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*Iraq*

CENTRAL INTELLIGENCE AGENCY  
OFFICE OF CURRENT INTELLIGENCE  
19 September 1962

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CURRENT INTELLIGENCE MEMORANDUM

SUBJECT: Soviet Missiles for Iraq

1. Under the Soviet military aid program, Iraq is to receive air-to-air, surface-to-air and anti-tank missiles during the years 1962 through 1964.

2. The air-to-air missile will be used as armament for the MIG-21, a high performance fighter, 16 of which are to be delivered to the Iraqi air force. Thirty-two missiles will be delivered this year and 128 in 1963. This will allow for ten missiles per MIG-21. On combat missions the MIG-21 carries two air-to-air missiles. The missile we believe is being delivered to Iraq--designated ATOLL by Western intelligence--has the following characteristics:

Length	9 ft.
Weight	200 lbs. (25 lbs. of HE warhead)
Speed	aircraft speed plus Mach 2
Range	6 n.m.
Accuracy	10-15 ft.
Guidance	infra-red homing

The nearest US equivalent is an early version of the Sidewinder, which was initially operational in 1956. The Sidewinder has the following characteristics:

Length	9 ft.
Weight	155 lbs.
Speed	comparable to Soviet missile
Range	2 n.m.
Accuracy	comparable to Soviet missile
Guidance	infra-red homing

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Sidewinder has been improved and later missiles such as the Zuni, Genie, Sparrow III, and Falcon have better performance characteristics.

3. The surface-to-air missile is believed to be an early version of the Guideline, which is used in the widely deployed Soviet SA-2 system. Four firing batteries are being provided for the defense of the Baghdad area. These will arrive in 1963 and each battery will have six launchers. In addition there will be one training battery which is scheduled to arrive this year. Sixteen missiles will be delivered this year and 100 more in 1963. The program will thus allow four missiles per operational launcher and 20 for training. Guideline's characteristics are as follows:

Length	37 ft.
Configuration	two stage (solid booster, liquid sustainer)
Warhead	HE
Range	20-25 n.m.
Effective altitude	10,000-60,000 ft.
Accuracy	200 ft.
Guidance	radio command
Weight	?

The nearest US equivalent is the Nike-Ajax, which was initially operational in 1953 and has the following characteristics:

Length	31 ft.
Configuration	two stage (solid booster, liquid sustainer)
Warhead	HE
Range	25 n.m.
Effective altitude	60,000 ft.
Accuracy	comparable to Guideline
Guidance	radio command
Weight	2,300 lbs.

Nike-Ajax is being replaced by the far more advanced Nike-Hercules, which has a ceiling of more than 150,000 feet.

4. The anti-tank missile is believed to be that first shown in the May Day 1962 parade in Moscow and is the only known

Soviet anti-tank missile. The contract provides for the delivery in 1963 and 1964 of 84 launchers (amphibious, armored scout cars) and 972 missiles. Each launcher carries three missiles in combat. Characteristics are as follows:

Length	45 ins.
Warhead	10 lbs. (HE or shaped charge)
Range	about 1 mi.
Speed	about 300 mph
Booster	solid fuel
Guidance	wire guided

The nearest US equivalent is the SS-10, procurement for which was begun in 1959. It is now being phased out and replaced with more advanced systems. Following are characteristics of the SS-10:

Length	34 ins.
Warhead	armor piercing HE
Range	about 1 mi.
Speed	180 mph
Booster	solid fuel
Guidance	wire guided