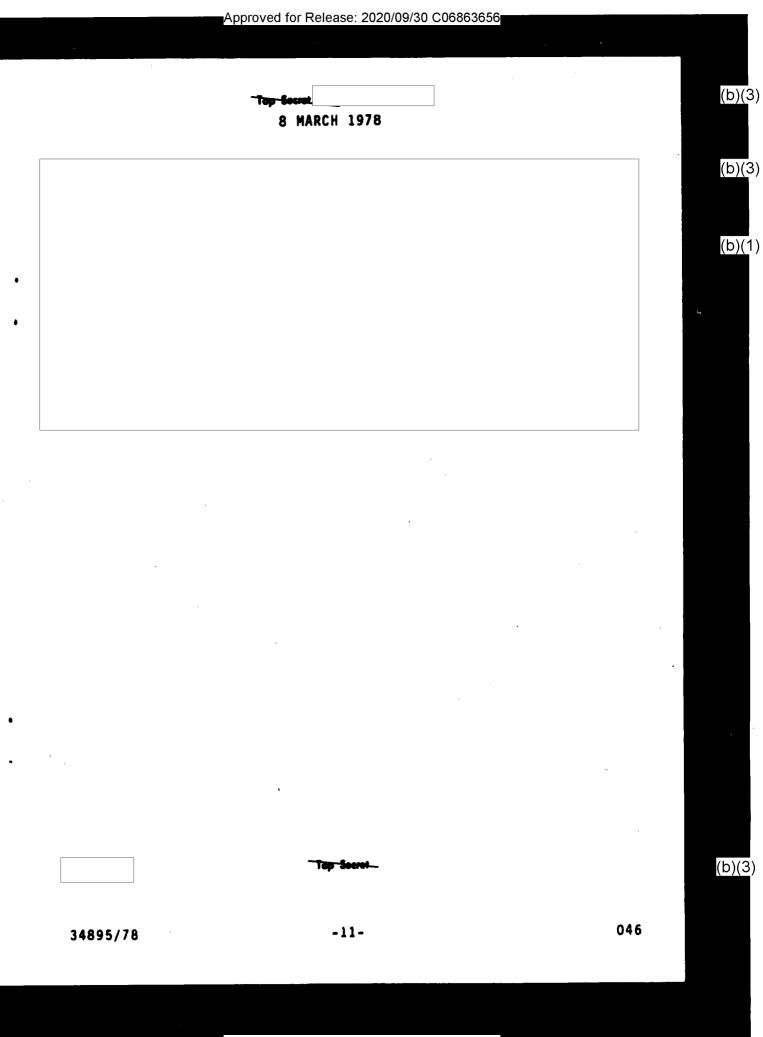
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Chemical, biological and radiological exercises by Soviet and non-Soviet Warsaw Pact forces, possibly in preparation for Cosmos 954's reentry	16-19 Jan 78	•
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