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Prepared for possible presentation at the
303 meeting tentatively scheduled for 9 Dec 64.

4 minutes

Charts in Annex 1

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ILLEGIB

CENTRAL INTELLIGENCE AGENCY : CIA-RDP33-02415A00080002300003-4
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ILLEGIB

FAMILIARIZE YOU WITH PROJECT OXCART. THE AGENCY'S A-12 PROGRAM.

I WILL SHOW A BRIEF HISTORY OF THE PROJECT FROM PROGRAM APPROVAL

TO ITS PRESENT POSTURE. I WILL EXPLAIN THE A-12 RECONNAISSANCE
SYSTEM AND REVIEW THE OPERATIONAL ACCOMPLISHMENTS OF THE PROJECT.

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*BAILED GOVERNMENT 2
DIA
CAME AUGUST 2004*


CHART I

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PROJECT OXCART ~~SECRET~~  25X1A

INITIATED IN THE LATE 50'S AS A FOLLOW ON VEHICLE TO U-2. 25X1A

HERE WE SEE THE FAMILY OF


PICTURE SHOWS AIRCRAFT ON THE RAMP 

25X1A



25X1A

ALSO

~~CHART~~ SHOWS AIRCRAFT ON THE FLIGHT LINE  WHERE 25X1A

THE A-12, THE SR-71, THE AIR FORCE STRAT RECON VEHICLE, AND THE
PROTOTYPE INTERCEPTION, THE YF-12, WERE ALL TESTED OUT OF PUBLIC

VIEW TO PROTECT KNOWLEDGE OF THEIR EXISTANCE. ~~THE AIRCRAFT~~

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NOTE THE TWO SEATER - TRAINER WHICH HAD SMALL J-75 ENGINES
WHICH WAS USED FOR PILOT CHECKOUT - LIMITED TO MACH 1.6.

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CHART II
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RES Approval
KCB in Aug 1959

ROLLOUT - 2 1/2 YEARS - VERY SOPHISTICATED COMPLICATED AIRCRAFT
FEB 62

CAPABLE OF OPTG AT VERY HIGH ALTITUDE AND HIGH MACH

NUMBER. A/C DEVELOPED BY LAC UNDER DIRECTION OF

KELLY JOHNSON. ~~WH~~ HAD DESIGNED THE U-2

FIRST FLIGHT - IN A FEW MONTHS - RATHER HAIRY ONLY FLEW A FEW
APR 62

FEEET - PROBLEM WITH CONTROLS, SET IT DOWN AGAIN.

EMERG^{o/k} CAP - LIMITING FACTOR WAS AVAILABILITY OF THE AVIONICS
NOV 64
EQUIPMENT.

Group O/R - PLACED ON STANDBY BASIS - HAD FUEL STORAGE AND
NOV 65

DETACHMENT HOUSEKEEPING FACILITIES AT SEVERAL
FORWARD BASES TO MAINTAIN CAPABILITY TO OPERATE

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25X1A INCIRLIK. AIR REFUELING SUPPORT & AIRLIFT OF RECOVERY PERSONNEL PROVIDED BY [REDACTED] BEALE AFB.

PHASE DOWN - *DECISION MADE IN DEC 1966* PRESIDENT LOOKING AT THE PROGRESS OF OTHER SYSTEMS SUCH AS SATELLITES AND THE AF SR-71 WHICH WERE

GRADUALLY DEVELOPING READINESS CAPABILITY - DECIDED TO PHASE OUT THIS PROGRAM - ACTIONS IMPLEMENTED - *ASIC Lessons Learned 1966* TARGET DATE DEC 67, EXPENSIVE PROGRAM TO MAINTAIN;

25X1A (COVERT OPN - CIVILLIAN MAINT - CIA PILOTS - AIRLIFT OF PERSONNEL) CHANGING REQMTS AND CHANGING ^{AS TO} PHILOSOPHY, WHETHER A COVERT CAPABILITY WAS


CHART III

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AIRCRAFT - ALL TITANIUM CONSTRUCTION DELTA WING REFUELABLE

IN FLIGHT TO EXTEND OPERATIONAL RANGE - ANTI RADAR

ENERGY CANTED RUDDER - RADAR X SECTION REDUCTION ^{23X}1A

ABSORPTION MATERIELS. WHICH PROVIDED X SECTION 

THAT OF U-2. *Graphic illustration.*

ENGINE - J-58 BYPASS TURBOJET - CONTINUOUS AB FOR SUSTAINED
SUPERSONIC FLT.

SR USES 34 K ENGINE - 20 K HEAVIER, LONGER.

FUEL IN WING - SPEED LIMITED SOMEWHAT DUE TO SEALANT

200 NM 4-5M

PROBS - RESULTS IN RANGE/ALTITUDE DEGRADATION.

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CONTROLLED BY INLET SPIKE WHICH IS PROGRAMMED FOR
MACH # TRAVEL TOTAL 26 INCHES AFT AS SPEED INCREASES.

25X1A

PERFORMANCE

25X1A

EXCESS OF [REDACTED] DUE TO ENGINE TEMPS AND LOW

25X1A

EQUIVALENT AIRSPEEDS [REDACTED]

25X1A

25X1A

SURFACE TEMP UP TO [REDACTED] (HANGAR AFTER FLIGHT

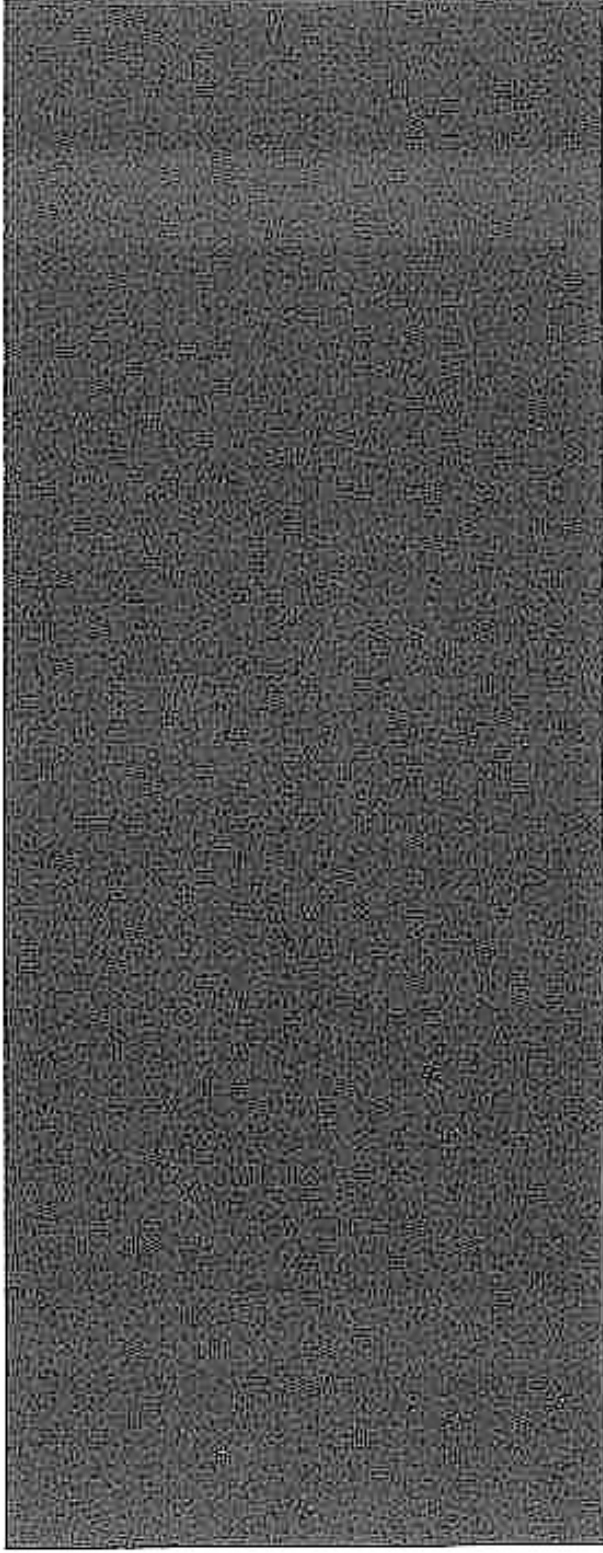
ACTIVATED SPRINKLER SYSTEM)

WILL CONTINUE

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OTHER AIR FORCE PROJECTS & PROGRAMS

BENEFICIAL TO SUPERSONIC TRANSPORT DEVELOPMENT BY
PROVIDING AIRFRAME DESIGN DATA, DATA ON MATERIALS
FABRICATION (TITANIUM & PLASTICS), FUEL TECHNOLOGY,
ENGINE & WING PERFORMANCE,
COMPUTER PROGRAMMED AIRCRAFT SYSTEMS AND ESPECIALLY
IN ANTICIPATING OPNL CAPABILITIES AND PROBLEMS RELATED
TO SUPERSONIC FLIGHT.

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ALL TECHNIQUES RELATED TO THIS PROFILE WERE THE RESULT OF
METICULOUS FLIGHT TEST PROGRAMS RESULTING FROM OPNL EXPERIENCE.

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ALL OF THE KNOWLEDGE GAINED WAS PASSED ON TO THE AIR FORCE SR-71
PROGRAM.

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FLIGHT PLANNING FOR ALL A-12 MISSIONS WAS ACCOMPLISHED HERE AT
HQS BECAUSE OF THE COMPLEXITY OF FLIGHT PLANS AND THE AVAILABILITY
OF COMPUTER SERVICES. MOST ON BOARD SYSTEMS, PRINCIPALLY THE
INS AND CAMERAS WERE PROGRAMMED BY COMPUTERIZED OUTPUTS.

Minute
RUN 07 MISSION FILM.

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11 OPERATIONAL A/C BUILT

3 TEST (2 TAGBOARD, 1 LAC)

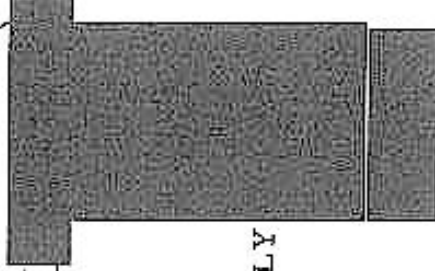
1 TRAINER

LOSSES - LIKE ANY OTHER DEVELOPMENT PROGRAM

5 OPERATIONAL AND 1 TEST AIRCRAFT LOST - 5 DUE TO MATERIEL

25X1A

FAILURE - 1 IMPROPER MAINTENANCE - 9 REMAIN (1 NOT SHOWN -



25X1A

1 - PITOT SYSTEM

2470114

2 - CONTROL SYSTEM FAILURE (BINDING ELEVONS)

3 - STABILITY AUGMENTATION SYSTEM - WIRED IMPROPERLY

4 - TAGBOARD

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5 - RAN OUT OF FUEL - FUEL GAUGING

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25X1A

6 - CATASTROPHIC ENGINE FAIL ON TEST FLIGHT


25X1A



SYS 6 - WIDE BAND ELINT COLLECTOR [REDACTED] ANGE.

EWS & CAMERAS - DETAIL ON SUBSEQUENT CHARTS.

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CHART VI
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for DATA All 10 pics

25X1A
EWS - ALL AUTOMATICALLY ACTIVATED - DEVELOPED  25X

 - PROVIDED PILOT WITH VISUAL WARNING 



NORTH VIETNAMESE FIRED AT MISSION AIRCRAFT ON 3 MISSIONS - TWO
MISSIONS MISSILES MISSED BY CONSIDERABLE DISTANCE. ONE MISSION NEW
TACTIC SALVO TYPE LAUNCHES FROM SEVERAL SITES - 6 TO 9 MISSILES
FIRED. CLOSE ENOUGH THAT PILOT SAW MISSILES PROGRAM IN ON HIM TO

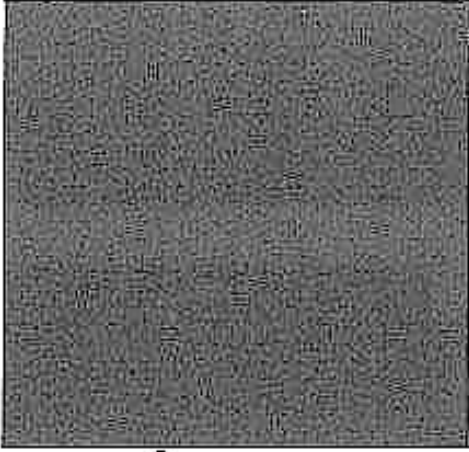
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WAS SPIRALING. CONTROL SURFACES JAMMED. HOLE IN AIRCRAFT.

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CHART VII
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TYPE I USED OVER NVN AND NK

18" - 3' RESOLUTION - HAZE DEGRADATIO

ELINT - LINE OF SIGHT COVERAGE.

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25X1A

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1
USE SAME FOR DATA
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SIMULATION FOR - RADAR & SECTION REDUCTION

STUDIES - ISOLATION STUDIES.

LAC AREA - FLIGHT TEST

OPS AREA

25X1A

HOUSING

[REDACTED] TOTAL POPULATION AT PROGRAM PEAK.

25X1A

25X1A

[REDACTED]
REST HOUSEKEEPING - MFG TECH REPS

FUEL STORAGE

[REDACTED]

HIGH PITCH TILT

FOR OPTG ENVIRONMENT.

REVIEW OF OPERATIONAL CONCEPT:

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* MISSIONS PLANNED, COMMANDED & CONTROLLED FROM OSA HEADQUARTERS.

CLOSE TO THE POLITICAL PULSE & APPROVAL AUTHORITY

TAKE ADVANTAGE OF LATEST GLOBAL WEATHER DATA

ATTENTION MAINTAINED A BRICK BATTION CAPABILITY IN A

* 24 HOUR ALERT POSTURE

25X1A

* MISSIONS FLOWN OUT OF [REDACTED] R FORWARD BASE AS REQUIRED DEPENDING

25X1A UPON NOTIFICATION TIME. I. E., 1967 MIDDLE EAST CONFLICT - READY TO

[REDACTED]

25X1A

* OVERFLIGHTS FLOWN AT [REDACTED] SING MIN PEN ALT OF 76 M.

* CIA CIVILIAN PILOTS.

* NO AIRCRAFT MARKINGS.

* B.L.A. [REDACTED] Approved For Release 2000/08/25 : CIA-RDP33-02415A000800230003-4 *(UNCLASSIFIED)*
TO HEAD Q/C

BLACK SHIELD DEPLOYMENT, *as mentioned earlier, came as a result of increasing*
concern over Chinese introduction of SSY's to Viet Nam.

FAR EAST CONTINGENCY DEPLOYMENT - PRIMARY MISSION WAS

SSM SEARCH OF VIET NAM.

COLLECTED PEOPLE AND THINGS - AF SUPPORT - G-141'S

KC-135 SUPPORT FROM BEALE TANKER SQUADRON. SPECIALLY

CONFIGURED TANKERS TO ISOLATE FUEL.

ALL ON SCHEDULE.

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DEPLOY SUMMARY

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CHART XII

TYPICAL BLACK SHIELD MISSION

MISSION'S PHOTOGRAPHY IN DISPLAY

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COVERAGE - SHOWS KIND OF COVERAGE CAPABLE OF OBTAINING
ON TWO GOOD SUCCESSIVE WX DAYS.

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NORTH KOREA MISSION

IN JAN 68 AFTER PUEBLO CAPTURE, APPROVAL RECEIVED TO
COVER NORTH KOREA - NOT ONLY FOUND THE PUEBLO BUT OBTAINED
EXCELLENT COVERAGE OF NORTH KOREA WHICH HADN'T BEEN AVAIL
TO INTEL COMMUNITY FOR QUITE SOME TIME.

(EXPLAIN MISSION)

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OPERATIONAL MISSION SUMMARY

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CHART XVI

REDEPLOY

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CHART XVII

AIRCRAFT STORED

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