

[REDACTED]

[REDACTED]

SECTION 3 OF 18

[REDACTED]

[REDACTED]

BODY

SUBJECT: SCIENCE AND WEAPONS REVIEW CABLE,
SW SWRC 89-5002K, 10 JANUARY 1989

(RVS) OF SS-21 AND SS-23 SHORT-RANGE BALLISTIC MISSILES.

TO OBTAIN INITIAL TARGET POSITION AND VELOCITY DATA, THE
ARROW WILL RELY ON A PHASED-ARRAY RADAR, [REDACTED]

AFTER TARGET TRACK BY THE RADAR, THE ARROW WILL BE LAUNCHED.
IT WILL USE GROUND-BASED RADAR-DERIVED DATA FOR THE INITIAL
PORTION OF FLIGHT. AN ONBOARD INERTIAL MEASUREMENT UNIT THEN
WILL FLY IT TO [REDACTED] THE
ESTIMATED INTERCEPT POINT, [REDACTED]

TARGET KILL WILL BE EFFECTED BY A NONNUCLEAR, SHAPED WARHEAD.
THE PLANNED PROBABILITY OF KILL IS 90 PERCENT. [REDACTED]

[REDACTED]

[REDACTED] THE THREE
ARROWS MODIFIED TO SIMULATE TACTICAL BALLISTIC MISSILES WILL

[REDACTED]

*Bracketed
Denied*
[REDACTED]
[REDACTED]

[REDACTED]
FLY A PROFILE SIMILAR TO THAT OF THE SS-23. THEY WILL BE LAUNCHED FROM A BARGE IN THE MEDITERRANEAN TOWARD THE ISRAELI COAST. THE OTHER THREE ARROW MISSILES ARE TO INTERCEPT THEM FROM THE YAVNE MISSILE TEST CENTER SOUTH OF TEL AVIV. [REDACTED]
[REDACTED]

RELIABLE REPORTING INDICATES THAT THE ISRAELIS CONSIDER THE ARROW PROGRAM TO BE ON SCHEDULE. THE FIRST SOLID-MOTOR BOOSTER TEST [REDACTED] ACHIEVED PARTIAL SUCCESS, AND THE SECOND SUCH TEST [REDACTED] WAS COMPLETELY SUCCESSFUL. [REDACTED]

ISRAEL IS PRESSING THE UNITED STATES TO PROVIDE FUNDS FOR THE DEVELOPMENT OR PURCHASE OF THE ARROW SYSTEM'S ENGAGEMENT AND EARLY WARNING RADARS (IN ADDITION TO THE [REDACTED] DOLLARS ALREADY AGREED TO). [REDACTED]

TEST BED

IN ADDITION TO THE ARROW PROGRAM, A COMMAND, CONTROL, AND COMMUNICATIONS TEST BED WILL BE CONSTRUCTED TO CONDUCT COMPUTER SIMULATIONS OF PROPOSED ATBM DEPLOYMENT ARCHITECTURES. THE TEST BED WILL BE BUILT BY THE ISRAELI FIRM TADIRAN [REDACTED] AND THE CONSTRUCTION WILL TAKE ABOUT 30 MONTHS. THE [REDACTED] COST IS CURRENTLY BEING COVERED BY ISRAEL; HOWEVER, DEFENSE MINISTER RABIN HAS ASKED THAT THE COST BE SPLIT BETWEEN THE UNITED STATES AND ISRAEL, WITH THE UNITED STATES FUNDING 80 PERCENT, AS WITH THE ARROW PROGRAM. [REDACTED]

HYPERVELOCITY GUN

THE ISRAELIS HAVE ALREADY DEVELOPED A PROTOTYPE FOR A ADMIN [REDACTED]

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