

LIBRARY

REDCAP BRIEFING

9 JUN 95

REDCAP

- BACKGROUND OF FACILITY
- DESCRIPTION OF SYSTEMS
- REDCAP TEST PROGRAMS
- BRAC FINDINGS
- PROPOSED REDCAP SYSTEMS TO MOVE/DECOMMISSION

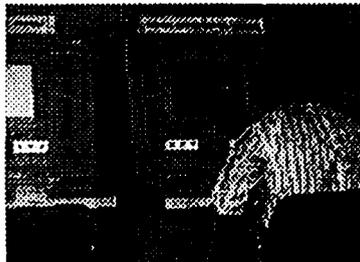
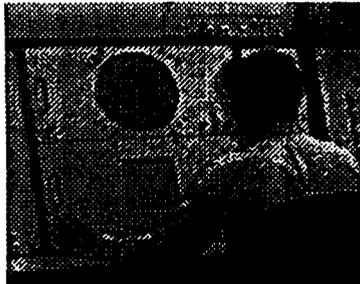
USAF REDCAP

**HIGH FIDELITY SIMULATION
OF THE
MODERN THREAT INTEGRATED
AIR DEFENSE SYSTEM
(IADS)**

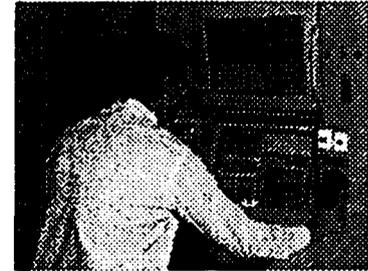
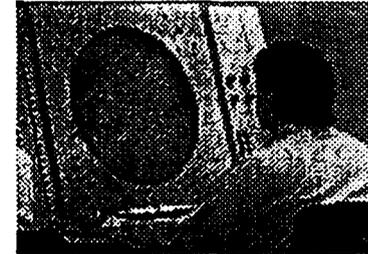
REDCAP FACILITY BACKGROUND

- **HISTORY**
 - SURVEILLANCE RADAR NETWORK SIMULATION EVOLVING FROM AFAL'S PENVAL ANALYSIS PROGRAM
 - BECAME OPERATIONAL IN 1968
- **PURPOSE**
 - SIMULATES THE SURVEILLANCE, EARLY WARNING (EW), BATTLE MANAGEMENT (BM), AND COMMAND, CONTROL & COMMUNICATION (C³) ELEMENTS OF A HOSTILE INTEGRATED AIR DEFENSE SYSTEM (IADS)
 - CAN SIMULATE A COMPLETE IADS WHEN AUGMENTED BY A TERMINAL DEFENSE (i.e., "SHOOTERS") SIMULATION SUCH AS AFEWES
- **STATUS**
 - AIR FORCE GOCO FACILITY (CONTRACTOR OWNS BUILDING)
 - OPERATED AND MAINTAINED BY CALSPAN ADVANCED TECHNOLOGY CENTER (ATC), BUFFALO NY
- **UPGRADE PROGRAM**
 - INITIATED BY THE AIR FORCE IN 1988
 - RESTRUCTURED IN 1991 DUE TO FUND WITHDRAWAL BY OSD
- **FUNDING SOURCE: PE 0604256F**
 - O&M (3600)
 - I&M (3600)
- **CALSPAN EMPLOYEES**
 - TOTAL CORPORATION: 1775
 - ATC: 475
 - REDCAP: 75

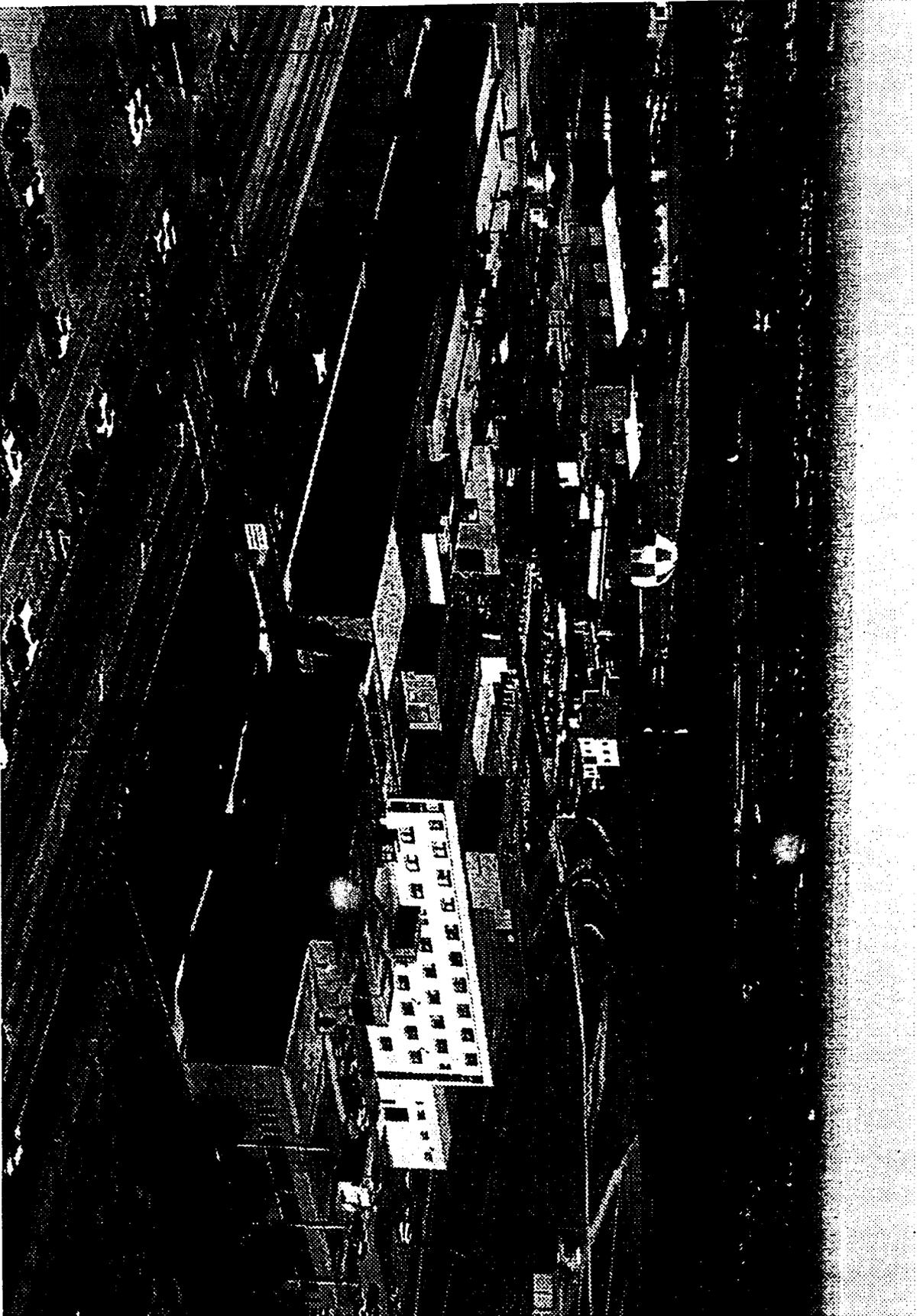
SIMULATING THE IADS WITH REDCAP



- Algorithm Level C3 Netting Simulation
- Man in the Loop
- Hardware in the Loop
- Real Receivers
- Pulse to Pulse RF
- Digital Simulation
- 30 Year Threat and EC Experience Base



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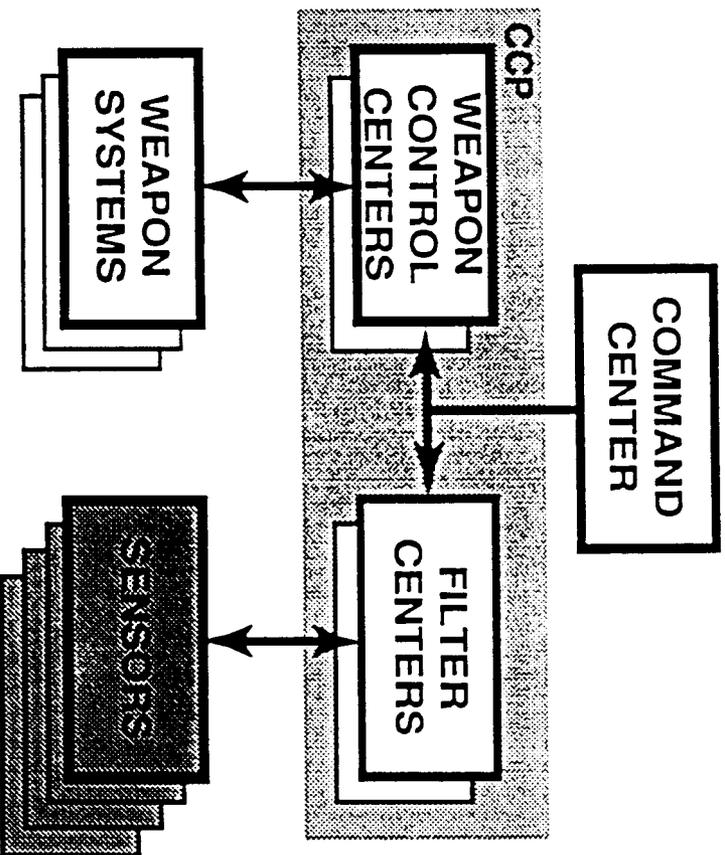
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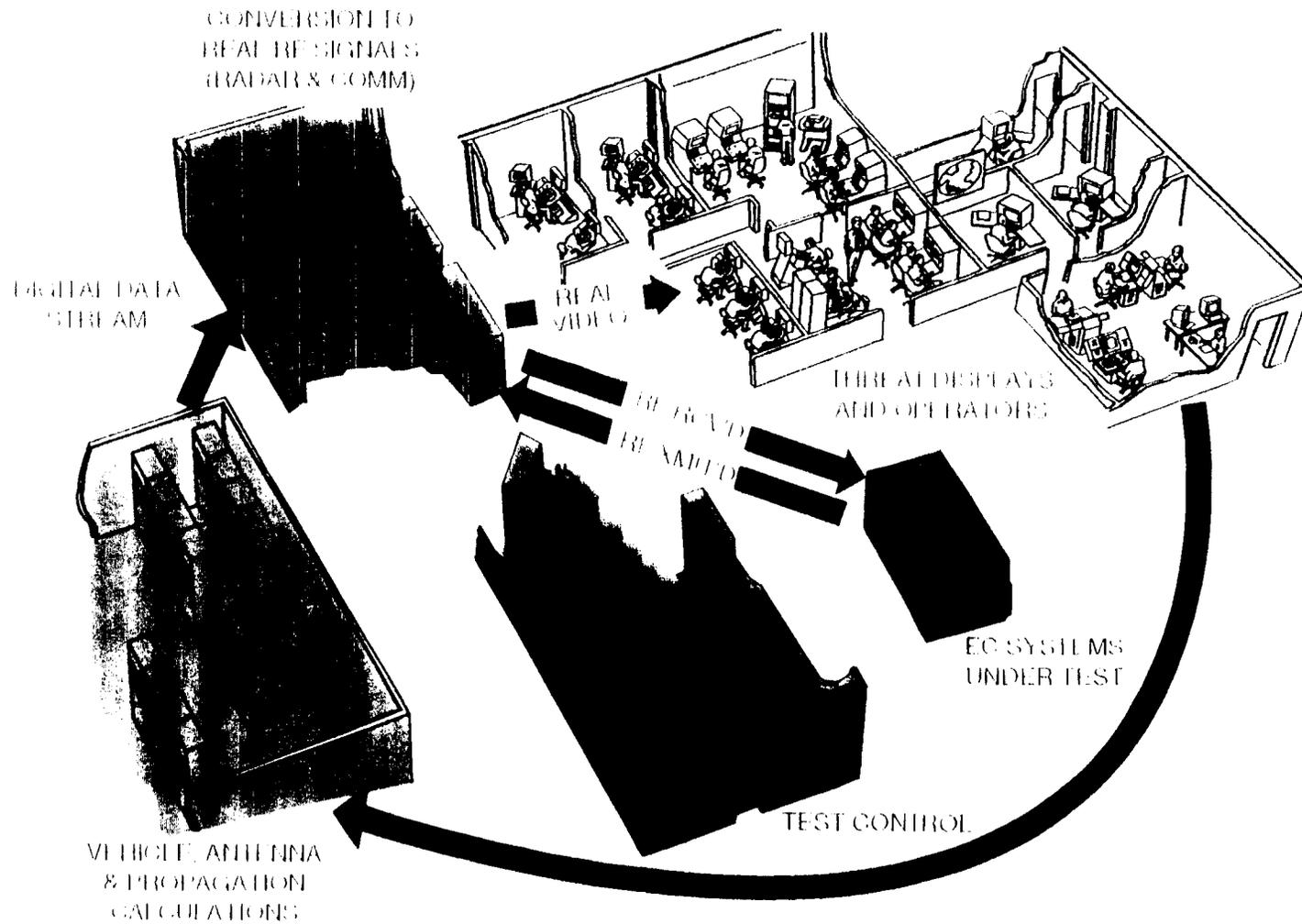
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Description of Systems

INTEGRATING THE THREAT ASSETS THROUGH COMMAND AND CONTROL



REAL TIME INTERACTIONS AT REDCAP



REDCAP COMPONENT DESCRIPTIONS

- **SUAWACS** - RECONFIGURABLE, CLOSED-LOOP SIMULATOR FOR SOVIET AIRBORNE WARNING AND CONTROL SYSTEM, USED BY THE CIS AND SOME CLIENT STATES
- **R1, R2, R3, R4, R5** - CLOSED-LOOP SIMULATORS FOR OLDER BUT STILL ACTIVE SURVEILLANCE/EARLY WARNING RADARS
- **EW/HF 1, EW/HF 2, EW/HF 3** - CONSOLES FOR SURVEILLANCE/EARLY WARNING RADARS ALSO HAVING HEIGHT-FINDERS
- **EW 1, EW 2, EW 3** - CONSOLES FOR SURVEILLANCE/EARLY WARNING RADARS NOT HAVING HEIGHT-FINDERS
- **PULSE ENVIRONMENT GENERATOR (PEG)** - OPEN-LOOP SIGNAL GENERATOR THAT PROVIDES THE BACKGROUND ENVIRONMENT FOR THE CLOSED-LOOP RADAR SIMULATORS
- **COMMEG, VOICE LINK, VHF DATA LINK (CVDL)**
 - **COMMEG** - OPEN-LOOP SIGNAL GENERATOR THAT PROVIDES THE BACKGROUND ENVIRONMENT FOR THE C³ LINKS
 - **VOICE LINK** - GCI LINKS BETWEEN THE AIRBORNE INTERCEPTOR (AI) PILOTS AND CONTROLLERS EITHER ON THE GROUND OR IN THE SUAWACS
 - **VHF DATA LINK** - LINKS BETWEEN COMPUTERS IN THE AIRPLANES (AI, SUAWACS) AND COMPUTERS ON THE GROUND

REDCAP COMPONENT DESCRIPTIONS

- **SSDL - IFF AND S-BAND DATA LINK SIMULATIONS**
 - **IDENTIFICATION FRIEND OR FOE (IFF)** - SIMULATION OF THE IFF SYSTEMS ON THE AIS AND SUAWACS
 - **S-BAND DATA LINK** - GCI DATA LINK FROM AI TO GROUND OR SUAWACS
- **UHF DATA LINK (UDL)** - DATA LINK FROM AI-TO-AI OR FROM AI-TO-SUAWACS
- **SYSTEM CONTROL** - SYSTEMS WHICH CONTROL THE TEST, NOT THREAT SIMULATORS. INCLUDES THE COMPUTER RUNNING THE SCENARIO, WHICH IS PART OF THE NEW SUN ARCHITECTURE.
- **VOICE SWITCH** - ANOTHER TEST CONTROL SYSTEM. CONTROLS VOICE COMMUNICATION AMONG TEST CONTROLLERS.
- **RADAR SWITCH** - ANOTHER TEST CONTROL SYSTEM. ROUTES VIDEO DISPLAYS FROM COCKPITS, RADARS, AND FUSION CENTERS TO TEST CONTROLLERS.
- **SPECIAL COMPARTMENTED INFORMATION FACILITY (SCIF) GATEWAY** - COMPUTER WHICH SCREENS ALL INCOMING AND OUTGOING MESSAGES TO PRESERVE SECURITY OF SCI INFORMATION. FACILITY SYSTEM, NOT A THREAT SIMULATION.

REDCAP COMPONENT DESCRIPTIONS

- **OFF-LINE (OL) SUPPORT** - COMPUTERS WHICH ENABLE SCENARIO PROGRAMMING, DATA PROCESSING/ ANALYSIS, AND HARDWARE/SOFTWARE MAINTENANCE. PART OF THE NEW, SUN COMPUTER ARCHITECTURE.
- **REMOTE INTERFACE** - H/W & S/W REQUIRED TO LINK REDCAP TO ANOTHER FACILITY (e.g., ACETEF)
- **GROUND COMMAND AND CONTROL(C²)** - SIMULATIONS OF IADS FILTER CENTERS, CONTROL POSTS, BRIGADE-LEVEL SAM C², ETC. INCLUDES ALL RED MAN-IN-THE-LOOP, EXCEPT AI PILOTS.
- **REACTIVE AIRBORNE INTERCEPTORS (AI)** - FOUR RECONFIGURABLE, MANNED COCKPIT SIMULATORS, COMPLETE WITH CONTROLS AND DISPLAYS, WHICH CAN SIMULATE THE ENTIRE MIG AND SU-SERIES OF SOVIET AIs.

REDCAP TEST PROGRAMS

On Contract

Planned

- B-1 MLAT
- F-117 CLOAR
- Combat ID Technical Support
- JADS
- B-2 STRATCOM
- F-22
- Project Warlock

BRAC Findings

T&E JCSG Alternatives Functional Values

Air Vehicles

Activity	JCSG FV
AFFTC- Edwards	85
NAWC - Pax River	81
NAWC - Pt Mugu	69
AFDTC - Eglin	56
476WEG - Tyndall	49
UTTR - Hill	46
AQTD - Edwards	46
EPG - Ft Huachuca	44
NAWC - China Lake	43
YPG - Yuma	35
ATTC - Ft Rucker	34
AFDTC - Holloman	33
NSWC - Dahlgren	25
NAWC - Indianapolis	19
AEDC - Arnold	18
NAWC - Warminster	14

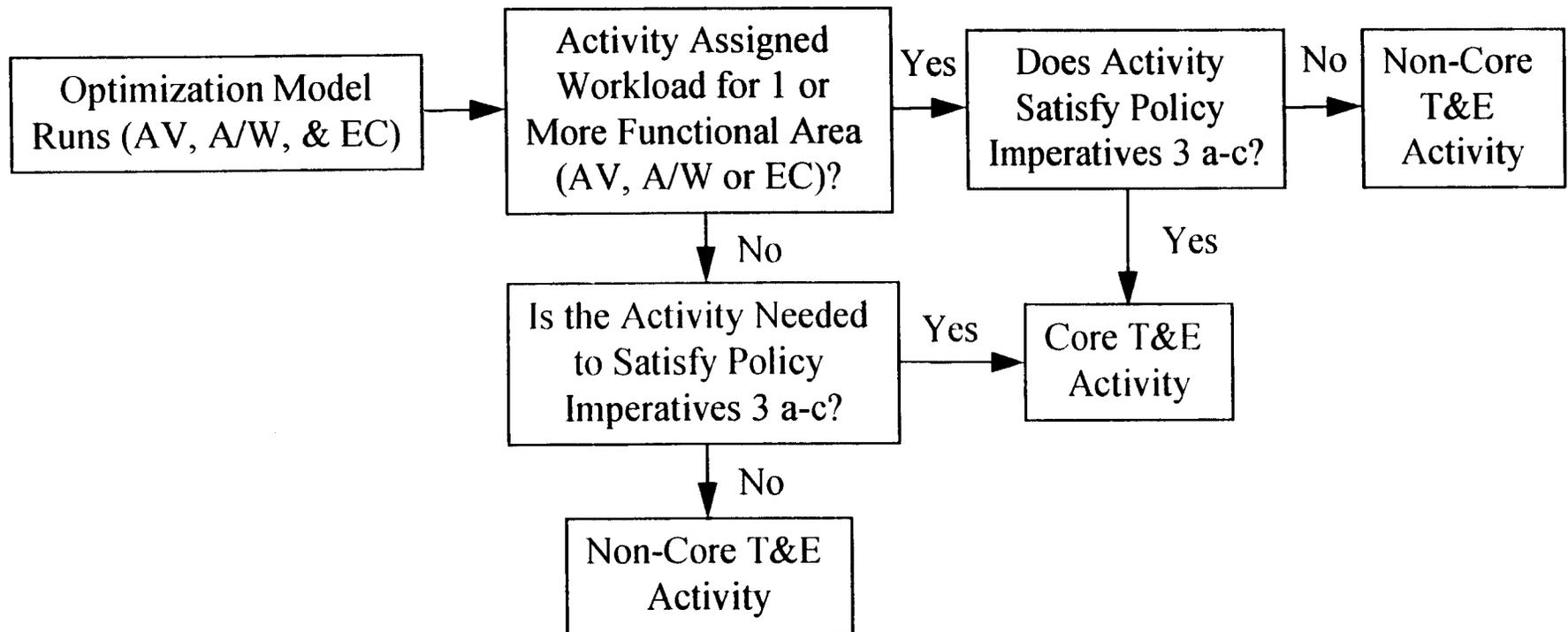
Armaments/Weapons

Activity	JCSG FV
AFDTC - Eglin	82
NAWC - Pt Mugu	77
NAWC - Pax River	57
NAWC - China Lake	57
WSMR	50
AFDTC - Holloman	30
YPG - Yuma	29
NAWC - WSMR	25
RTTC - Redstone	21
NSWC - Dahlgren	17
AEDC - Arnold	16
NSWC - Indian Head	14
NSWC - Crane	13

Electronic Combat

Activity	JCSG FV
AFDTC - Eglin	65
NAWC - Pt Mugu	58
NAWC - Pax River	53
AFFTC- Edwards	52
NAWC - China Lake	47
EPG - Ft Huachuca	47
AFDTC - Holloman	29
NSWC - Crane	17
AFEWES - Ft Worth	17
REDCAP - Buffalo	15

Core/Non-Core T&E Activities T&E JCSG Designation Process



Policy Imperatives:

- 3a. Retain Irreplaceable Air, Land, and Sea Space, as well as Diverse Topography and Climatology
- 3b. Retain Capabilities to Preserve Test Process (i.e., Satisfy DoD T&E Requirements)
- 3c. Realign/Consolidate into MRTFBs with Open-Air-Ranges

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Core/Non-Core T&E Activities

Summary

<u>MIL/DEP</u>	<u>Activity (Location)</u>	<u>Core</u>	<u>Non-Core</u>	<u>Retained by Opt Model</u>	<u>Retained as "Core" by T&E JCSCG</u>	<u>Rationale</u>	
AF	AFFTC (Edwards)	✓					
	AFDTC (Eglin)	✓					
	AEDC (Arnold)	✓					
	AFFTC (UTTR)	⊙			No	Yes	Cruise Missile Capability
	AFDTC (Holloman)	✓					
	475 WEG (Tyndall)						
	AFEWES (Ft Worth)			⊙	Yes	No	Not MRTFB OAR (PI 3c)
	REDCAP (Buffalo)						
	NAWC (Pax River)	✓					
	NAWC (China Lake)	✓					
	NAWC (Pt Mugu)	⊙					
	NAWC (W/SMR)				No	Yes	Unique Navy S-A Capability
Army	NAWC (Indianapolis)		✓				
	NAWC (Warrminster)		⊙		No	No	Not MRTFB OAR (PI 3c)
	NSWC (Dahlgren)		⊙		Yes	No	Not MRTFB OAR (PI 3c)
	NSWC (Indian Head)						
	NSWC (Crane)			⊙	Yes	No	Not MRTFB OAR (PI 3c)
	W/SMR	✓					
	EPG	✓					
	YPG	⊙			No	Yes	Unique Army Rotary Wing
	RTTC			✓			
	ATTC - Ft Rucker			✓			
AQTD - Edwards			✓				

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d. Compute average outlay baseline (AOB) for FY92 and FY93.

$$AOB = \frac{TBA_{92} + TBA_{93}}{2}$$

e. Divide total outlay baseline for fiscal year x from step c by the average outlay baseline from step d for fiscal years FY95 - FY01 to get the workload projection index for all functional areas.

$$I_x = \frac{TBA_x}{AOB} \quad x = FY95, FY96, \dots, FY01$$

f. Select test facility category (TFC_j; j = 1, 2, ..., 6) and functional area (FA_i; i = 1, 2, 3).

g. Compute total workload baseline for each test facility category for FY92 and FY93 within this functional area by summing over all sites s using test hour data from the Historical Workload form in the T&E JCSG Data Calls.

$$WTB_{ij} = \sum_s \frac{FY92_i \text{ Workload TFC}_j + FY93_i \text{ Workload TFC}_j}{2}$$

h. Multiply total workload baseline from step g by the workload projection index from step e to get the projected workload W_{xij} for test facility category j for fiscal year x and functional area i.

$$W_{xij} = FY_{xi} \text{ Workload TFC}_j = I_x \times WTB_{ij}$$

i. Repeat steps f through h for each test facility category and each functional area.

REDCAP NON-UTILIZATION

No Paying Customers - Past Three Years

- **SUAWACS**
- **PEG**
- **SSDL**
- **UDL**
- **CVDL**

PROPOSED REDCAP SYSTEMS TO MOVE/DECOMMISSION

MOVE

- SCIF Gateway
- Remote Interface
- Reactive AI
- Off Line Support
- SSDL (IFF & S-band DL)
- UDL (UHF A/A link)
- Classified Material

DECOMMISSION

- EW/HF (3)
- EW (3)
- Radars (5)
- Ground C2
- SUAWACS
- PEG
- System Control
- Voice Switch
- Radar Switch
- CVDL

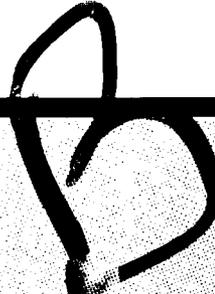
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BASE CLOSURE AND REALIGNMENT

REVIEW OF

OKLAHOMA CITY AIR LOGISTICS CENTER

7 JUN 95



OKLAHOMA CITY AIR LOGISTICS CENTER



BASE CLOSURE AND REALIGNMENT

REVIEW OF

OKLAHOMA CITY AIR LOGISTICS CENTER

7 JUNE 1995

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AGENDA

TINKER MISSION BRIEFING

TOUR ROUTE

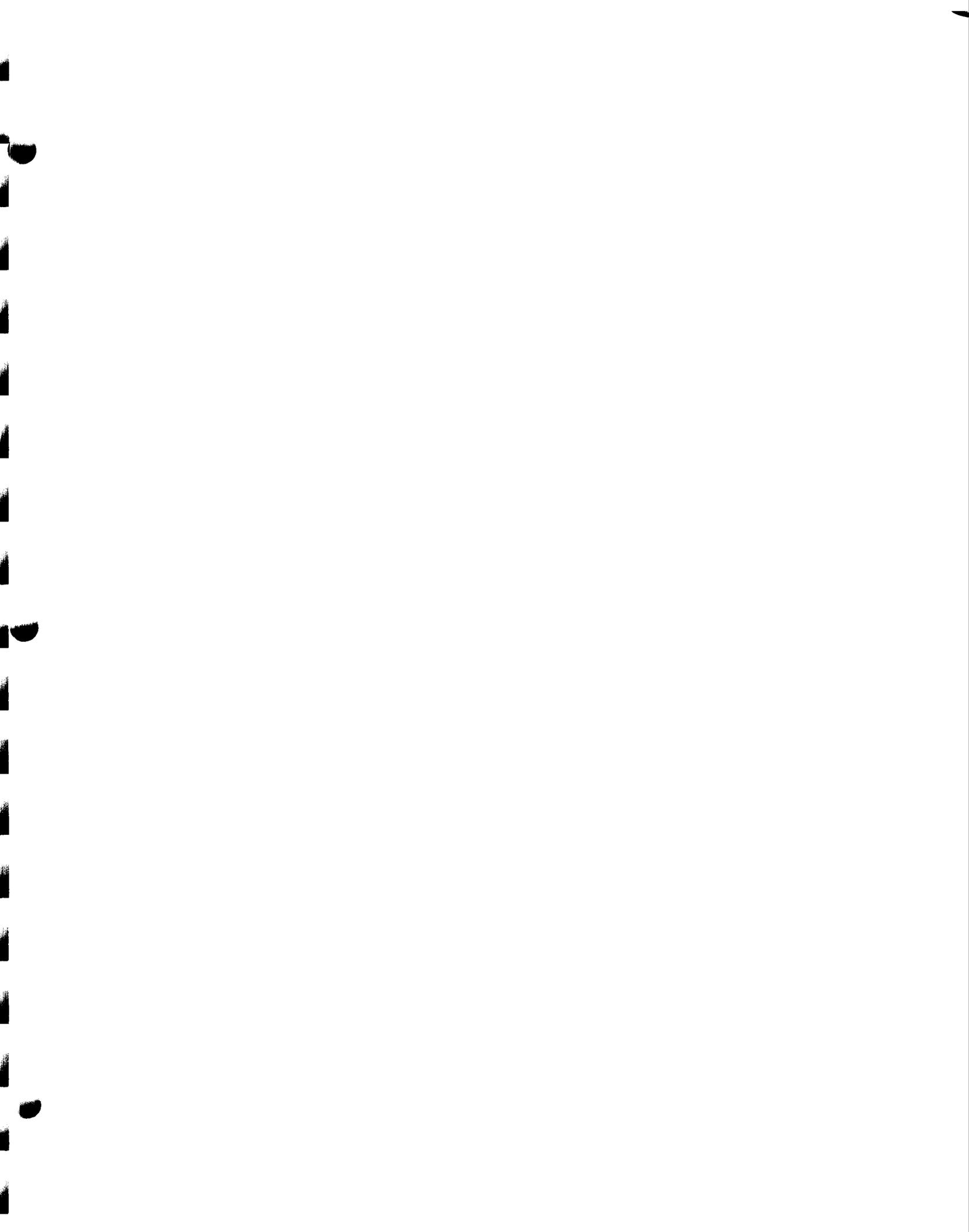
BREAK OUT BY ON-SITES AND
ENROUTE DRIVE-BYS

TABS 1-9

BRAC REVIEW OF OC-ALC

I.	MISSION/OPERATIONAL READINESS	TAB 1
II.	AVAILABILITY/CONDITION OF LAND/FACILITIES	TAB 2
III.	CONTINGENCY/MOBILIZATION	TAB 3
IV.	CLOSURE COSTS/MANPOWER EFFECT	TAB 4
V.	RETURN ON INVESTMENT	TAB 5
VI.	ECONOMIC IMPACT ON COMMUNITIES	TAB 6
VII.	COMMUNITY INFRASTRUCTURE	TAB 7
VIII.	ENVIRONMENTAL IMPACT	TAB 8
	SUMMARY	TAB 9

BASE COMPREHENSIVE PLAN



6 Jun 95
0730



DISTINGUISHED VISITOR ITINERARY



LT GEN LAWRENCE P. FARRELL, JR.
VICE COMMANDER, AFMC
* MR ALAN J. DIXON, CHAIRMAN
MR S. LEE KLING, COMMISSIONER
MR DAVID LYLES, STAFF DIRECTOR
MR JIM OWSLEY, STAFF ANALYST
MR BOB COOK, STAFF ANALYST
MS ANNE REESE, STAFF ANALYST
MR FRANK CANTWELL, STAFF ANALYST
* WADE NELSON, STAFF ANALYST
DEFENSE BASE CLOSURE & REALIGNMENT COMMISSION

Wednesday, 7 June 95

(Uniform: Short Sleeve Shirt w/Tie)

TIME TBD	LtGen Farrell arrives Base Ops (Via Mil Air)	Met by: MGen (Ken) Eickmann Mr (Jerry) Yanker
1150-1200	To TAFB Enlisted Club (Via DV Van)	Escort: MGen Eickmann Mr Yanker
MR KLING & STAFF ANALYSTS ARRIVE		
1200	Arrive TAFB Enlisted Club (Via Minibus)	Met by: MGen (Ken) Eickmann Mr (Jerry) Yanker
1200-1245	Lunch	Host: MGen Eickmann

TINKER ATTENDEES

Mr (Jerry) Yanker	Col (Randy) Mills
Mr (Bob) Conner	CAPT (Vern) Lohausen
Mr (Ron) Bledsoe	Col (Gary) Davis
Col (Ron) Leonard	Col (Ralph) Austin
Col (Tom) Miller	Ms (Gail) Boyce
Mr (Garry) Richey	Col (Gary) Salisbury
Col (Larry) Chadwick	Col (Michael) Liberto
Col (David) Hedges	Col (Stephen) Quick
Mr (Joe) Simmons	Col (Robert) Lytle
Mr (Allen) Lawrence	Mr (Jim) Bias
Mr (Gene) Pickett	

COMMUNITY LEADER ATTENDEES

LGen (Ret) Richard Burpee	Mr (Gary) Pence
Mr (Butch) Freeman	Mr (David) Wantland
Mr (Matt) Behrmann	

1210-1225	Tinker Today (Brief During Lunch)	MGen Eickmann
-----------	-----------------------------------	---------------

1245-1255 To Navy HQ, Bldg 830 Escort: MGen Eickmann
(Via Navy Minibus) Mr Yanker
(SP Escort) Mr Conner
Mr Bledsoe
CAPT Lochausen
Mr Simmons
Met by: LT (Flex) Plexico

Enroute Drive-by

- Chapel Complex
- Base Housing
- Urban Greenway
- 3CCG
- B-2 Weapon System Support Center (WSSC)
- 507th Air Refueling Wing
- New Mini-Mall (under construction)

* MR DIXON & MR NELSON ARRIVE AT 1300 VIA RENTAL CAR (ENTER GATE 34)

1255-1300 To Highbay Area Escort: MGen Eickmann
Mr Yanker
Mr Conner
Mr Bledsoe
CAPT Lochausen
Mr Simmons

1300-1310 On Site Visit, Highbay Trainer Area CAPT Lochausen

1310-1320 To Navy Ramp for Drive-by Escort: MGen Eickmann
(Via Navy Minibus) Mr Yanker
(SP Escort) Mr Conner
Mr Bledsoe
CAPT Lochausen
Mr Simmons

-- Stop at Hangar for "Tinker Minute" (EPM)

1320-1325 To Alert Facility via Taxiway Escort: MGen Eickmann
(Via Navy Minibus - Enter East Side) Mr Yanker
(SP Escort) Mr Conner
Mr Bledsoe
CAPT Lochausen
Mr Simmons
Met by: Col Davis

1325-1350 On-Site Visit
-- Navy Interservicing LCDR (Dave) Buckey
-- 552 ACW Interservicing Maj (Don) Miller
(Depart West Side - Main Entrance)

1350-1400

To Engine Test, Bldg 3234
(Enter North Door)
(Via Navy Minibus)
(SP Escort)

Escort: MGen Eickmann
Mr Yanker
Mr Conner
Mr Bledsoe
CAPT Lochausen
Mr Simmons
Met by: Mr Richey
Col (Larry) Stone

Enroute Drive-by

-- Aircraft Hangars
-- Bldg 2122 (B-1)
-- Bldg 2136 (E-3)
-- Bldg 2121 (B-52)
-- Corrosion Control Facility

1400-1410

On-Site Visit
(Exit South Door)

Col Stone

1410-1420

To Blade Facility, Bldg 3221
(Via Navy Minibus)
(SP Escort)

Escort: MGen Eickmann
Mr Yanker
Mr Conner
Mr Bledsoe
CAPT Lochausen
Col Stone
Mr Simmons

Enroute Drive-By

-- Bldg 3707
* Stop Between Bldgs & View Consolidated Fuels Facility &
view potential community support - "Hands Around Tinker"
-- Bldg 3708

1420-1425

Drive-Thru Blade Facility
(Via Navy Minibus)
(SP Escort)

Escort: MGen Eickmann
Mr Yanker
Mr Conner
Mr Bledsoe
CAPT Lochausen
Col Stone
Mr Simmons

1425-1430

To Defense Megacenter, Bldg 3900
(Via Navy Minibus)
(SP Escort)

Escort: MGen Eickmann
Mr Yanker
Mr Conner
Mr Bledsoe
CAPT Lochausen
Mr Simmons
Met by: Mr (Jim) Bias

1430-1445

On-Site Visit

Mr Bias

1445-1450	To Bldg 3001, Main Entrance (Via Navy Minibus) (SP Escort)	Escort: MGen Eickmann Mr Yanker Mr Conner Mr Bledsoe CAPT Lochausen Mr Simmons
1450-1455	To Hollywood & Vine	Escort: MGen Eickmann Mr Yanker Mr Conner Mr Bledsoe CAPT Lochausen Mr Simmons Met by: Col Stone Mr (Jack) Srnec
1455-1540	Industrial Shops Tour (Via Tram)	Escort: MGen Eickmann Mr Yanker Mr Conner Mr Bledsoe CAPT Lochausen Mr Simmons Col Stone Mr Srnec

* Denotes Stop

* -- GE Engine Line	
* -- Numerical Control	Mr Srnec
-- Carbon Dioxide Blasting	
-- TF33 Two Level Maintenance	
-- Inventory Tracking	
* -- Eddy Current Test	Col Stone
-- Springfield Grinders	
-- Quick Engine Change (QEC)	
-- Plating Shop	
-- Engine Manifold Cleaning	
* -- -135 Line	Mr (Al) Rich
-- TF30 Two Level Maintenance	
-- Return to Hollywood & Vine	

1540-1545	To CC Conference Room (Refreshments Available)	Escort: MGen Eickmann Mr Yanker Mr Conner Mr Bledsoe CAPT Lochausen Mr Simmons
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TINKER ATTENDEES

Mr (Jerry) Yanker	Col (Randy) Mills
Mr (Bob) Conner	CAPT (Vern) Lochausen
Mr (Ron) Bledsoe	Col (Gary) Davis
Col (Ron) Leonard	Col (Ralph) Austin

TINKER ATTENDEES (CONT'D)

Col (Tom) Miller	Ms (Gail) Boyce
Mr (Garry) Richey	Col (Gary) Salisbury
Col (Larry) Chadwick	Col (Michael) Liberto
Col (David) Hedges	Col (Stephen) Quick
Mr (Joe) Simmons	Col (Robert) Lytle
Mr (Allen) Lawrence	Mr (Jim) Bias
Mr (Gene) Pickett	

COMMUNITY LEADER ATTENDEES

LGen (Ret) Richard Burpee	Mr (Gary) Pence
Mr (Butch) Freeman	Mr (David) Wantland
Mr (Matt) Behrmann	

ELECTED OFFICIAL ATTENDEES *

Governor Frank Keating
Senator Don Nickles
Senator James Inhofe
Congressman J.C. Watts
Mayor Ron Norick

1545-1640	8-Criteria Briefing & Closing Remarks	MGen Eickmann
1640-1710	MR CANTWELL, MR OWSLEY & MS REESE To Will Rogers Airport (Via Van)	Escort: Mr (Ken) Barnes
1710-1730	Prepare for Departure	
1730	Depart Will Rogers Airport (Via NW Flt 1545)	
1640-1645	MR DIXON, MR KLING, MR LYLES, MR NELSON, MR COOK To Howard Conference Room Press Conference Site	Escort: Mr Pickett
1645-1700	Press Conference for Commission, Elected Officials, & Community Leaders	Local Media
1700-1705	MR DIXON, MR KLING, MR LYLES, MR NELSON, MR COOK To Main Entrance, Bldg 3001	Escort: MGen Eickmann Mr Yanker Mr Conner Mr Bledsoe CAPT Lochausen Mr Simmons
1705-1735	To Will Rogers Airport (Via Minibus)	Escort: Ms Lemieux Mr Hoog
1735-1755	Prepare for Departure	
1755	Depart Will Rogers Airport (Via TWA Flt 572)	

1805 MR COOK DEPARTS
 Will Rogers Airport
 (Via AMER Flt 3722)

1745-1750 LtGen Farrell to Base Ops Escort: MGen Eickmann
 (Via DV Van) Mr Yanker

1750-1800 Prepare for Departure

1800 Depart TAFB
 (Via Mil Air)

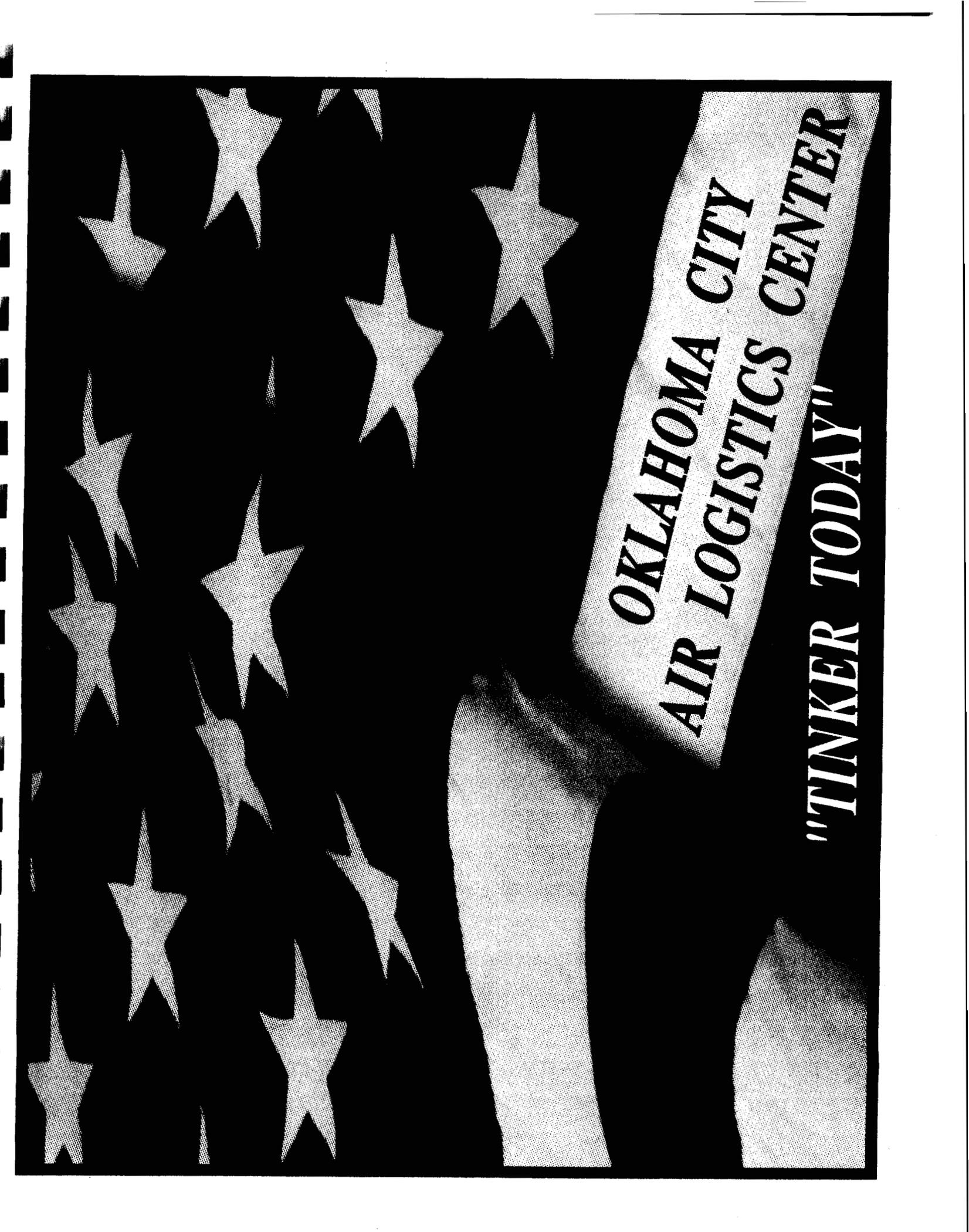
* ELECTED OFFICIALS WILL BE ATTENDING BRIEFING IN CC CONF RM BEGINNING
 AT 1540

ELECTED OFFICIAL STAFF MEMBERS ATTENDING BRIEFING IN CC CONF RM

- Mr Dennis Deutsch - Gov Keating
- Mr Steve Moffitt - Sen Nickles
- Mr Mark Nichols - Sen Nickles
- Mr Herb Johnson - Sen Inhofe
- Mr Ragan Gentry - Sen Inhofe
- Mr Jeff Cloud or Mike Hunter - Cong Watts
- Mr Rick Moore - Mayor Norick
- Col Jim Stevens - Traveling with legislators, SAF/LL
- Mr Allen Wright - Representing Cong Lucas
- Mr Rodney Sandburg - Representing Cong Istook

 CCX POC: Nancy Lemieux, 9-7338/email nlemieux; Gary Hoog, 97339, email ghoog
 During visit cellular phone: 627-0212
 Pager: Ext 1021/1022

M
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A black and white halftone image of the American flag, showing stars and stripes. A white banner is overlaid on the stripes.

**OKLAHOMA CITY
AIR LOGISTICS CENTER**

"TINKER TODAY"

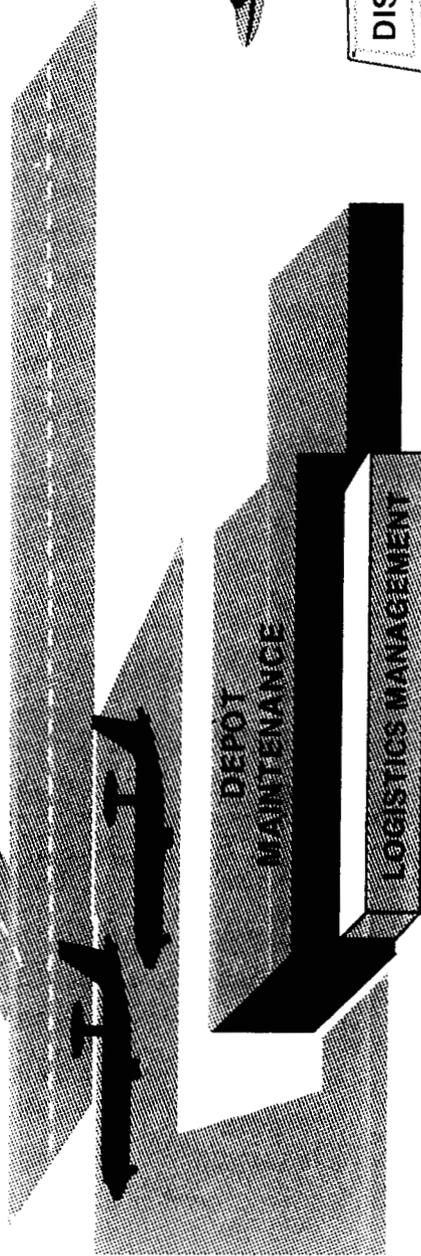
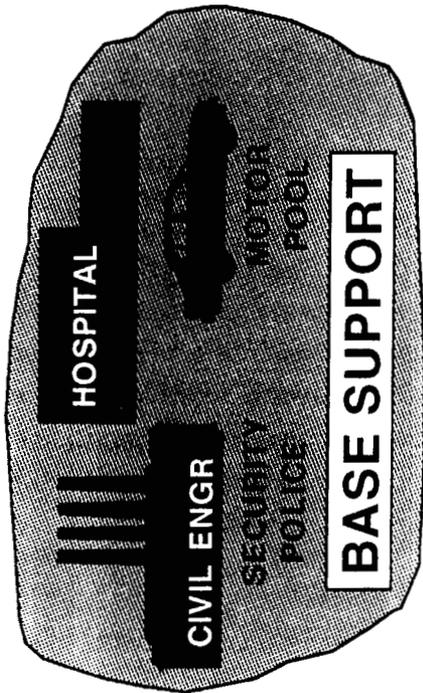
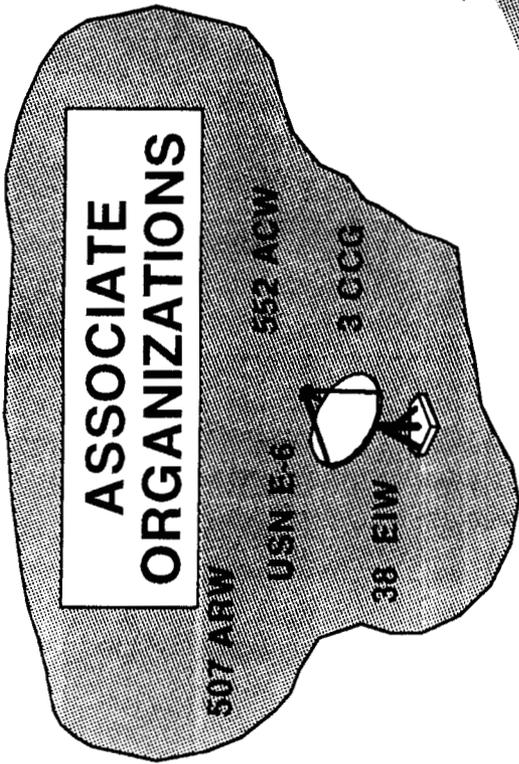


TODAY'S AGENDA



WHY KEEP TINKER/OC-ALC

- BASE OVERVIEW
- TOUR
 - ASSOCIATES
 - INDUSTRIAL
- WRAP-UP



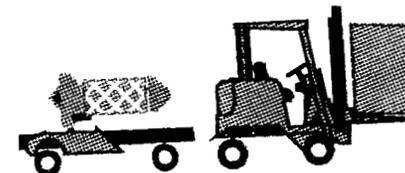
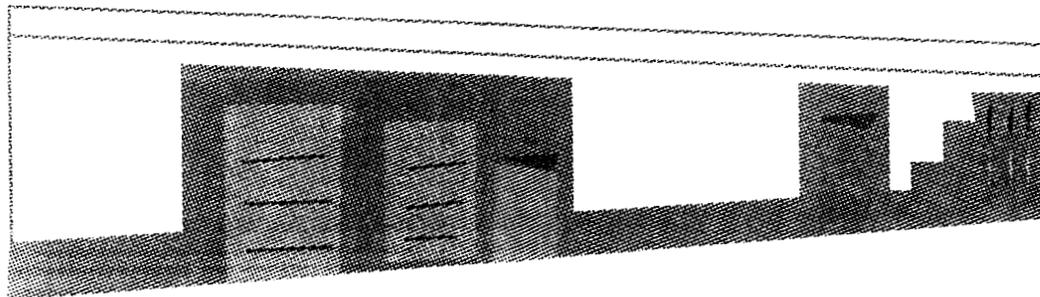
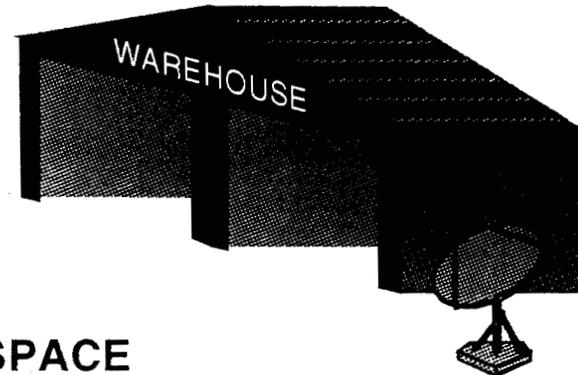
AIR LOGISTICS CENTER



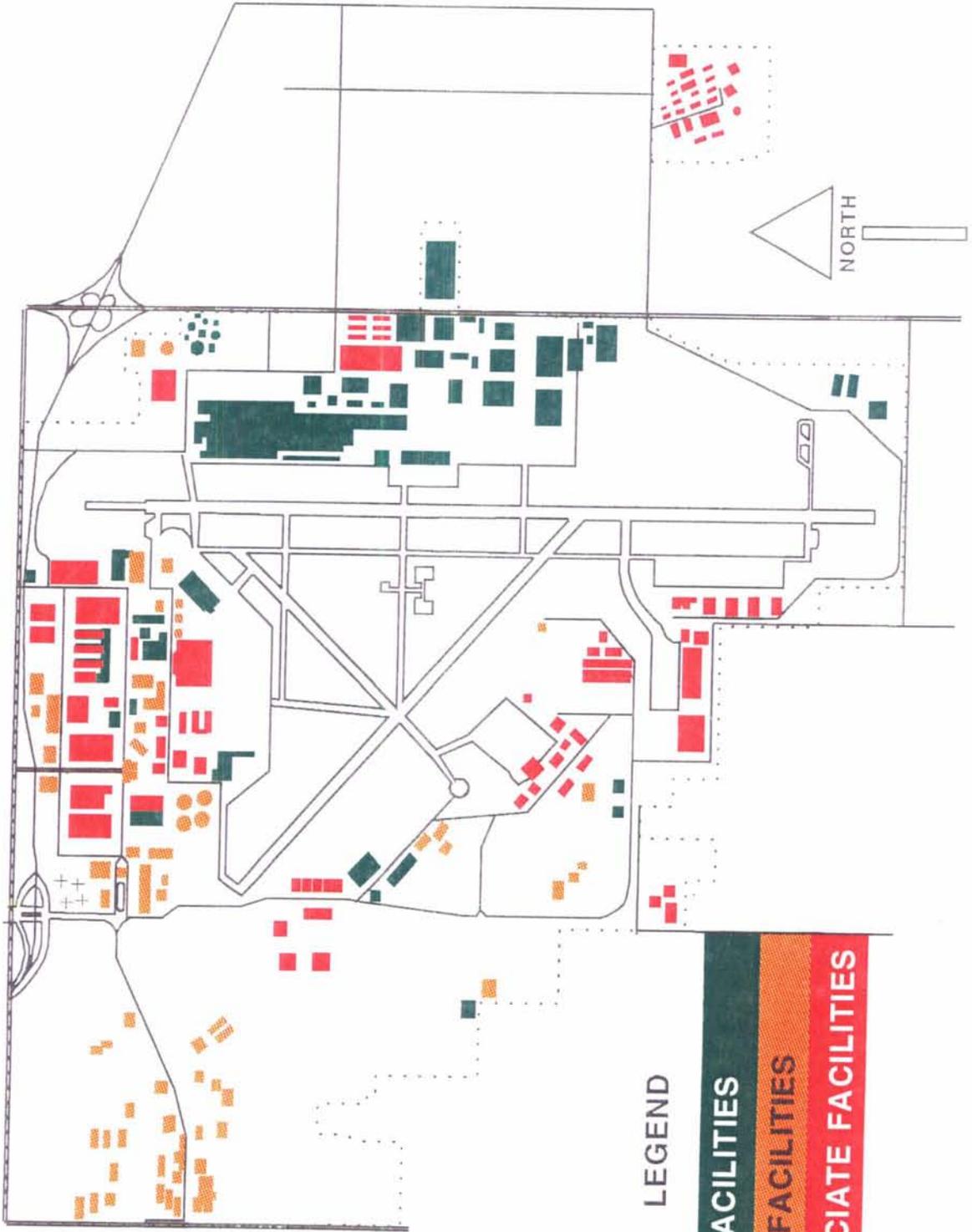
BASE INFRASTRUCTURE



- **TINKER AFB - STARTED IN 1941 AND NOW CONTAINS:**
 - **5,031 ACRES**
 - **764 BUILDINGS**
 - **15.3 MILLION SF OF FLOOR SPACE**
 - **TWO RUNWAYS (200 FT x 11,100 FT & 150 FT x 7,842 FT)**
 - **234 ACRES (10M SF) OF RAMP SPACE**
 - **133 ACRES (6M SF) OF INDOOR MAINTENANCE AREA**
 - **89 ACRES (4M SF) OF COVERED WAREHOUSE SPACE**



TINKER AFB



LEGEND

ALC FACILITIES

BASE FACILITIES

ASSOCIATE FACILITIES



TINKER WORK FORCE



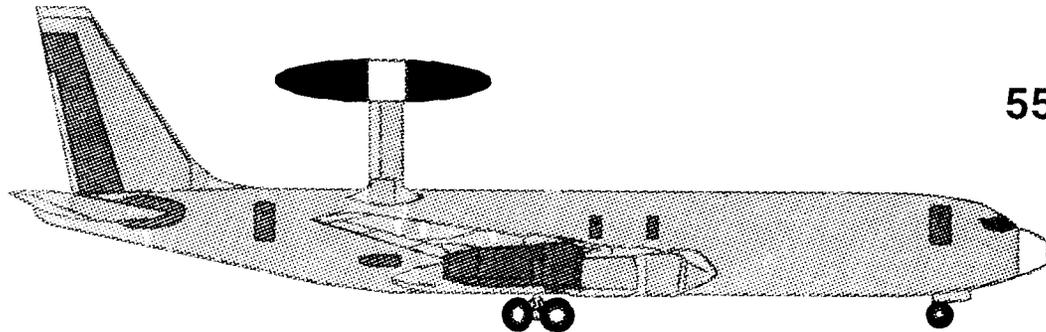
• FY95 MANPOWER AUTHORIZATIONS

	<u>OC-ALC</u>	<u>ASSOCIATES</u>	<u>TOTAL</u>
- MILITARY	1847	6903	8750
- CIVILIAN	10097	2454	12551
TOTALS	11944	9357	21301





STRATEGIC ONE-OF-A-KIND MISSIONS ASSOCIATES

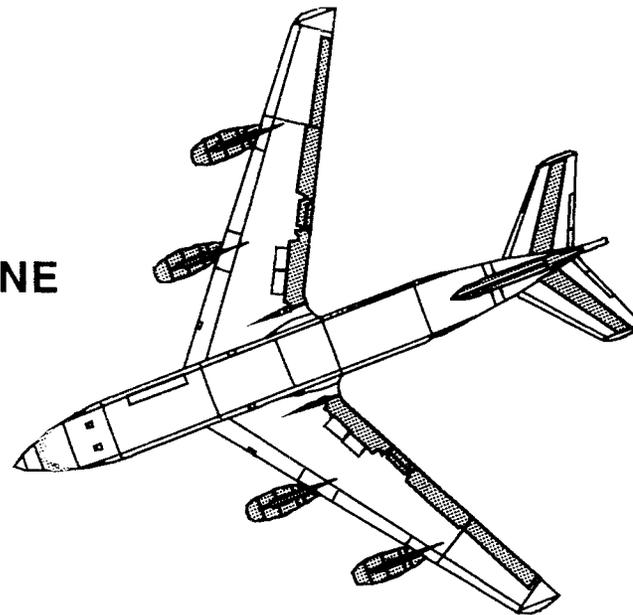


552 AIR CONTROL WING
(ACC)

CIV - 100
MIL - 3803

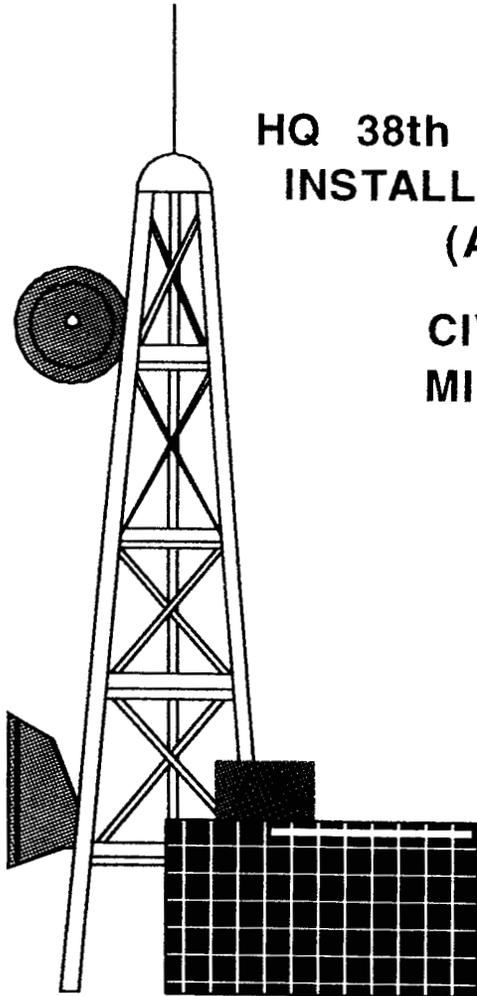
"TACAMO"
STRATCOMM WING ONE
(NAVY)

CIV - 34
MIL - 1058



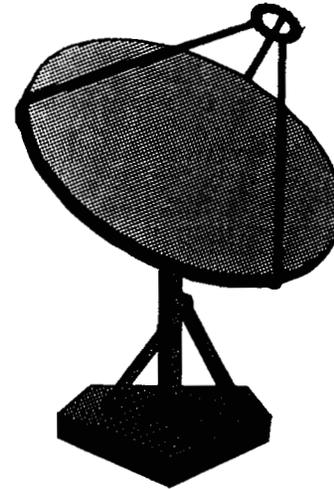


CRITICAL COMMUNICATIONS MISSIONS ASSOCIATES



HQ 38th ENGINEERING
INSTALLATION WING
(AFMC)

CIV - 631
MIL - 648

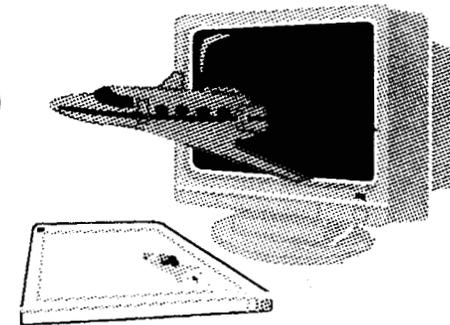


3rd COMBAT
COMMUNICATIONS
GROUP
(ACC)

CIV - 11
MIL - 1020

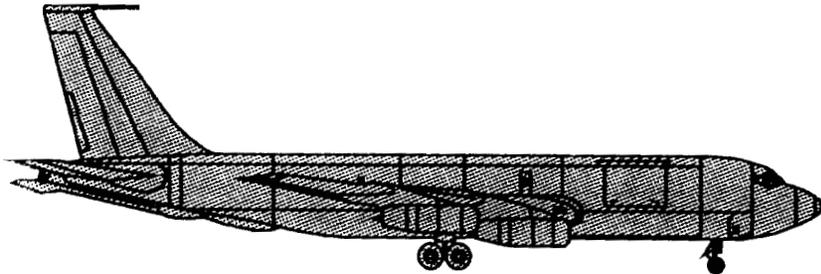
DEFENSE INFORMATION
SYSTEMS AGENCY (DISA)
OKC MEGACENTER

CIV - 220
MIL - 21





OTHER MAJOR ASSOCIATES



507th AIR REFUELING WING

CIV - 32

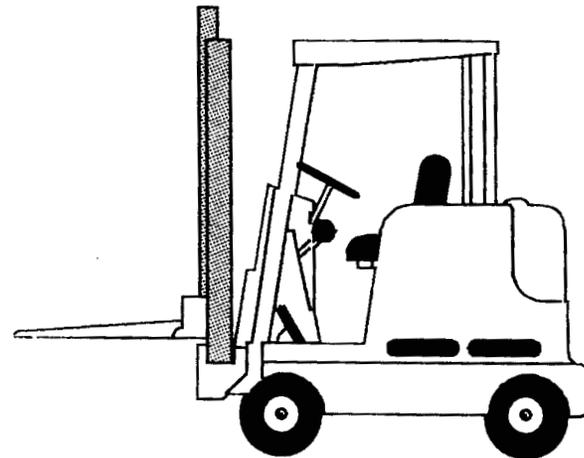
ARTs - 206

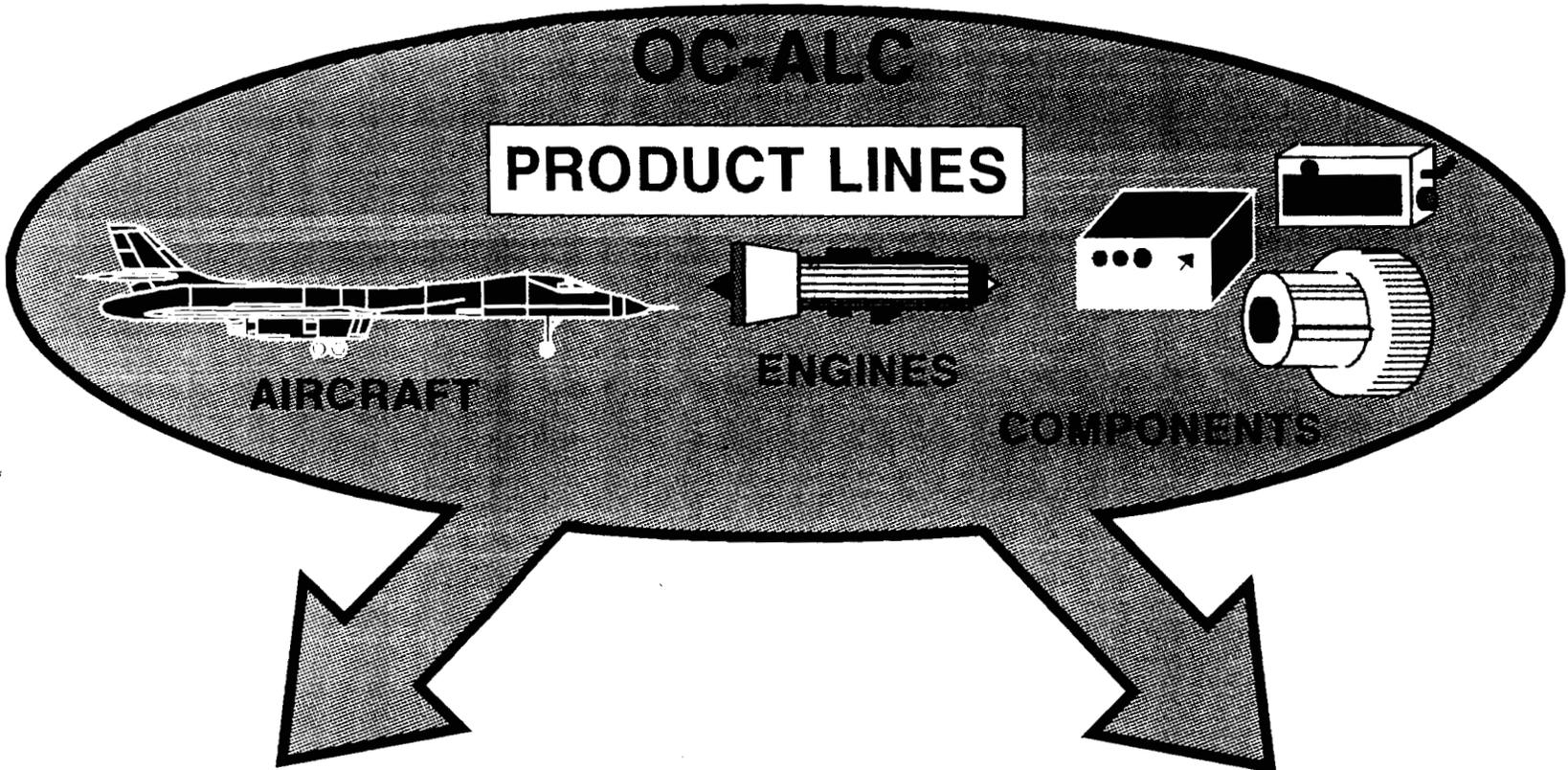
(ONLY AFRES IN OK - 925 RESERVISTS)

DEFENSE LOGISTICS AGENCY
(DLA)

CIV - 731

MIL - 1

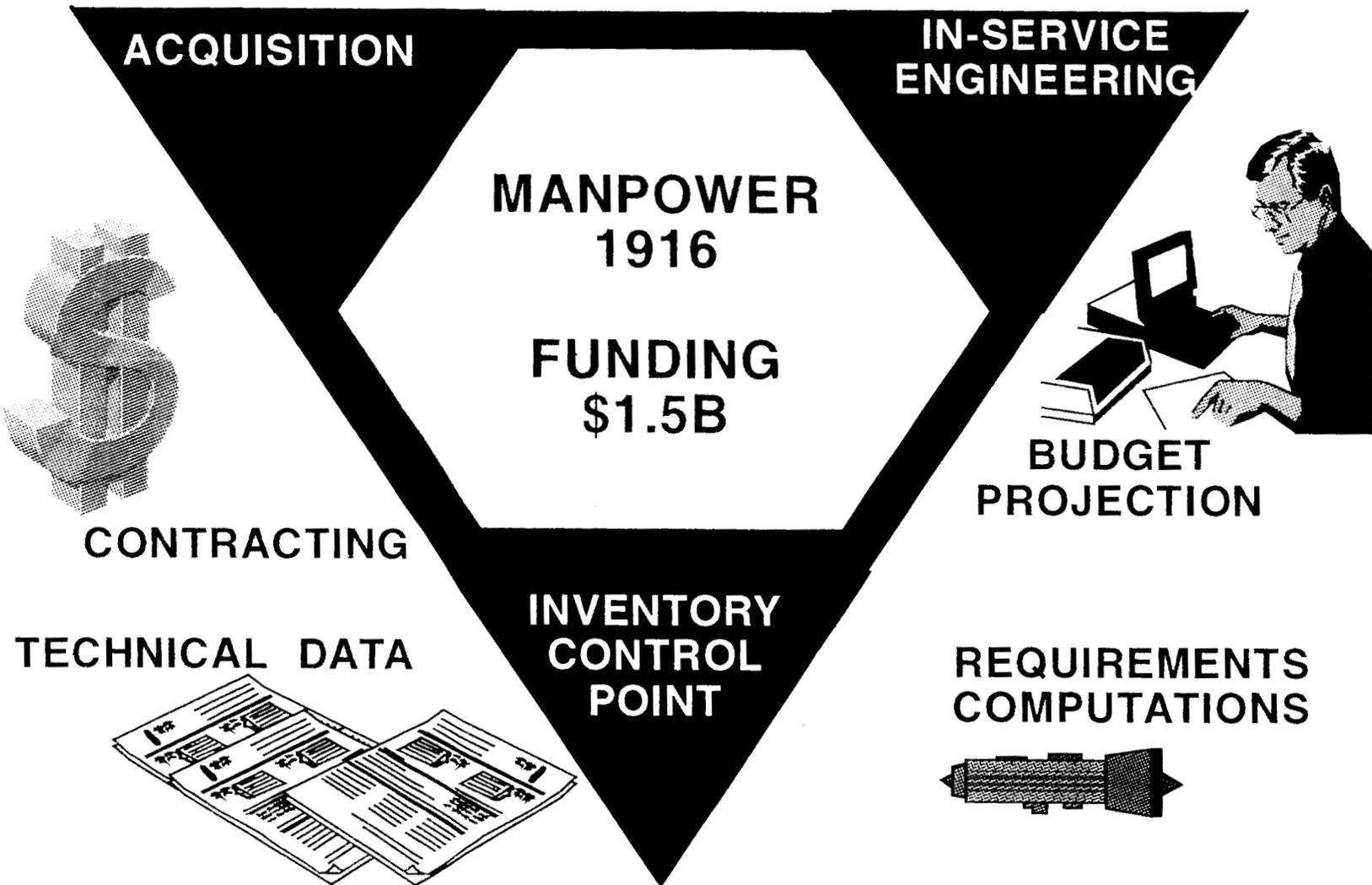




**WEAPON SYSTEM
MANAGEMENT**

**DEPOT
MAINTENANCE**

OC-ALC INTEGRATED WEAPON SYSTEM MANAGEMENT TRIAD





WORLDWIDE MANAGER



AIRCRAFT

B-1B, B-2, B-52, C-135, E-3.
CLS: VC-25, VC-137, E-4,
KC-10, AND 25 OTHER CLS
2,274 INV \$63.2B

ENGINES

F101, F108, F110, F118, TF30,
TF33, TF41, J33, J57, J75,
J79, T58, T64, F107, F112
18,678 INV \$13.5B

MISSILES

ALCM, SRAM, AF
HARPOON, ACM
3,300 INV \$27.0B

COMPONENTS

HYDRAULICS AND PNEUMATICS
ENGINE ACCESSORIES
FLIGHT AND ENGINE INSTRUMENTS
NAVIGATION AND AUTOPILOT
OXYGEN AND LIFE SUPPORT COMPONENTS
57,112 INV \$7.1B



DEPOT MAINTENANCE INFRASTRUCTURE



- BUILDING VALUE \$1.3B
- QUANTITY 55
- SQUARE FEET 5.5M



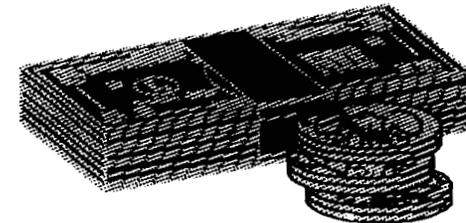
- SKILLS 121



- EQUIPMENT
- VALUE \$905M

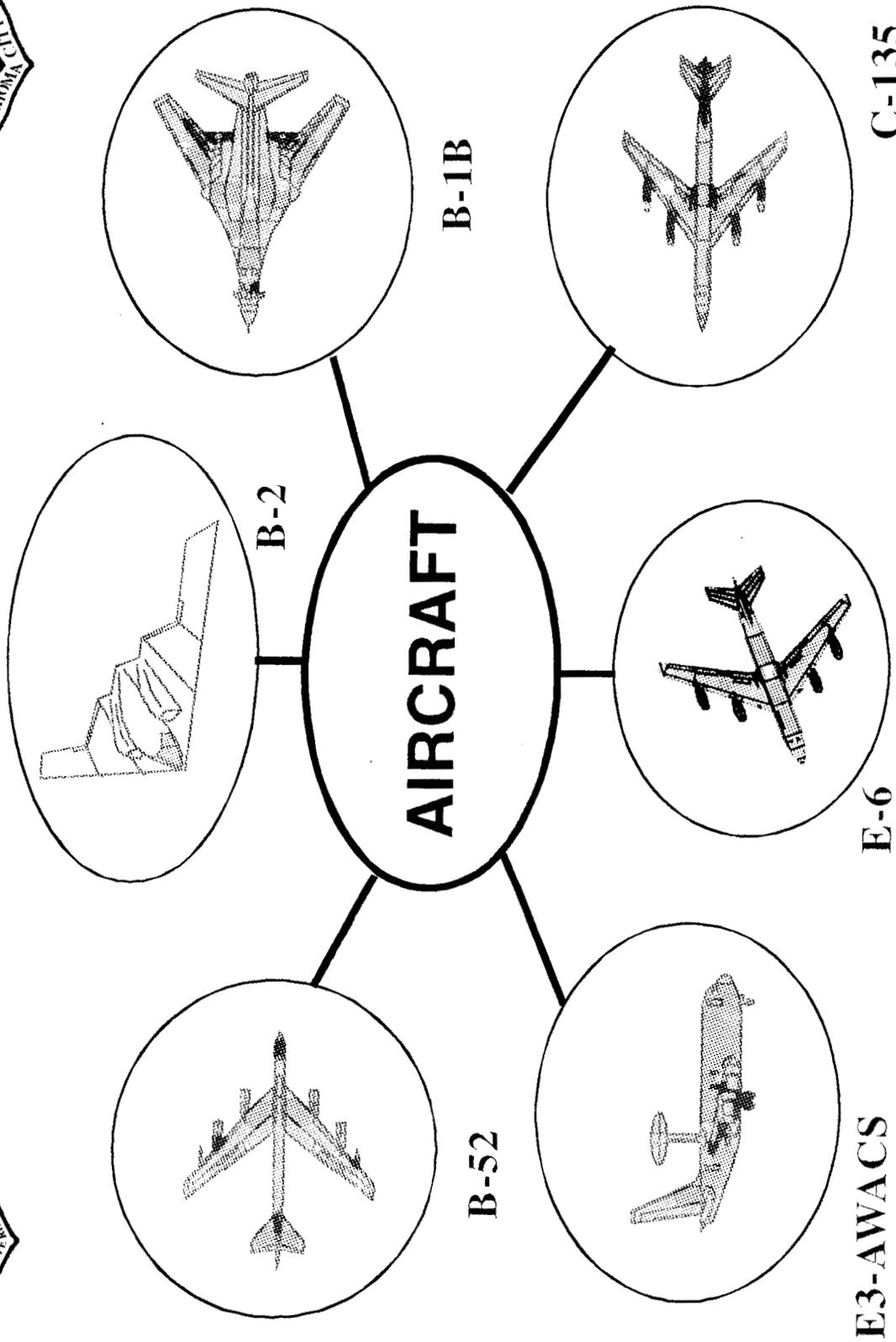


- BUDGET \$873M





DEPOT MAINTENANCE ASSIGNMENTS



E3-AWACS

B-52

B-2

B-1B

E-6

C-135



DEPOT MAINTENANCE ASSIGNMENTS



J57
B-52
-135

INTERSERVICE 13.9%

F108
KC-135R

ENGINES

CFM56
E-6 (NAVY)

TF30
F-111
F-14 (NAVY)

F118
B-2

F101
B-1B

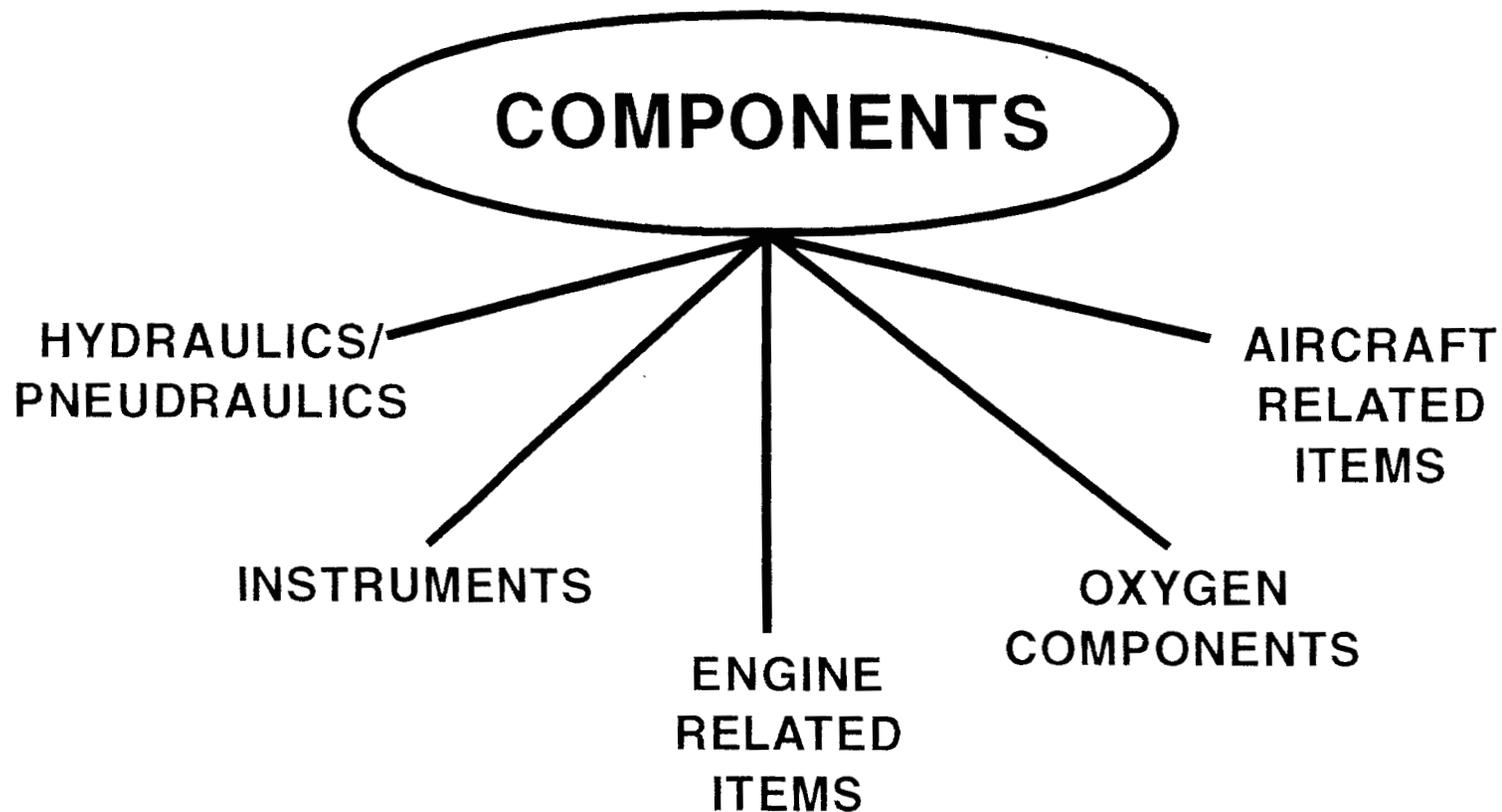
F110
F-16
F-14 (NAVY)

TF33
C-141
C-18
B-52
-135
E-3

F107/112
(MISSILES)
ALCM/ACM

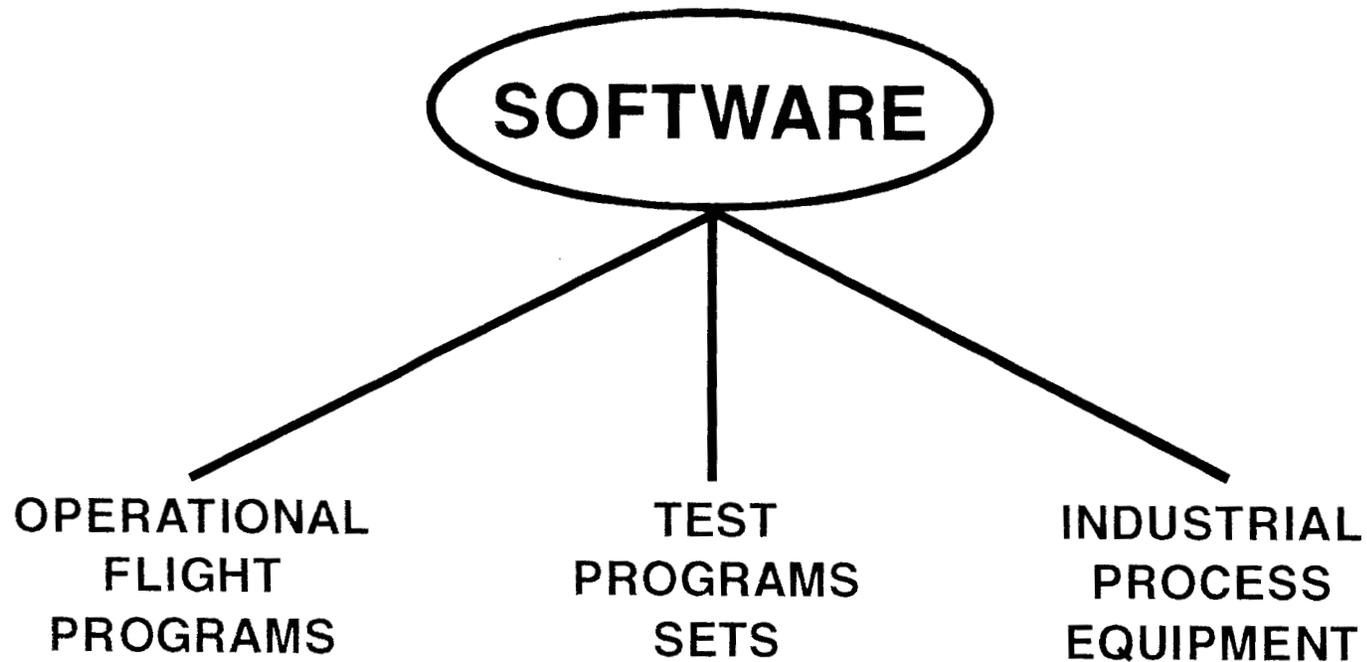


DEPOT MAINTENANCE ASSIGNMENTS





DEPOT MAINTENANCE ASSIGNMENTS



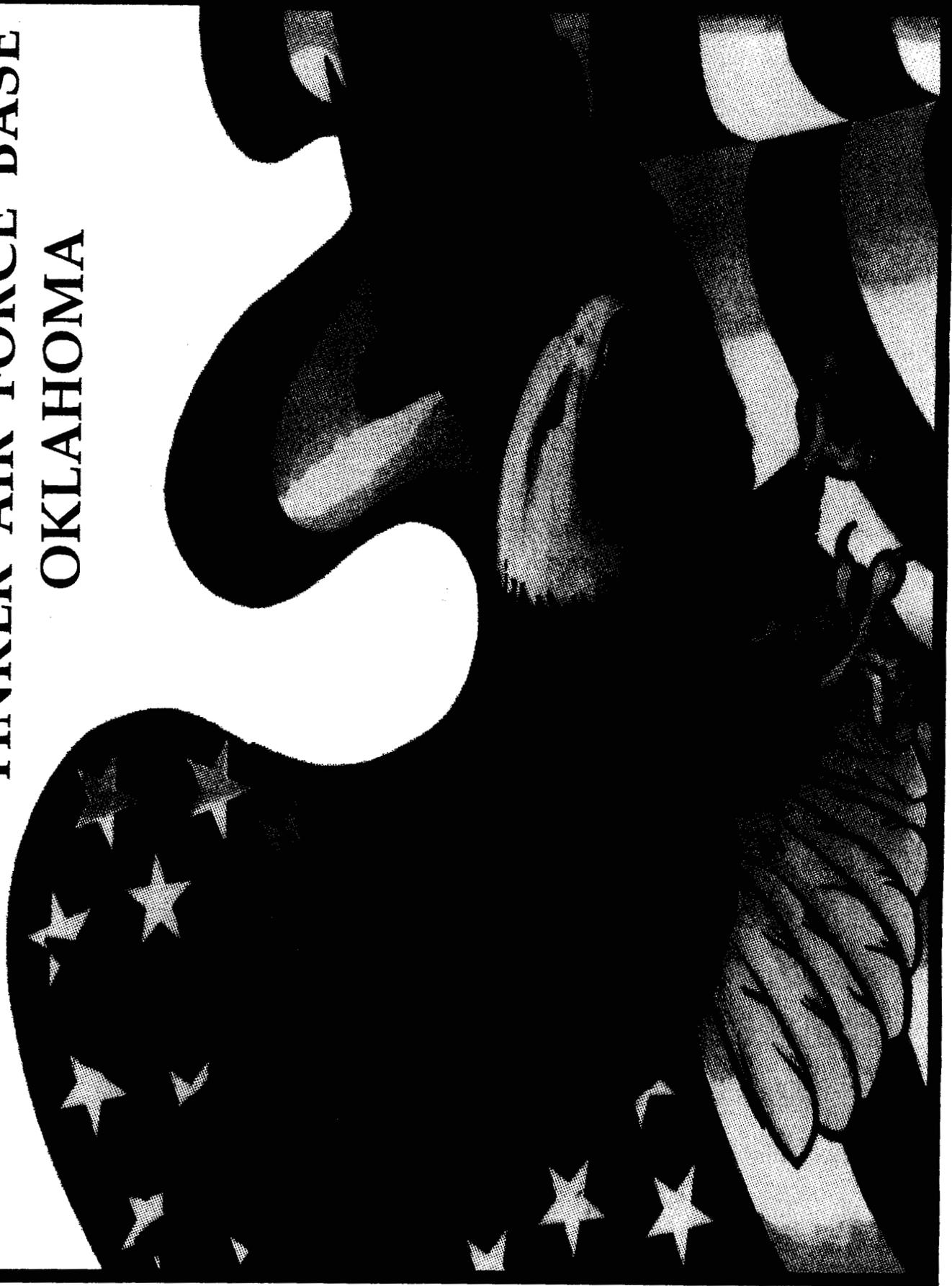


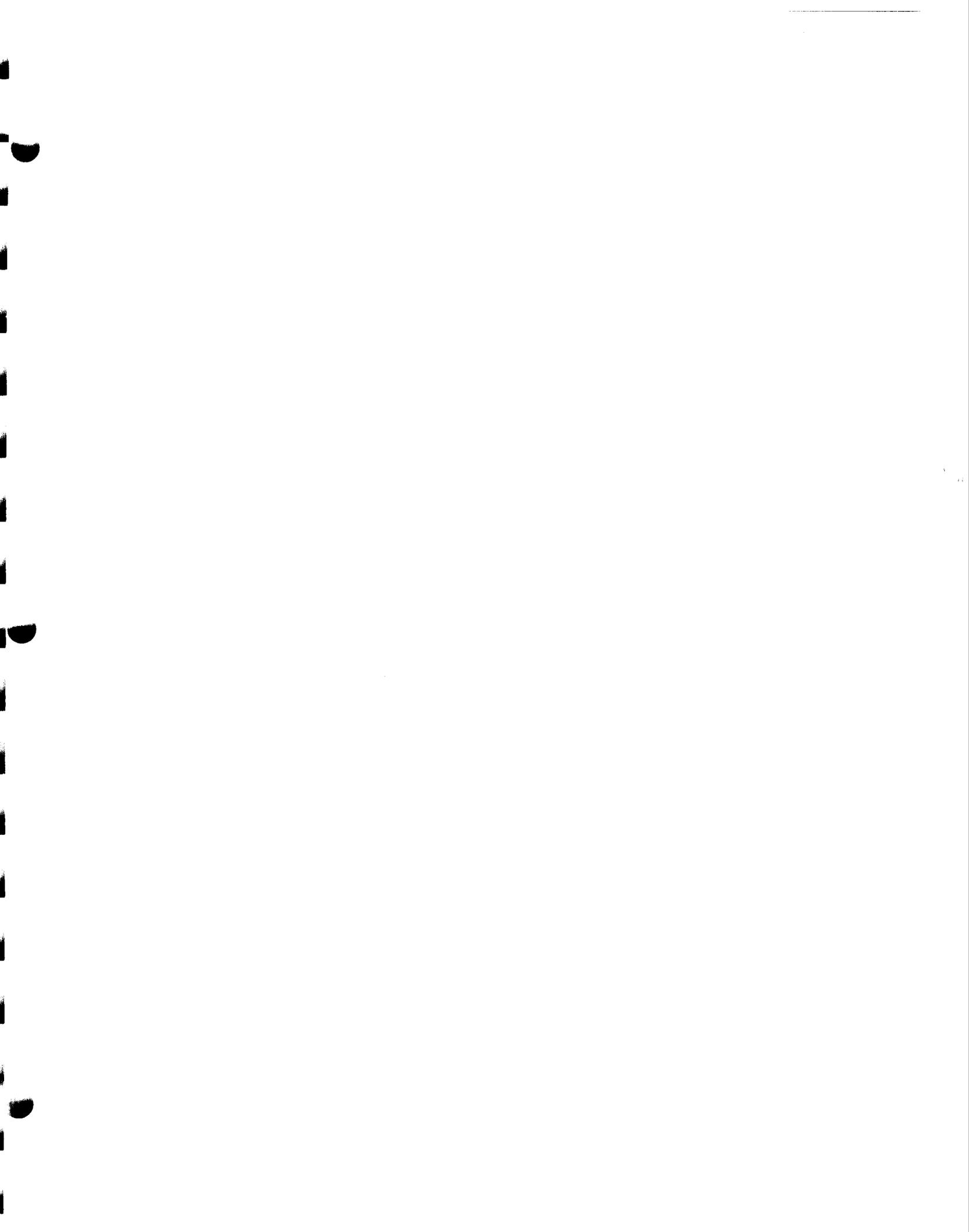
CONCLUSION



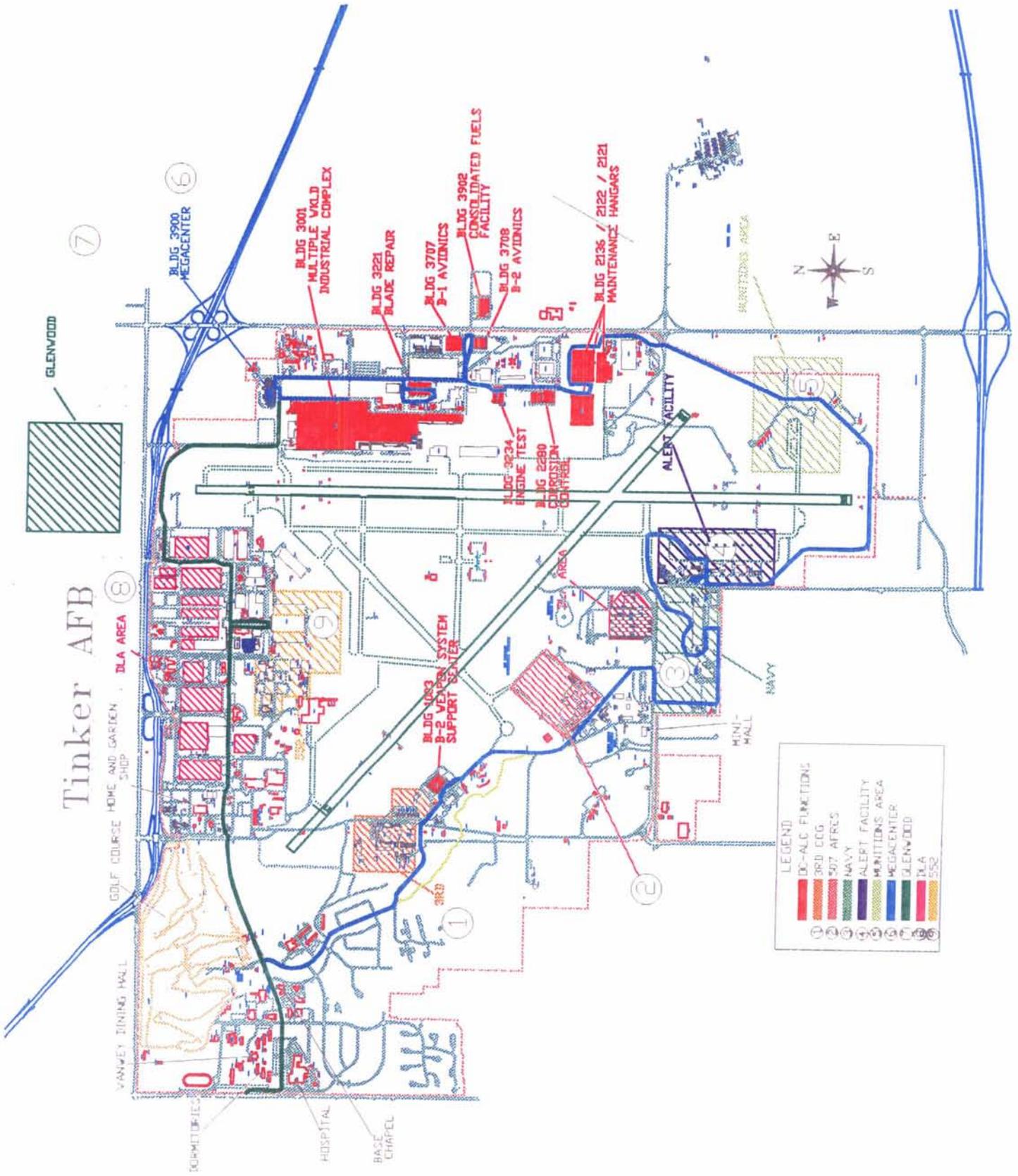
- **MULTI-MISSION/MULTI-FACETED BASE**
 - **DoD/SERVICE ORIENTED**
 - **3 AGENCIES/2 SERVICES/1 DEPOT**
- **CRITICAL WEAPON SYSTEM MANAGEMENT**
- **DIVERSIFIED STATE-OR-THE ART INDUSTRIAL COMPLEX**
- **INTERSERVICE PACESETTER**
- **ENVIRONMENTAL LEADER**
- **VESTED COMMUNITY SUPPORT**
- **STRONG FOUNDATION TO MEET FUTURE CHALLENGES**

TINKER AIR FORCE BASE
OKLAHOMA





Tinker AFB



TOUR ROUTE

ENROUTE AREAS AND BUILDINGS **TAB 1**

- BASE CHAPEL COMPLEX
- MILITARY FAMILY HOUSING
- URBAN GREENWAY
- 3 CCG FACILITIES
- B-2 WEAPON SYSTEM SUPPORT CENTER, BLDG, 1083
- 507TH AIR REFUELING WING
- AAFES MINI-MALL, BLDG 1107

ENROUTE AREAS AND BUILDINGS **TAB 2**

- U.S. NAVY FACILITIES
- WING HEADQUARTERS, BLDG 830

ALERT FACILITY, BLDG 989 **TAB 3**

ENROUTE BUILDINGS **TAB 4**

- B-1 HANGAR, BLDG 2122
- E-3 HANGAR, BLDG 2136
- B-52 HANGAR, BLDG 2121
- CORROSION CONTROL FACILITY, BLDG 2280

ENGINE TEST FACILITY, BLDG 3234 **TAB 5**

TOUR ROUTE (CON'T)

ENROUTE BUILDINGS TAB 6

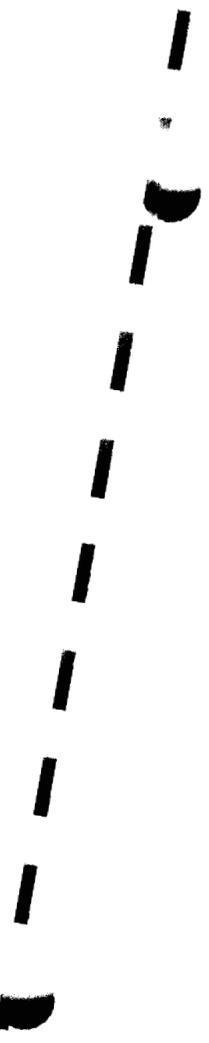
- B-1 AVIONICS FACILITY, BLDG 3707
- CONSOLIDATED FUELS FACILITY, BLDG 3902
- B-2 AVIONICS FACILITY, BLDG 3708

BLADE REPAIR FACILITY, BLDG 3221 TAB 7

DEFENSE MEGACENTER, BLDG 3900 TAB 8

INDUSTRIAL SHOPS AREA, BLDG 3001 TAB 9

- GE ENGINE LINE
- NUMERICAL CONTROL
- CARBON DIOXIDE BLASTING
- TF33 TWO LEVEL MAINTENANCE
- INVENTORY TRACKING
- EDDY CURRENT TEST
- SPRINGFIELD GRINDERS
- QUICK ENGINE CHANGE
- PLATING SHOP
- ENGINE MANIFOLD CLEANING
- - 135 LINE
- TF30 TWO LEVEL MAINTENANCE

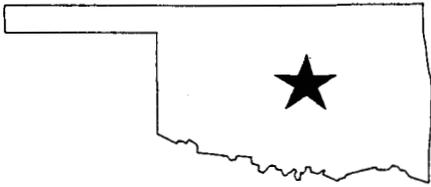


Cardinal.

TAB 1

ENROUTE AREAS AND BUILDINGS

- **BASE CHAPEL COMPLEX**
- **MILITARY FAMILY HOUSING**
- **URBAN GREENWAY**
- **3 CCG FACILITIES**
- **B-2 WEAPON SYSTEM SUPPORT CENTER, BLDG, 1083**
- **507TH AIR REFUELING WING**
- **AAFES MINI-MALL, BLDG 1107**



TINKER AIR FORCE BASE

FACILITY FACT SHEET

AREA: Base Chapel Complex

BUILDING # 5701 AND # 5715

BUILDING NAMES: Base Chapel and Religious Education

OWNER OF FACILITY: 72 ABW/HC

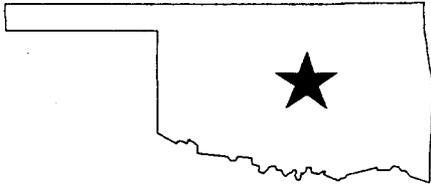
MISSION: The Base Chapel complex is the center of religious life and provides the opportunity for religious expression and moral growth to the ALC and 41 associate units located at Tinker Air Force Base. Services are provided for Protestant, Catholic, and Jewish members and their families. The chapel annex is a vital resource for teaching and has been used to support urgent operational requirements (such as the disaster response to the recent bombing of the Murrah Federal Building).

NUMBER OF PEOPLE: 14

DATE CONSTRUCTED: 1960 Chapel
1967 Religious Education

VALUE OF BUILDINGS: \$844,000

TOTAL SQUARE FEET: 21,920



TINKER AIR FORCE BASE

FACILITY FACT SHEET

AREA: Military Family Housing

PURPOSE: To provide adequate housing to military members and their families. The community donated over one square mile of land for family housing and military support functions.

NUMBER OF UNITS: Total of 730

264 Two Bedroom
321 Three Bedroom
145 Four-Bedroom

DATE CONSTRUCTED: 1959, 1970, 1971, 1984, 1985

OCCUPANCY: 108 Officers
622 Enlisted

PROJECTS: Completed exterior renovation and/or whole-house interior remodeling of 262 units mid 1994. Another phase of whole-house interior remodeling to begin in the fall of 1995.

TOTAL VALUE OF FACILITIES: \$51.6M



TINKER AIR FORCE BASE

FACILITY FACT SHEET

AREA: Urban Greenway

SIZE: 110 Acres (Includes woodlands, suburban fields, native prairie, and water developments)

DESCRIPTION: Tinker established an urban greenway in 1991 within its heavily militarized landscape. This greenway is the first DoD certified Urban Wildlife Sanctuary. The system optimizes the protection, development, management, and utilization of urban natural resources. A 1.5 mile jogging trail connects core areas of the greenway. A marsh area and three ponds were constructed for the area along with two floating fishing docks.

PROGRAM EFFECTIVENESS: The greenway has hosted a number of fun runs, military group exercises, and nature walks while at the same time protected nesting sites for raptors and habitat for the Texas horned lizard, a candidate threatened/endangered species. Despite the intensity of human activity in and around the greenway, balance is being achieved as can be seen by the occurrence of new species. In 1994 the first documented cases of on-base wintering gadwall and nesting Canadian geese and blue-winged teal were recorded. All occurred within the greenway where habitat improvements had been made. This coexistence of man and nature is the aim of Tinker's greenway development and testifies to its success.

AWARDS: Numerous environmental stewardship awards as follows:

- 1992 Air Force General Thomas D. White Natural Resource Conservation Award

Honorable Mention at Secretary of Defense Award

URBAN GREENWAY (CONT'D)

- *1993 Outstanding Conservation Award*
- *1994 Dan J. Macer Environmental Award for Beautification*

Renew America Selection for Environmental Success Index



TINKER AIR FORCE BASE

FACILITY FACT SHEET

AREA: 3d Combat Communications Group (3 CCG)

MISSION: The 3 CCG provides deployable communications, computer systems, navigational aids, and air traffic control services anywhere in the world in support of Air Force, Department of Defense, and other U.S. commitments. The 3 CCG's elements are self-sustaining during the initial phase of the expeditionary mission until relieved by follow-on forces and supplies.

Because of its special ability to provide service quickly, the 3 CCG also provides emergency support to many federal agencies. This support ranges from providing equipment to assist the Drug Enforcement Agency and U.S. Coast Guard in drug interdiction to restoring communications capabilities lost during natural disasters.

NUMBER OF BUILDINGS: 34

TOTAL SQUARE FEET: 195,000

VALUE OF BUILDINGS: \$12.7M

NUMBER OF PEOPLE: 925

MISSION START DATE AT TINKER AFB: 1952



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 1083

BUILDING NAME: B-2 Weapon System Support Center (WSSC)

DATE CONSTRUCTED: 1993

VALUE OF BUILDING: \$12.0M

VALUE OF EQUIPMENT: \$7.2M FY95
\$750M FY96-FY00

MISSION START DATE: 1993

TOTAL SQUARE FEET (SF): 124,000

PRODUCTION SF: 0

ADMIN SF: 114,130

OTHER SF: 9,870

BUILDING # 1083 (CONT'D)

TYPE WORKLOAD: B-2 Contracting
B-2 System Program Office (SPO)
B-2 Provisioning
Operational Flight Program (OFP)
Software Engineering Support
Automatic Test Equipment (ATE)
Acceptance of Test Program Sets (TPS) for
Intermediate Level test programs for SPO

MANHOURS PER YEAR: 56,000

PERSONNEL (# PEs): 186 (26 Direct Labor)

WORKLOAD DIRECTION: Increasing contractor workload FY97
with follow-on organic

FUTURE PLANS AFFECTING BUILDING: Additional contractor and
organic software personnel will be housed in facility as B-2 workload
increases



TINKER AIR FORCE BASE

FACILITY FACT SHEET

AREA: 507th Air Refueling Wing (507 ARW) Facilities

MISSION: The 507th Air Refueling Wing is prepared to support Air Mobility Command as needs dictate, including overseas deployment in time of war or national emergency. The 507th is the only Air Force Reserve flying unit in Oklahoma. The wing currently flies the KC-135R "Stratotanker" aircraft. The wing converted from F-16 to KC-135R aircraft in 1994.

NUMBER OF BUILDINGS: 24

TOTAL SQUARE FEET: 234,000

VALUE OF BUILDINGS: \$24.74M

NUMBER OF RESERVISTS: 1,200

MISSION START DATE AT TINKER AFB:

1994	(507th Air Refueling Wing)
1972	(507th Tactical Fighter Group)
1963	(937th Troop Carrier Squadron)
1961	(305th Troop Carrier Squadron)



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 1107

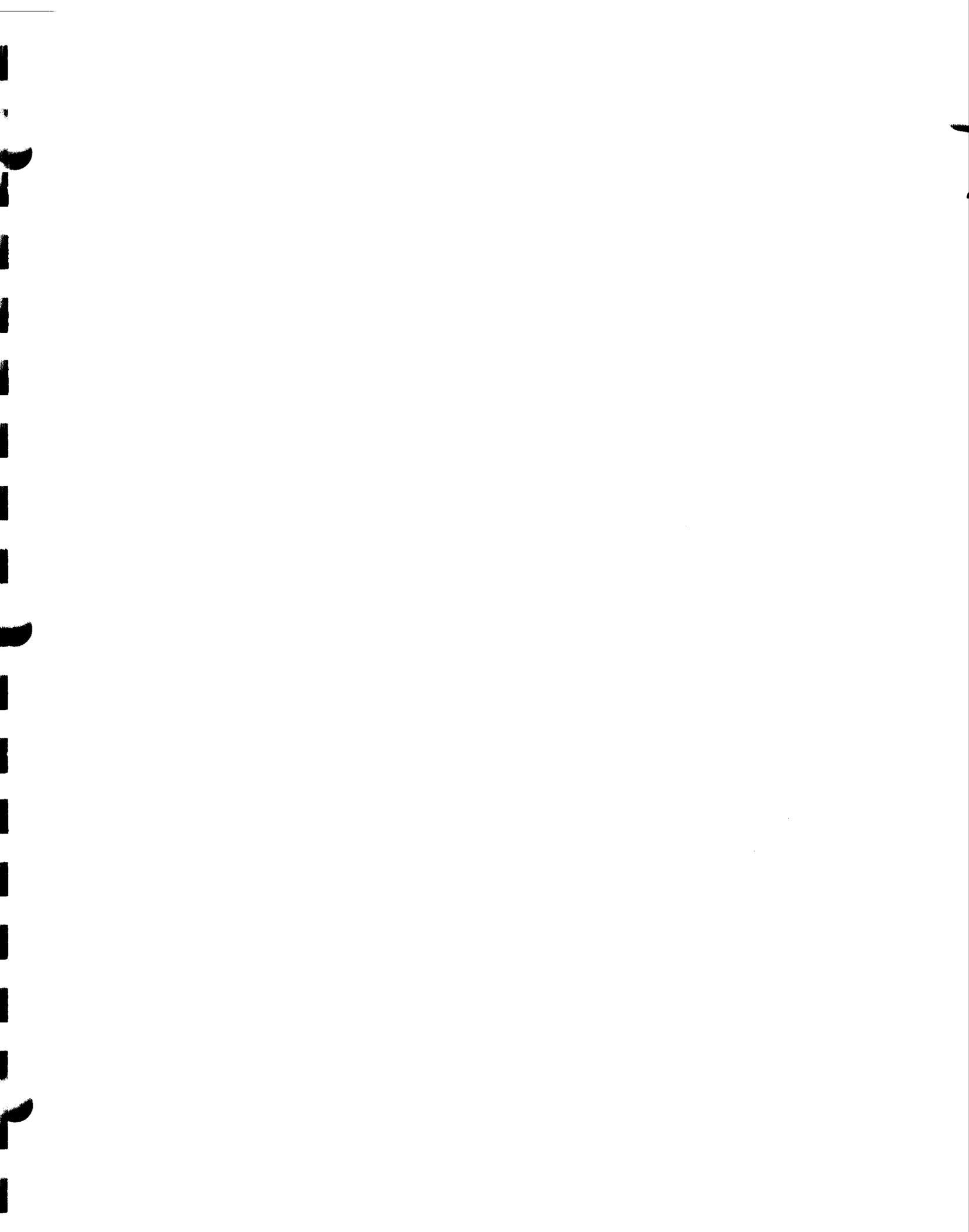
BUILDING NAME: AAFES Mini-Mall (Under Construction)

MISSION: A new mini-mall on the southwest side of the base will provide full service to active duty reserve and transient personnel. This facility includes a mini-mall, gas dispensing units, two food activities, hair care center, laundry/dry cleaning center, and automatic teller machine.

PROJECTED COMPLETION DATE: August 1995

VALUE OF BUILDING: \$2.6M

TOTAL SQUARE FEET: 14,400



TAB 2

ENROUTE AREAS AND BUILDINGS

- U.S. NAVY FACILITIES

- WING HEADQUARTERS. BLDG 830



TINKER AIR FORCE BASE

FACILITY FACT SHEET

AREA: U.S. Navy Facilities

MISSION: Strategic Communications Wing One (STRATCOMMWING ONE) maintains administrative and operational control over Atlantic and Pacific Navy TACAMO (Take Charge and Move Out) squadrons. The mission of the 16 Navy E-6A Mercury aircraft is to provide a reliable, survivable, and endurable communications link between the National Command Authority and strategic forces.

The decision to locate the Navy wing at Tinker was accomplished in concert with a review of benefits derived from collocation with the depot maintenance activity at OC-ALC and the 552 Air Control Wing (552 ACW). OC-ALC is the source of repair for the 552 ACW E-3 Sentry aircraft and the F108-GE-100 engine (KC-135) which have a high percentage of commonality to the E-6A airframe, engine, and numerous subsystems.

This collocation allows utilization of depot support already in place and allows the development of joint training programs for Navy and Air Force flight crews. The Navy also has access to our depot technical and engineering expertise.

NUMBER OF BUILDINGS: 10

TOTAL SQUARE FEET: 399,600

VALUE OF BUILDINGS: \$42.4M
\$37.6M
\$80.0M

(On-site facilities)

(Other supporting facilities)

U.S. NAVY FACILITIES (CONT'D)

***NUMBER OF PEOPLE: 1,168 Total (1,150 military, 18 civilians) and 97
Boeing contractor personnel***

MISSION START DATE AT TINKER AFB: May 1992



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 830

BUILDING NAME: Wing Headquarters

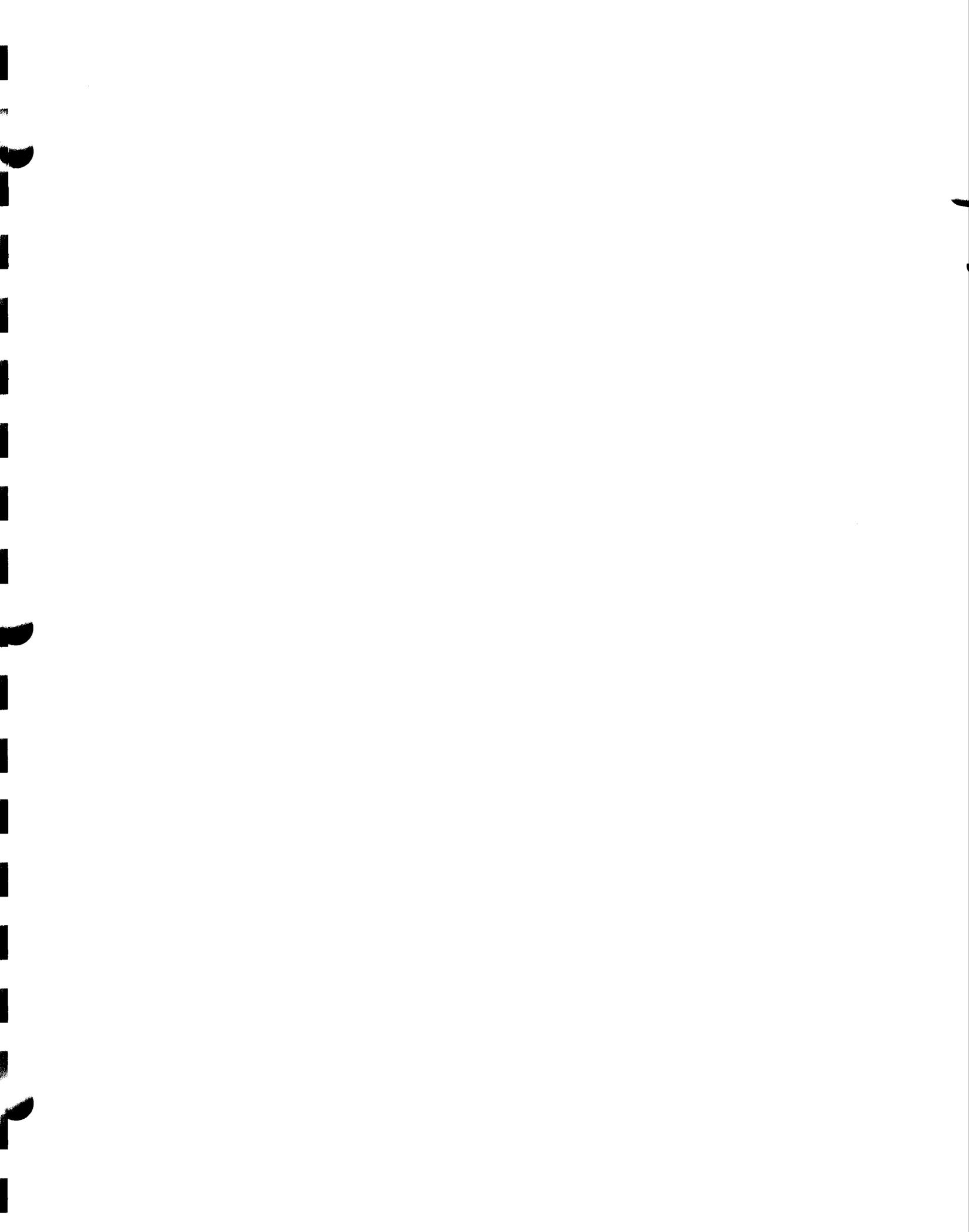
MISSION: Wing Headquarters serves both administrative and training needs for the Navy. The STRATCOMMWING ONE Commodore and staff provide support for two Navy E-6 Mercury flying squadrons. The Personnel Support Detachment (PSD) provides all naval members in the Oklahoma City area with a full array of personnel and financial services. Training for both aircrews and maintenance personnel is provided in state-of-the-art facilities located on the first floor.

DATE CONSTRUCTED: May 92

VALUE OF BUILDING: \$10.4M

MISSION START DATE: May 92

TOTAL SQUARE FEET: 97,511



TAB 3

BLDG 989

- ALERT FACILITY



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 989

BUILDING NAME: Alert Facility

MISSION: The Alert Facility provides a home away from home for combat-ready aircrews on alert. Fully self-sufficient, the facility provides living, dining, and sleeping accommodations to alert crews. The 552 ACW and the Navy both benefit from the shared alert facility which has a state-of-the-art security system.

DATE CONSTRUCTED: 1983

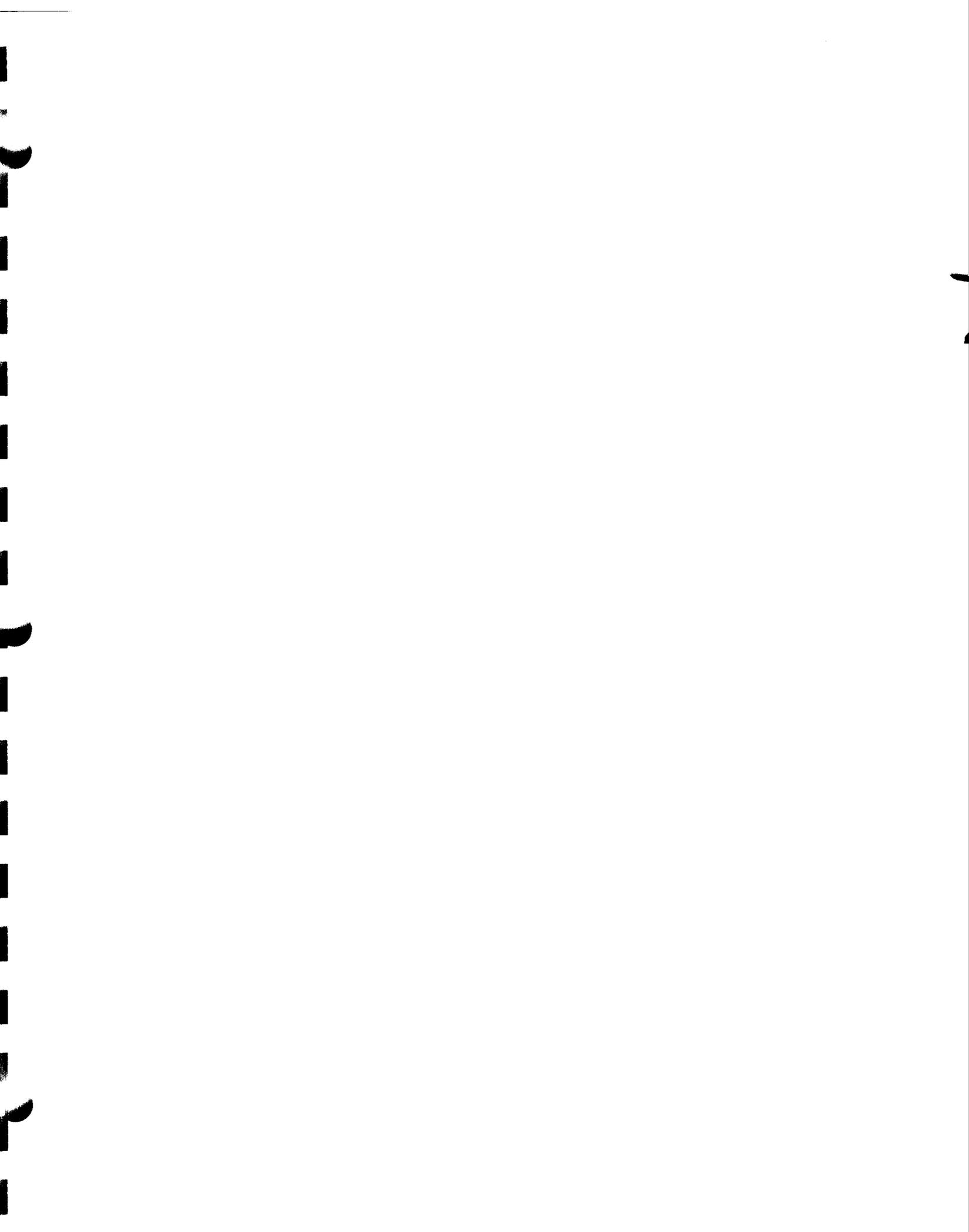
VALUE OF BUILDING: \$8.9M

TOTAL SQUARE FEET: 73,500

NUMBER OF PEOPLE: 160 (Building Capacity)

Note - Total number of 552 ACW personnel is 3,902

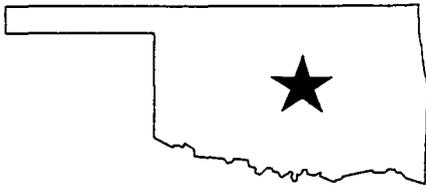
MISSION START DATE AT TINKER AFB: 1983 - Air Force
1992 - Navy



TAB 4

ENROUTE BUILDINGS

- B-1 HANGAR, BLDG 2122
- E-3 HANGAR, BLDG 2136
- B-52 HANGAR, BLDG 2121
- CORROSION CONTROL FACILITY, BLDG 2280



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 2122

BUILDING NAME: B-1 Maintenance Hangar

DATE CONSTRUCTED: 1943

VALUE OF BUILDING: \$113.4M

VALUE OF EQUIPMENT: TOTAL \$14.1M (B-1 - \$12.4M)

MISSION START DATE: 1989

TOTAL SQUARE FEET (SF): 126,259 (B-1) 316,500 (ALL)

PRODUCTION SF: 96,000 249,039

ADMIN SF: 7,172 7,172

OTHER SF: 23,087 60,289

BUILDING # 2122 (CONT'D)

TYPE WORKLOAD: B-1 Depot Maintenance

MANHOURS PER YEAR: 435,425

PERSONNEL (# PEs): 335

WORKLOAD DIRECTION: Stable - Global Positioning System mod starts in FY98

FUTURE PLANS AFFECTING BUILDING: Continue to use for B-1 Depot Maintenance



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 2136

BUILDING NAME: E-3 Maintenance Hangar

DATE CONSTRUCTED: 1990

VALUE OF BUILDING: \$15.0M

VALUE OF EQUIPMENT: \$3.9M

MISSION START DATE: 1990

TOTAL SQUARE FEET (SF): 143,376

PRODUCTION SF: 107,387

ADMIN SF: 8,393

OTHER SF: 27,596

BUILDING # 2136 (CONT'D)

TYPE WORKLOAD: E-3 Depot Maintenance

MANHOURS PER YEAR: 264,135

PERSONNEL (# PEs): 191

WORKLOAD DIRECTION: Stable - increase in FY97 for Block 30/35 modification

FUTURE PLANS AFFECTING BUILDING: Continue to use for E-3 depot maintenance



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 2121

BUILDING NAME: B-52 Maintenance Hangar

DATE CONSTRUCTED: 1943

VALUE OF BUILDING: \$55.2M

VALUE OF EQUIPMENT: TOTAL \$4.3M (B-52 - \$3.9M)

MISSION START DATE: 1960

TOTAL SQUARE FEET (SF): 265,937 (B-52s) 312,000 (ALL)

PRODUCTION SF: 239,419 263,170

ADMIN SF: 16,081 18,561

OTHER SF: 10,437 30,269

BUILDING # 2121 (CONT'D)

TYPE WORKLOAD: B-52 Depot Maintenance

MANHOURS PER YEAR: 650,564

PERSONNEL (# PEs): 478

WORKLOAD DIRECTION: Decline - force structure reduction

FUTURE PLANS AFFECTING BUILDING: After B-52 reduction, dock space will be used for B-1/C/KC-135 aircraft maintenance.



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 2280

BUILDING NAME: Corrosion Control Facility

DATE CONSTRUCTED: 1979

VALUE OF BUILDING: \$9.4M

VALUE OF EQUIPMENT: \$426,000

MISSION START DATE: 1979

TOTAL SQUARE FEET (SF): 112,200

PRODUCTION SF: 83,382

ADMIN SF: 3,484

OTHER SF: 25,334

BUILDING # 2280 (CONT'D)

TYPE WORKLOAD: Aircraft Corrosion Control

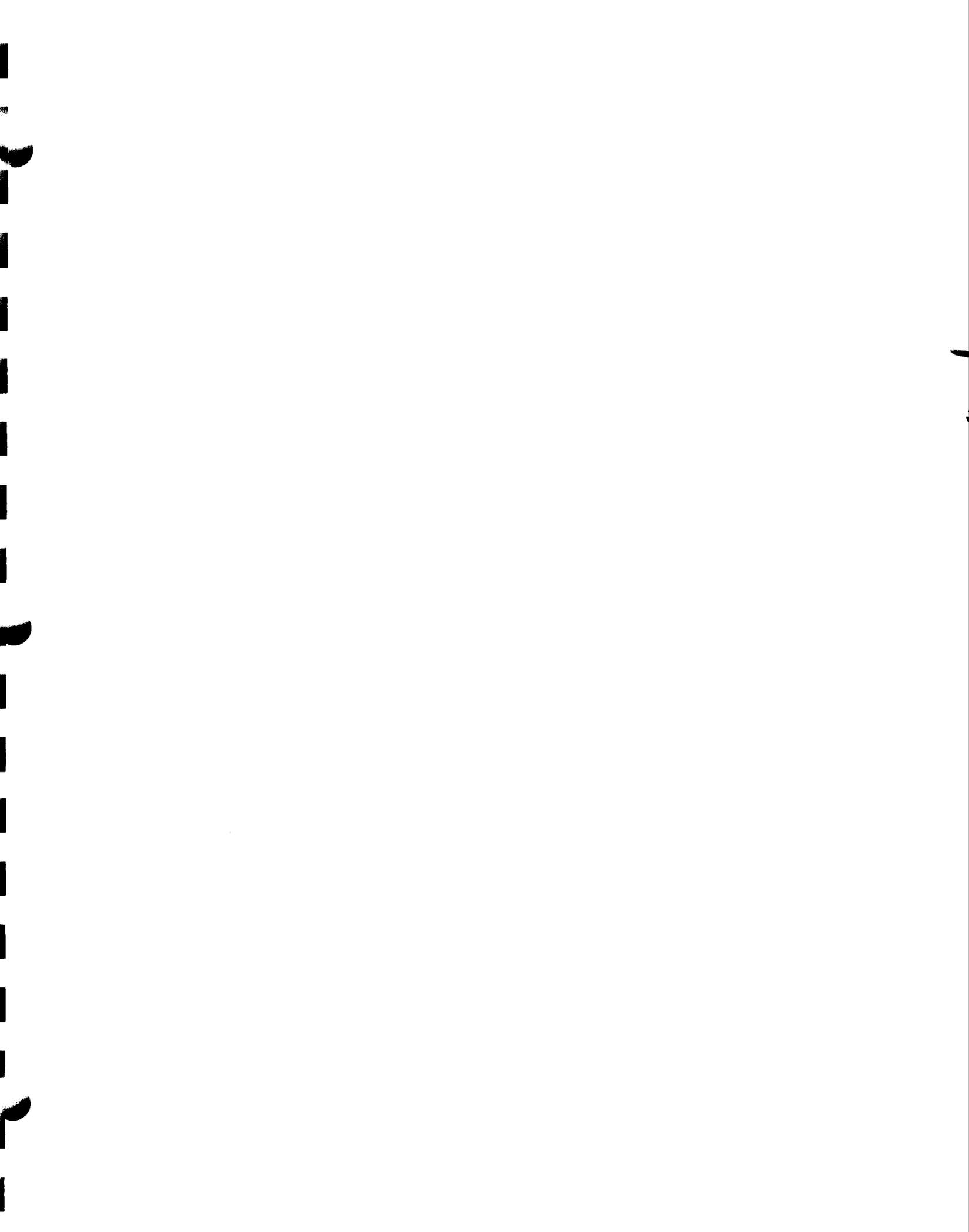
MANHOURS PER YEAR: 260,722

PERSONNEL (# PEs): 203

WORKLOAD DIRECTION: Increasing

FUTURE PLANS AFFECTING BUILDING: An \$8.4M Military Construction (MILCON) project will upgrade the Building #2280 ventilation system Jan 96 - Sep 97. The MILCON project converts the existing recirculating ventilation system to a one-pass system.

The facility will be at 50 percent capacity for the duration of the MILCON project. Workload will be accomplished in temporary on-base locations.



TAB 5

BLDG 3234

- ENGINE TEST FACILITY



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 3234

BUILDING NAME: Engine Test Facility

DATE CONSTRUCTED: 1974

VALUE OF BUILDING: \$26.574M

VALUE OF EQUIPMENT: \$18.426M

MISSION START DATE: 1974

TOTAL SQUARE FEET (SF): 63,160

PRODUCTION SF: 47,405

ADMIN SF: 13,205

OTHER SF: 2,550

BUILDING # 3234 (CONT'D)

TYPE WORKLOAD: Testing overhauled engines to ensure overhaul and two-level engines meet or exceed technical data compliance

MANHOURS PER YEAR: 53,952

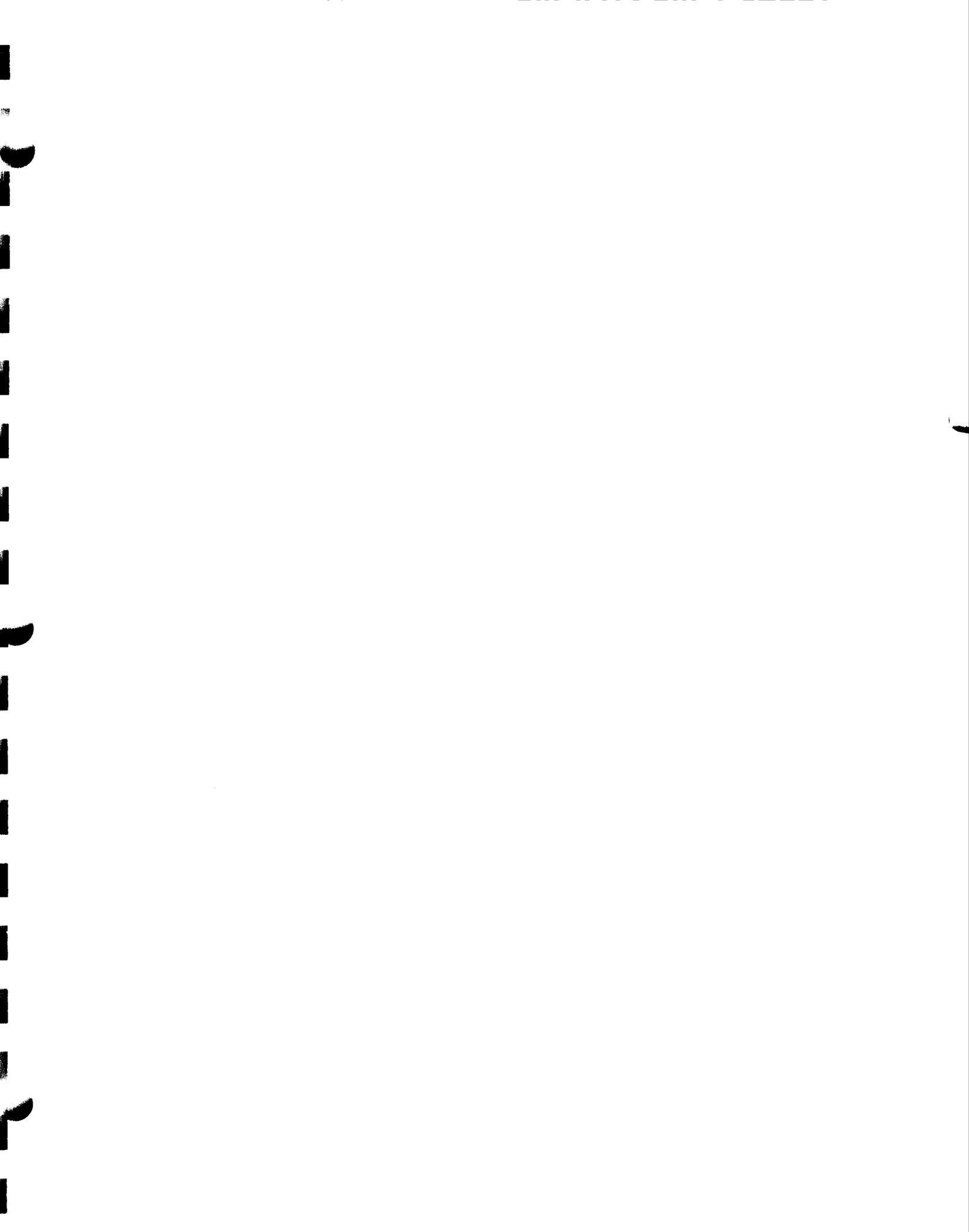
PERSONNEL (# PEs): 47

WORKLOAD DIRECTION: Increasing (two-level engines)

FUTURE PLANS AFFECTING BUILDING: No change

ADDITIONAL INFORMATION:

- *OC-ALC engines test capabilities include:*
 - *Eight test cells rated at 0-50,000 pounds thrust: Airflow in excess of 400 pounds per second (Bldg 3703)*
 - *Four test cells rated 0-100,000 pounds thrust: Airflow in excess of 4,000 pounds per second (Bldg 3234)*
 - *State of the art closed loop computer-controlled systems which control the test processes. Special emphasis is placed upon computer-controlled testing which provides a standardized procedure. This assures each engine is tested using specific technical parameters*
- *Uniqueness/Special Military Value:*
 - *Test cells supported by an automated vibration diagnostic system*
 - *Ability to test 12 engines simultaneously*
 - *Capability of running accelerated mission testing and endurance testing*



TAB 6

ENROUTE BUILDINGS

- B-1 AVIONICS FACILITY. BLDG 3707

- CONSOLIDATED FUELS FACILITY. BLDG 3902

- B-2 AVIONICS FACILITY. BLDG 3708



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 3707

BUILDING NAME: B-1 Avionics Facility

DATE CONSTRUCTED: 1991

VALUE OF BUILDING : \$9.2M

VALUE OF EQUIPMENT: \$35.5M

MISSION START DATE: 1991

TOTAL SQUARE FEET (SF): 85,533

PRODUCTION SF: 31,400

ADMIN SF: 18,561

OTHER SF: 35,572

BUILDING #3707 (CONT'D)

TYPE WORKLOAD: Repair and testing of B-1 avionics and communication/navigation systems. C-130 avionics is also supported

MANHOURS PER YEAR: 45,627

PERSONNEL (# PEs): 69

WORKLOAD DIRECTION: Increasing. Radome testing workload (15 types) will begin in Jul 96

FUTURE PLANS AFFECTING BUILDING: Adding B-1 Radome Test Area within existing facility, Initial Operational Capability (IOC) Jul 96.

ADDITIONAL INFORMATION:

- *Environmentally controlled space and conditioned power for high tech electronic repair*
 - *Electrostatic discharge flooring*
 - *300K class clean room environment*
- *State of the art Technology*
 - *Nine (9) Intermediate Automated Test Equipment (IATE) sets for I-level avionics repair*
 - *Fourteen (14) Digital Automated Test Station for Avionics (DATSA) sets for D-level avionics repair*
 - *Two Analog Digital Integrated Test sets for repair of Power Control Assemblies (PCA)*
- *Easily adaptable to absorb B-1 two-level workload, realignment consolidation, and interservicing*



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 3902

BUILDING NAME: Consolidated Fuels Facility

DATE CONSTRUCTED: Occupancy expected mid Jun 95

VALUE OF BUILDING: \$14.5M

VALUE OF EQUIPMENT: \$14M

MISSION START DATE: Jun 95

TOTAL SQUARE FEET (SF): 93,700 Multi-floor

PRODUCTION SF: 32,000

ADMIN SF: 3,200

OTHER SF: 3,900 (Storage)

54,600 (Support Space)

BUILDING # 3902 (CONT'D)

TYPE WORKLOAD: Fuel control and accessories testing. Designed to house advance, state of the art, test system

MANHOURS PER YEAR: 150,000

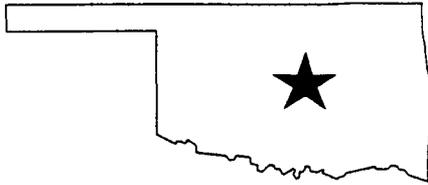
PERSONNEL (# PEs): 115

WORKLOAD DIRECTION: Steady (could increase slightly)

FUTURE PLANS AFFECTING BUILDING: No change

ADDITIONAL INFORMATION:

- Program initiated in early 1980s to modernize (safety, environmental, energy, and technology) depot fuel control testing in the Air Force
- Facility has been downsized significantly as requirements have changed, and is highly integrated with the latest technological advancements in fuel control test equipment
- It is not likely that the facility can be used effectively for any other use
- Existing equipment totaling \$18M will be relocated to facility by Jan 96
- An additional \$20M for equipment is planned through FY96
- Additional equipment will be planned in outyears to replace older equipment while maintaining required workload capacity



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 3708

BUILDING NAME: B-2 Avionics Facility

DATE CONSTRUCTED: 1993

VALUE OF BUILDING : \$9.2M

VALUE OF EQUIPMENT: \$49.2M

MISSION START DATE: 1993

TOTAL SQUARE FEET (SF): 55,000

PRODUCTION SF: 30,000

ADMIN SF: 5,100

OTHER SF: 19,900

BUILDING # 3708 (CONT'D)

TYPE WORKLOAD: Currently supports B-1, B-52, KC-135, C-130, C-141 aircraft and other common components installed on fighter aircraft. B-2 workload will start during FY96.

MANHOURS PER YEAR: 73,223

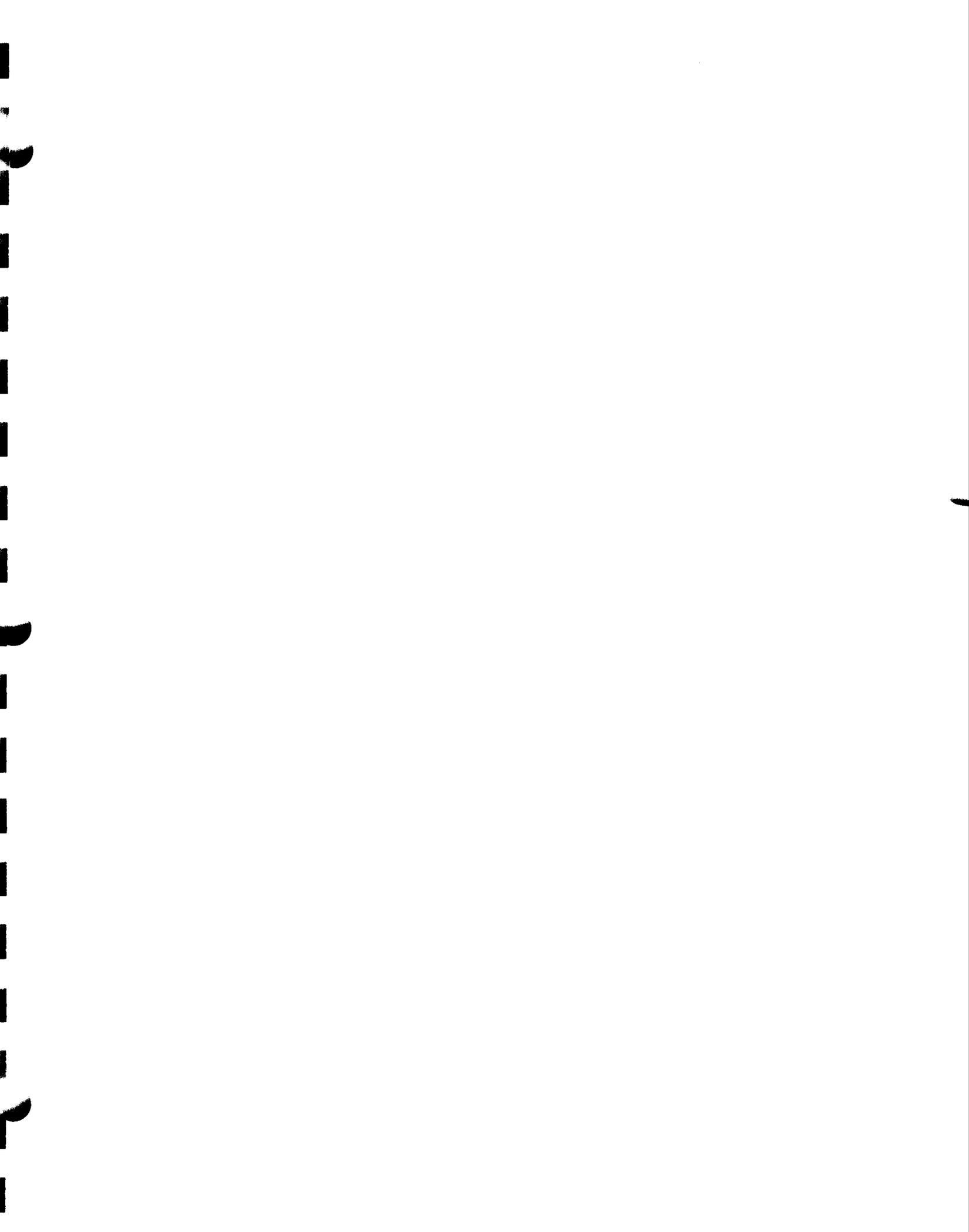
PERSONNEL (# PEs): 40

WORKLOAD DIRECTION: Increasing. Future home of all B-2 avionics workload

FUTURE PLANS AFFECTING BUILDING: Consolidation of B-1 Avionics into this building is planned which will allow Instruments to be moved to Bldg # 3707

ADDITIONAL INFORMATION:

- *Environmentally controlled space and conditioned power*
 - *Raised Electrostatic Discharge (ESD) production floor with power pedestals*
 - *300K class clean room*
 - *4435 SF Radio Frequency (RF) shielded screen room*
 - *Three 400 cycle frequency converters*
 - *Two conditioned power motor generators*
- *Lean Two-Level Operation*
 - *Utilities maintenance express table for induction*
 - *Customer requirements computed from R05 data*
 - *Second source of repair for WR-ALC*



TAB 7

BLDG 3221

- BLADE REPAIR FACILITY



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 3221

BUILDING NAME: Blade Repair Facility

DATE CONSTRUCTED: Jan 89

VALUE OF BUILDING: \$19.4M

VALUE OF INITIAL OUTFITTING EQUIPMENT: \$22.598M

VALUE OF OTHER EQUIPMENT: \$28.5M

MISSION START DATE: Jan 89

TOTAL SQUARE FEET (SF): 125,074

PRODUCTION SF: 71,334

ADMIN SF: 5,437

OTHER SF: 48,303

BUILDING # 3221 (CONT'D)

TYPE WORKLOAD: Blade and Vane repair. Facility has latest technology in Type I and II blade repair

MANHOURS PER YEAR: 81,450

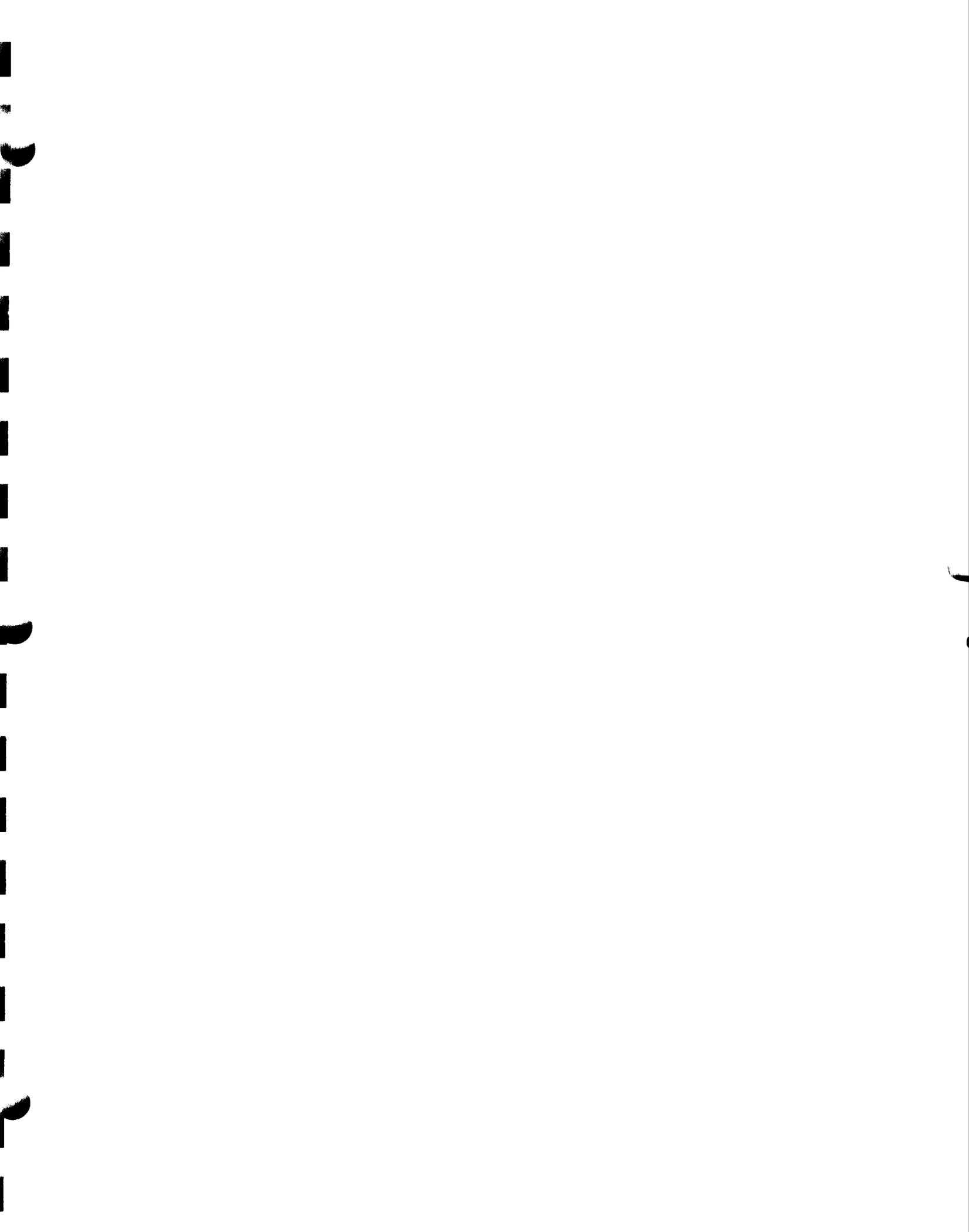
PERSONNEL (# PEs): 70

WORKLOAD DIRECTION: Increasing

FUTURE PLANS AFFECTING BUILDING: No change

ADDITIONAL INFORMATION:

- OC-ALC has the largest blade repair facility in DoD (125,000 square feet) with the capability to do approximately 5 million blades per year (current workload is 750,000 blades)
- This facility is nearly twice the size of the Navy's Engine Airfoil Center at Cherry Point (capacity 1 million blades per year)
- OC-ALC blade facility contains 10 repair cells which perform a multitude of repair functions on jet engine blades and vanes



TAB 8

BLDG 3900

- DEFENSE MEGACENTER



TINKER AIR FORCE BASE

FACILITY FACT SHEET

BUILDING # 3900

BUILDING NAME: Defense Megacenter

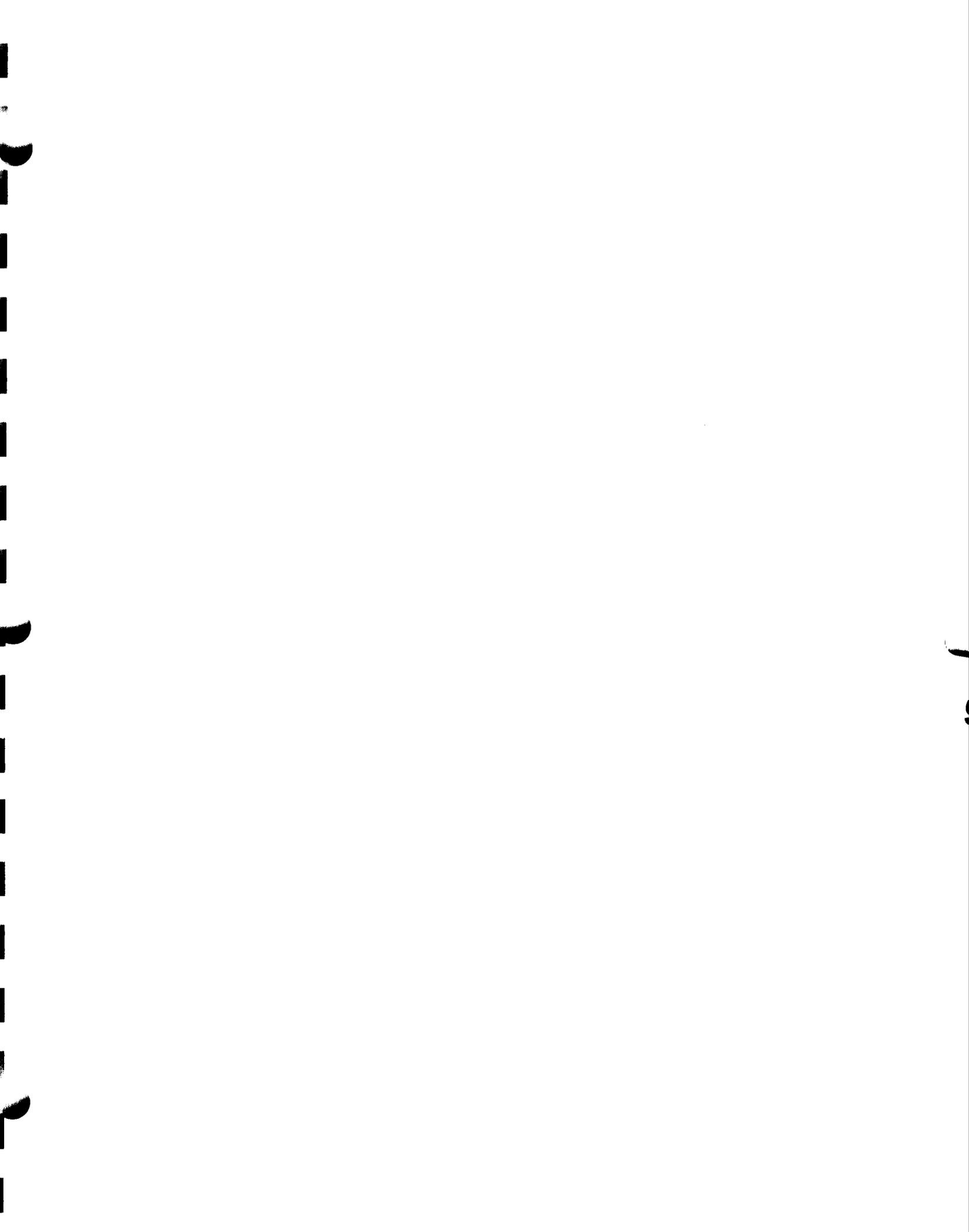
MISSION: The Defense Megacenter mission is to provide data processing services and machinery to promote operational effectiveness, readiness, mobility, and related missions. The Megacenter supports 73,000 users in 46 states and 13 countries. This includes 62 Air Force bases and 43 Air National Guard and Reserve units.

VALUE OF BUILDING: \$13.2M

TOTAL SQUARE FEET (SF): 96,000 (includes 65,000 SF of raised floor)

NUMBER OF PERSONNEL: 231 government personnel
33 contractors

MISSION START DATE AT TINKER AFB: 1993. The Defense Megacenter mission at Tinker was performed by a communications/information processing organization under the ALC Commander prior to 1993. The organization broke into three new organizations in 1993, the largest of which was the Megacenter. The other two organizations formed were the 72d Communications Squadron and the Materiel Systems Group.

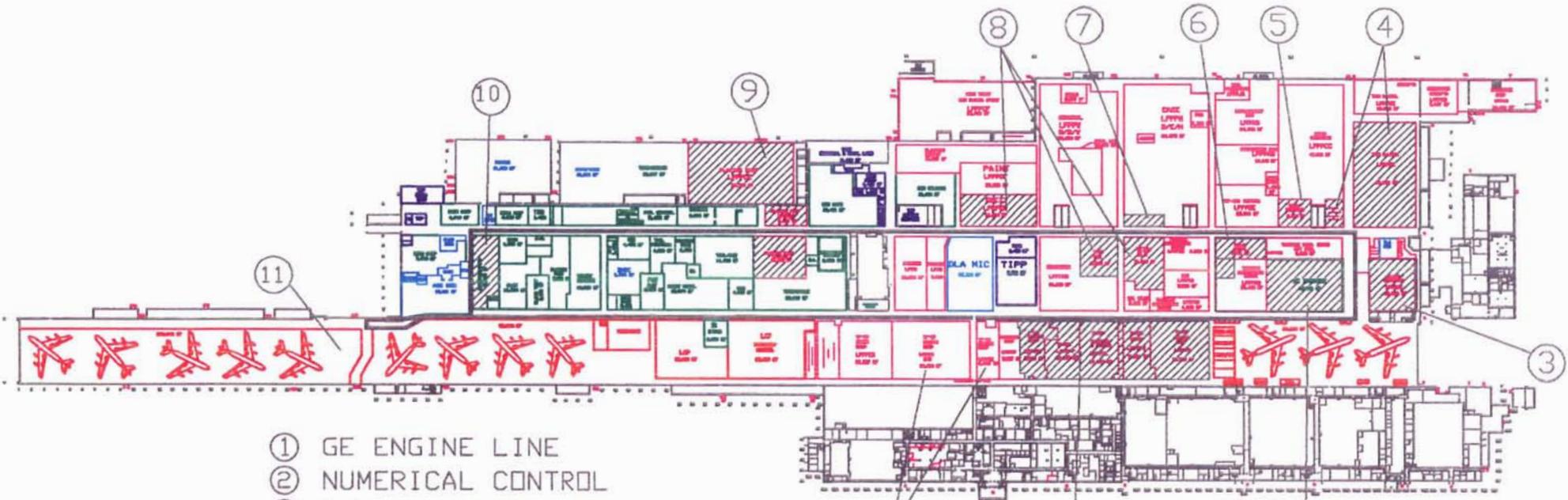


TAB 9

INDUSTRIAL SHOPS AREA. BLDG 3001

- GE ENGINE LINE
- NUMERICAL CONTROL
- CARBON DIOXIDE BLASTING
- TF33 TWO LEVEL MAINTENANCE
- INVENTORY TRACKING
- EDDY CURRENT TEST
- SPRINGFIELD GRINDERS
- QUICK ENGINE CHANGE
- PLATING SHOP
- ENGINE MANIFOLD CLEANING
- -135 LINE
- TF30 TWO LEVEL MAINTENANCE

BUILDING 3001



- ① GE ENGINE LINE
- ② NUMERICAL CONTROL
- ③ CARBON DIOXIDE BLASTING
- ④ TF33 TWO LEVEL MAINTENANCE
- ⑤ INVENTORY TRACKING
- ⑥ EDDY CURRENT TEST
- ⑦ SPRINGFIELD GRINDERS
- ⑧ QUICK ENGINE CHANGE
- ⑨ PLATING SHOP
- ⑩ ENGINE MANIFOLD CLEANING
- ⑪ 135 LINE
- ⑫ TF30 TWO LEVEL MAINTENANCE

BASE CLOSURE AND REALIGNMENT

REVIEW OF

OKLAHOMA CITY AIR LOGISTICS CENTER

7 JUN 95





OVERVIEW



OC-ALC SITE VISIT
7 JUNE 95

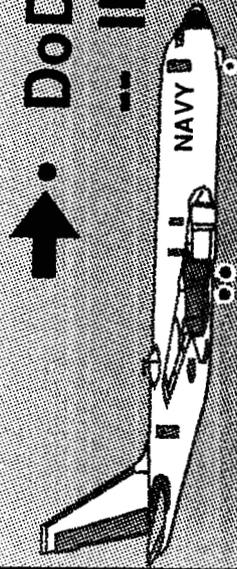
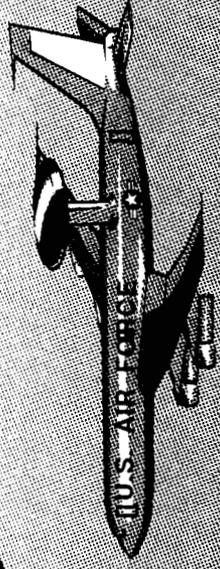
BASE CLOSURE CRITERIA

**ALC
DEPOTS**

- I. MISSION/OPERATIONAL READINESS
- II. AVAILABILITY/CONDITION OF LAND/FACILITIES
- III. CONTINGENCY/MOBILIZATION
- IV. CLOSURE COSTS/MANPOWER EFFECT
- V. RETURN ON INVESTMENT
- VI. ECONOMIC IMPACT ON COMMUNITIES
- VII. COMMUNITY INFRASTRUCTURE
- VIII. ENVIRONMENTAL IMPACT

I. MISSION/OPERATIONAL READINESS

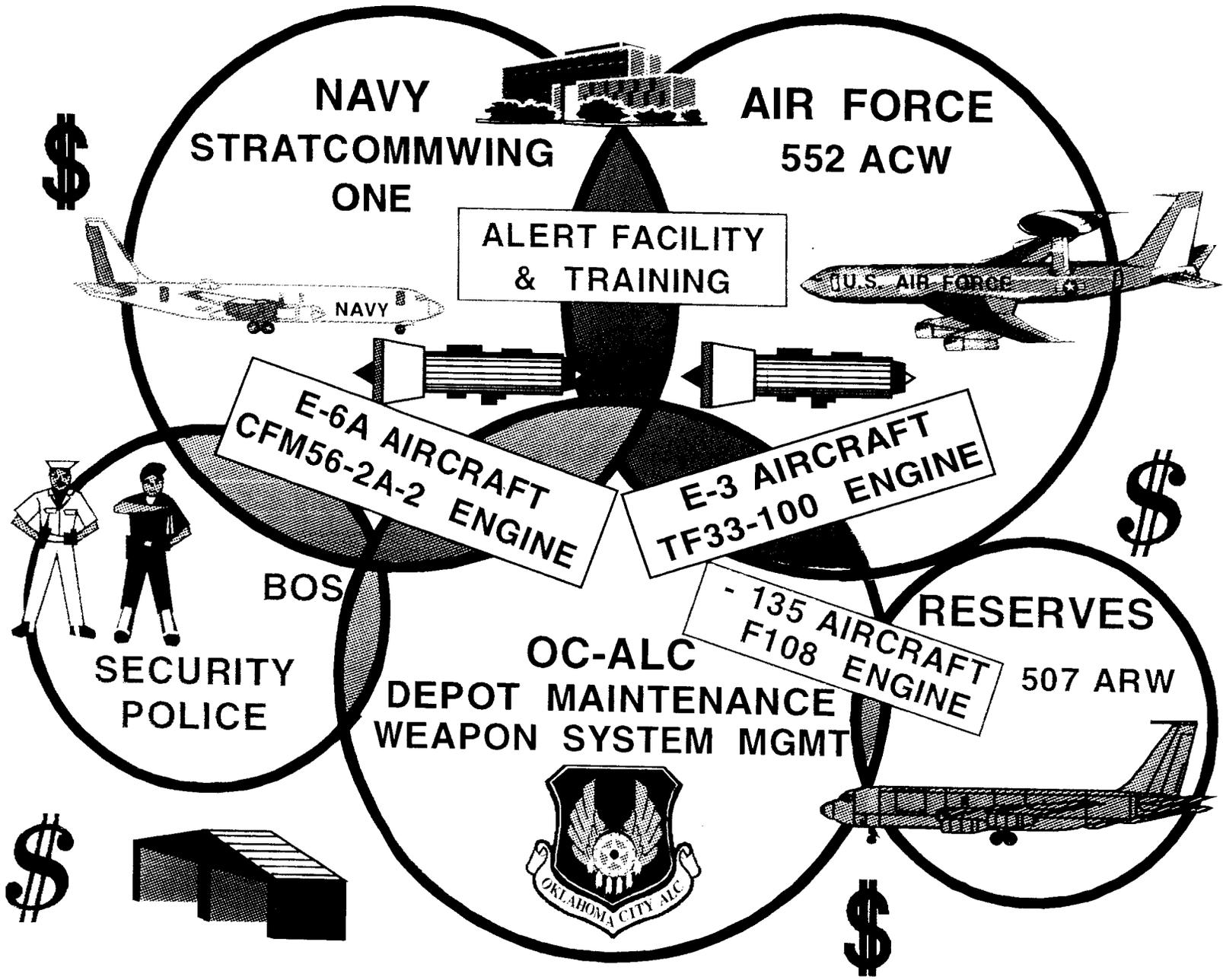
- DoD JOINTNESS
- -- INTERSERVICE



- WORKLOAD

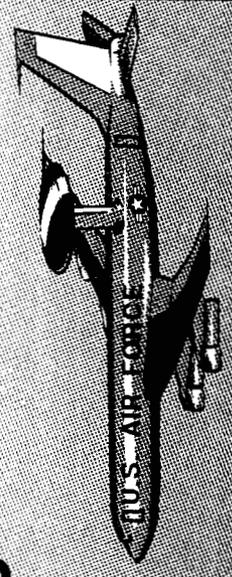
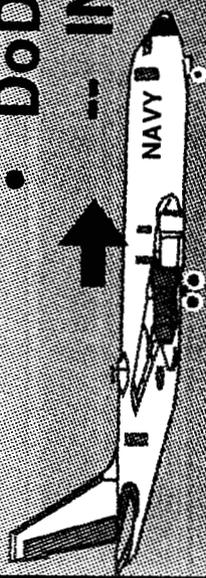
- CORE

- DEPOT MAINTENANCE



I. MISSION/OPERATIONAL READINESS

- DoD JOINTNESS
- INTERSERVICE



- WORKLOAD

- CORE

- DEPOT MAINTENANCE



INTERSERVICE



- **DEPOT MAINTENANCE INTERSERVICE**
- **TF30 ENGINE CONSOLIDATION STUDY**
- **COST VS PRICE**
- **FY94 AIRCRAFT ENGINES**



DEPOT MAINTENANCE INTERSERVICE (AGENT/SOR)



ENGINES

TF30

F110

CFM56

CUSTOMER

NAVY (F-14A)

NAVY (F-14D)

NAVY (E-6A)

AIRCRAFT

E-6A

B-52/KC135

NAVY

NASA

COMPONENTS

BLADES/VANES

AIRCRAFT RELATED

ARMY/NAVY

ARMY/NAVY/NASA



INTERSERVICE TF30 ENGINE CONSOLIDATION STUDY (\$M)



	<u>FY92</u>	<u>FY93</u>	<u>FY94</u>	<u>FY95</u>	<u>TOTAL</u>
STATUS QUO	\$113.6	\$106.1	\$ 95.3	\$ 88.0	\$403.0
CONSOLIDATE AT OC-ALC	\$107.3	\$ 99.4	\$ 90.2	\$ 83.7	\$380.6
COST OF ACTION	\$ 4.1				\$ 4.1
NET SAVINGS	\$ 2.2	\$ 6.7	\$ 5.1	\$ 4.3	\$ 18.3



INTERSERVICE FY94 COST VS PRICE



	MINOR		MAJOR	
	<u>NEG</u>	<u>ACT</u>	<u>NEG</u>	<u>ACT</u>
TF30-414	163,035	157,515	395,413	337,873
F110-400	224,970	237,070	491,534	437,910



INTERSERVICE FY94 AIRCRAFT ENGINES



AIRCRAFT ENGINES

CFM56

F101

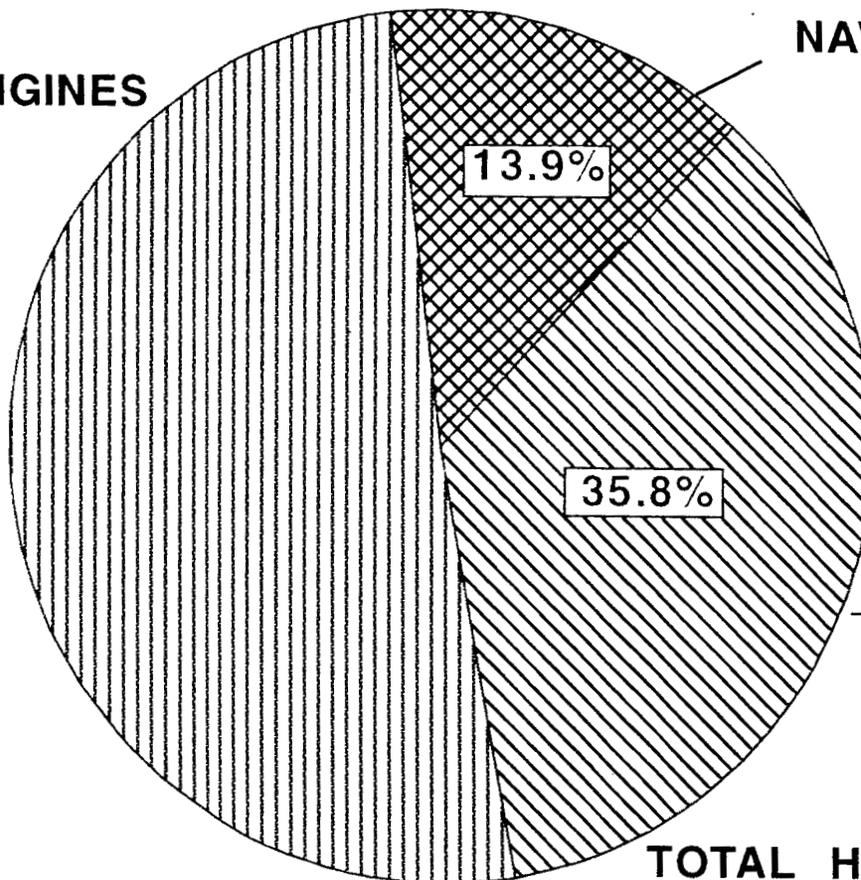
F108

F110

F118

TF30

TF33



NAVY F110/TF30

13.9%

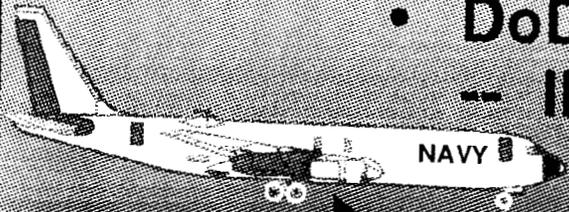
35.8%

AIR FORCE
F110/TF30

TOTAL HOURS - 2,374,505

I. MISSION/OPERATIONAL READINESS

- DoD JOINTNESS
-- INTERSERVICE



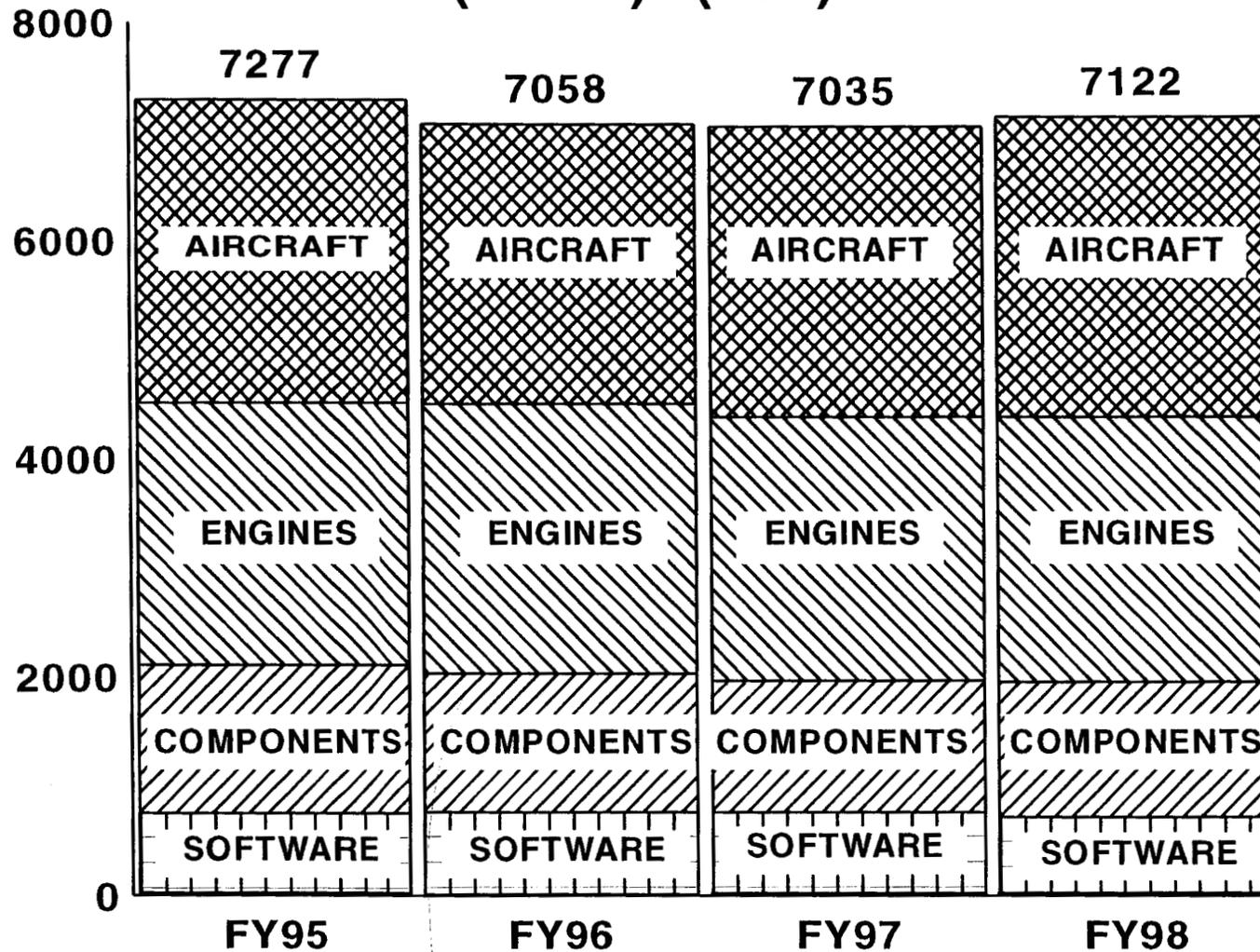
- WORKLOAD

- CORE



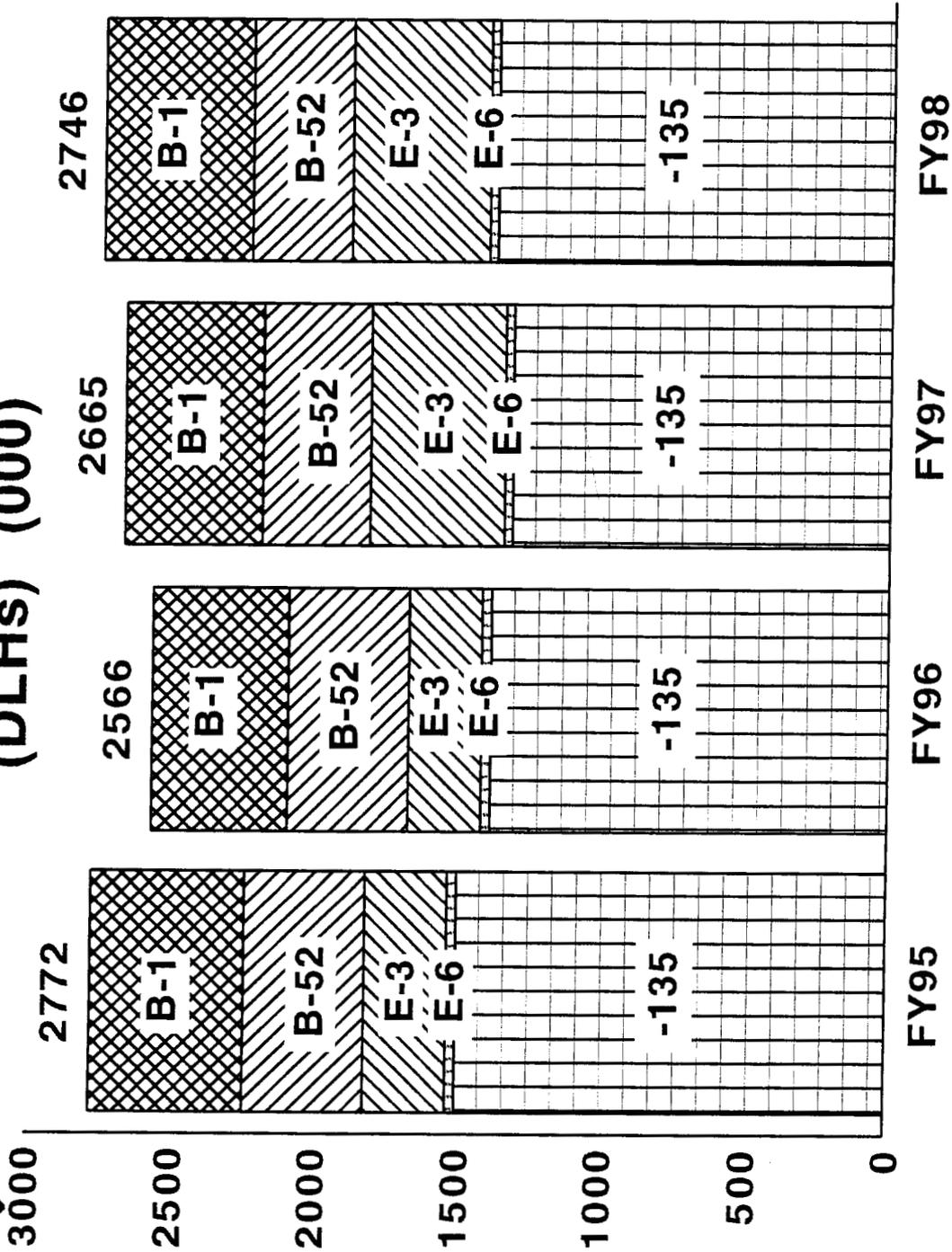


WORKLOAD DIRECT LABOR HOURS (DLHs) (000)



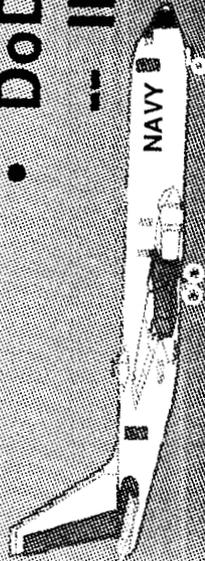


AIRCRAFT WORKLOAD DIRECT LABOR HOURS (DLHs) (000)



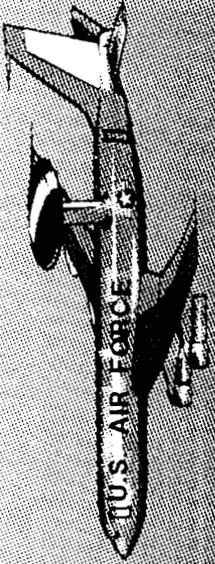
I. MISSION/OPERATIONAL READINESS

- DoD JOINTNESS
-- INTERSERVICE



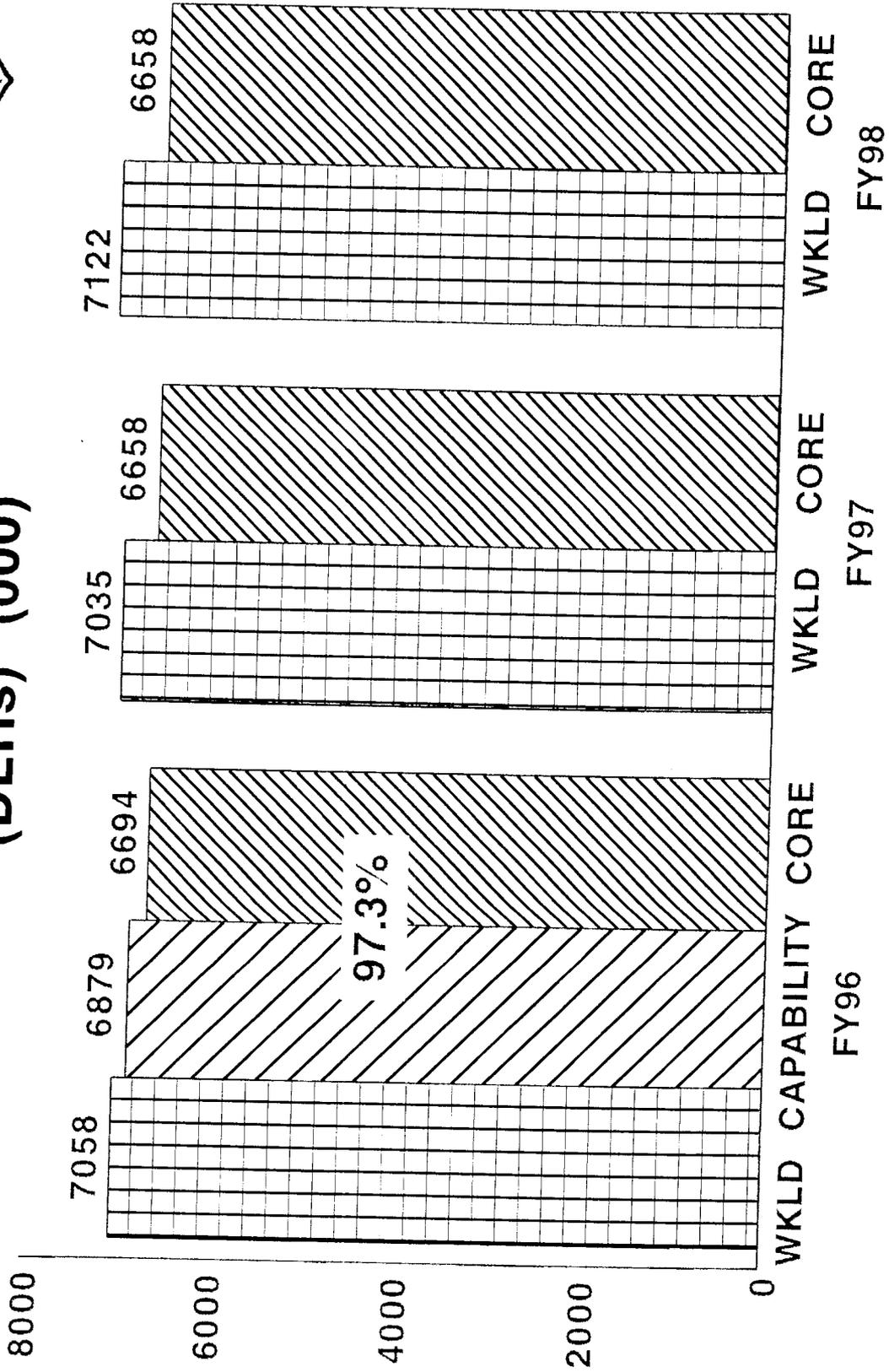
- WORKLOAD

→ CORE





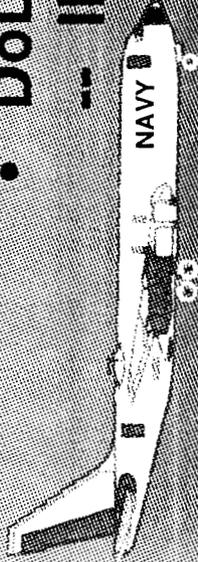
CORE VS WORKLOAD DIRECT LABOR HOURS (DLHs) (000)



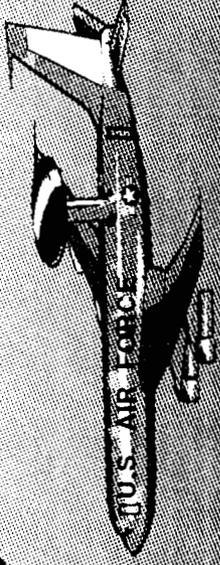
I. MISSION/OPERATIONAL

READINESS

- DoD JOINTNESS
- INTERSERVICE



- WORKLOAD



- COST



DEPOT MAINTENANCE OPERATIONS INDICATORS (DMOIs)



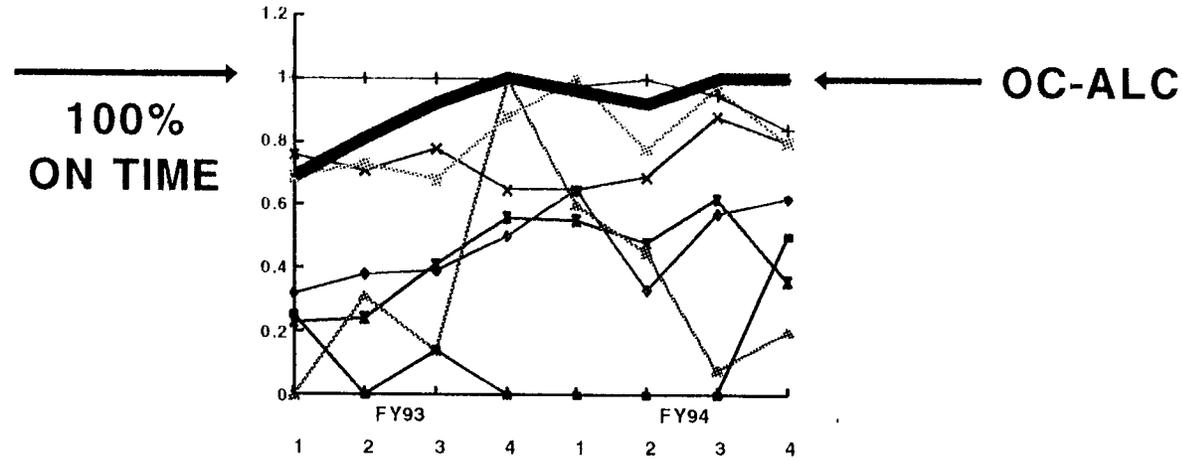
- **PURPOSE**
 - TO MEASURE AN INDIVIDUAL DEPOT'S PERFORMANCE OVER A PERIOD OF TIME
- **DATA REPORTED BY**
 - AIR FORCE
 - ARMY
 - NAVY
 - MARINES
 - DEFENSE LOGISTICS AGENCY
- **DMOIs INCLUDE:**
 - COSTS
 - PROCESS DAYS
 - SCHEDULE



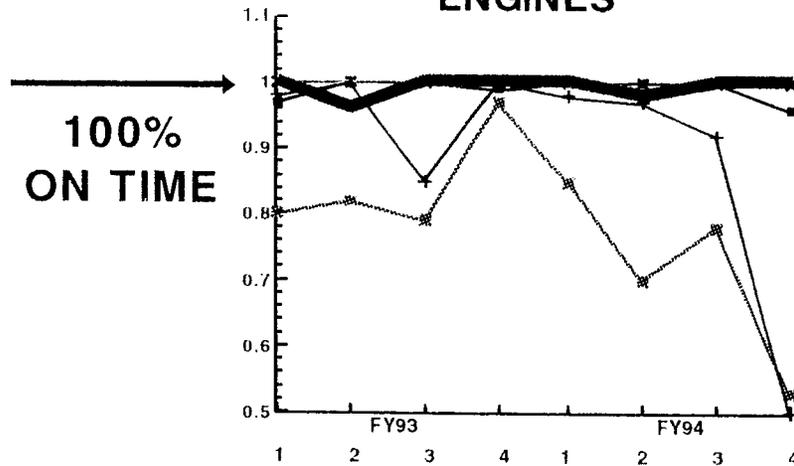
SCHEDULE INDICATOR DoD AVIATION DEPOTS



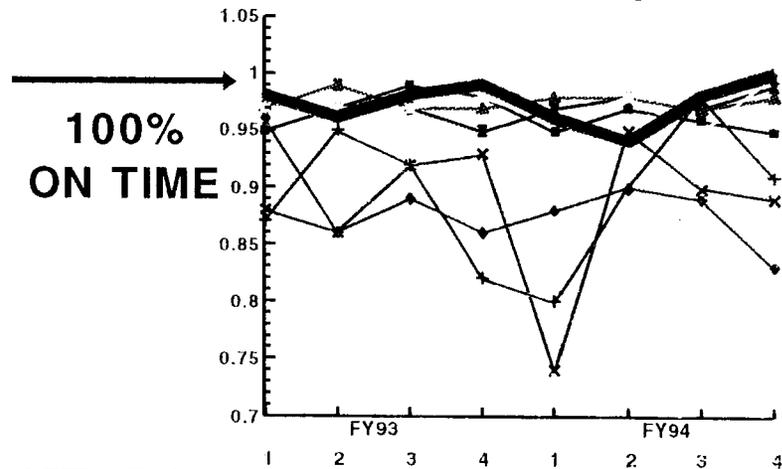
AIRCRAFT



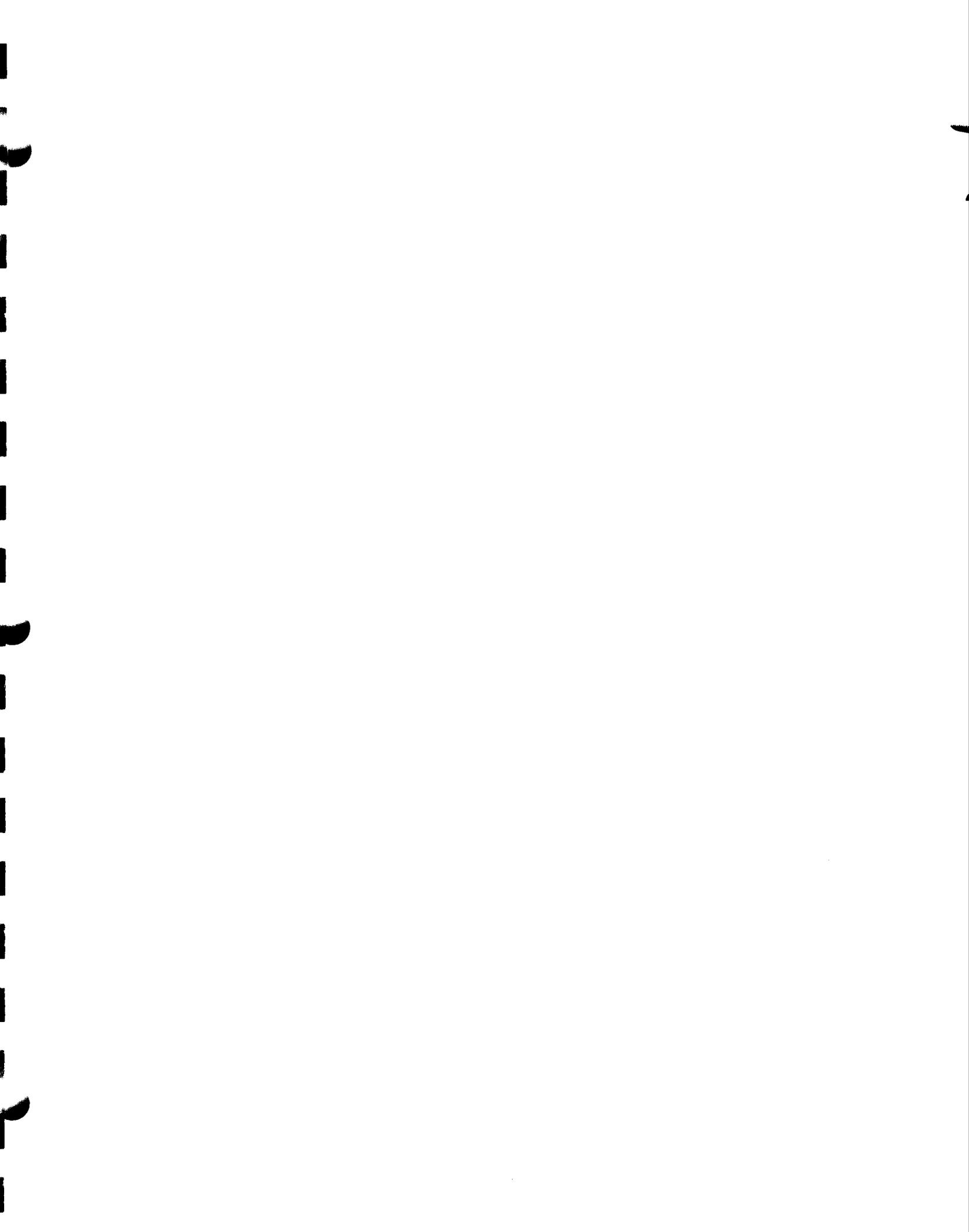
ENGINES



COMPONENTS

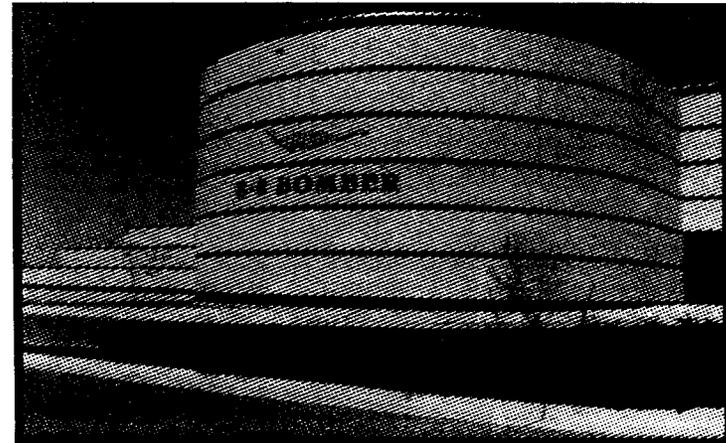
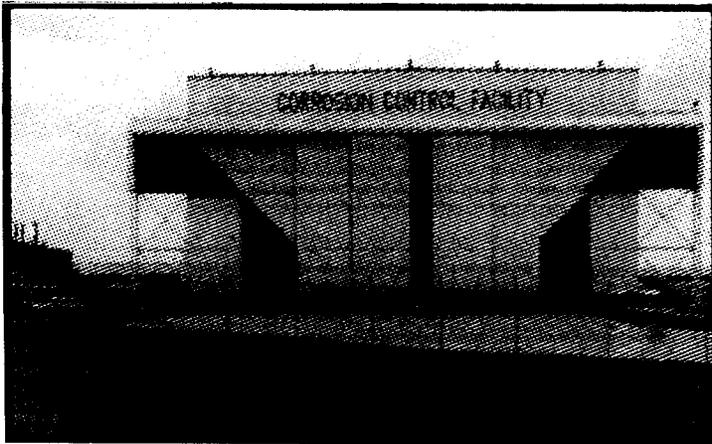


OC-ALC

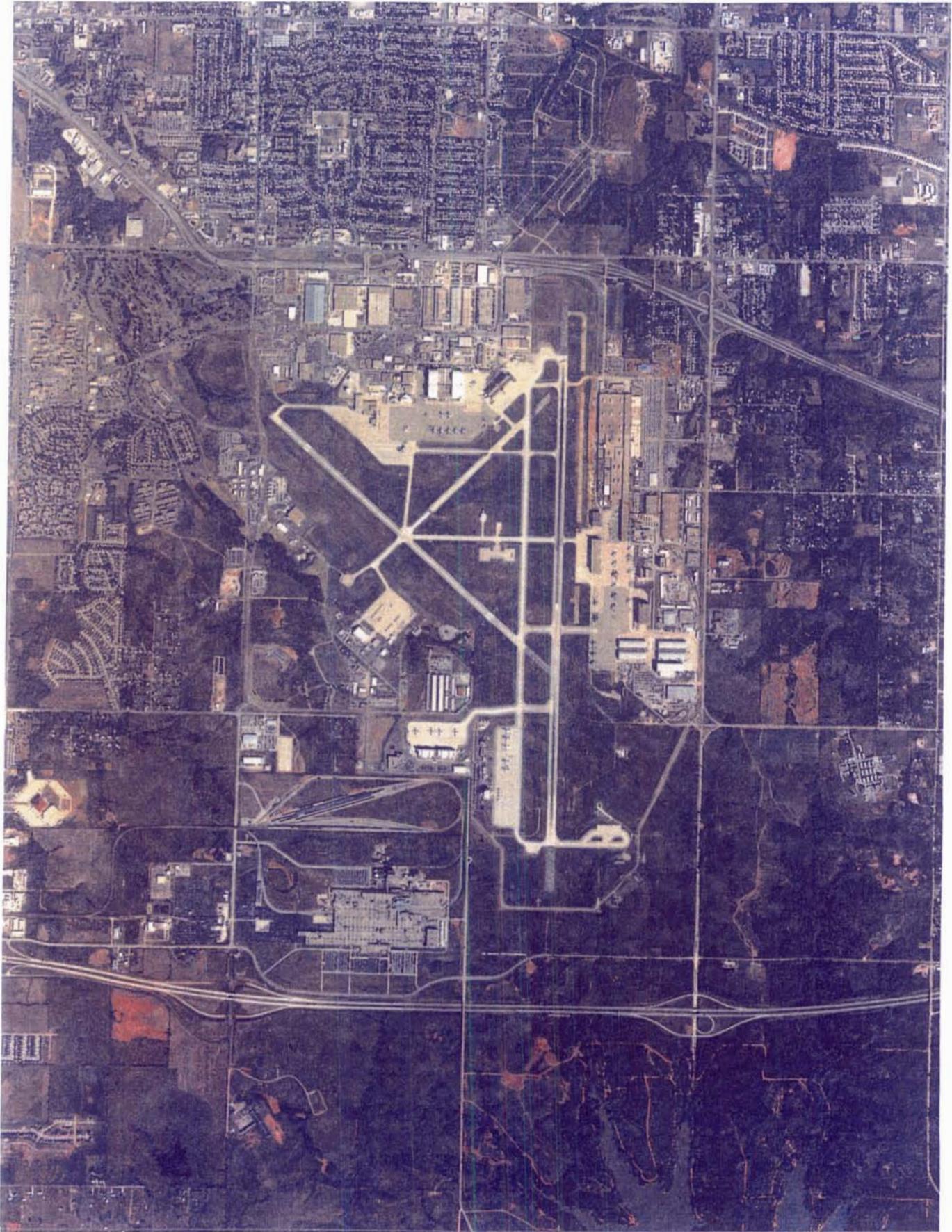


II. AVAILABILITY/CONDITION OF LAND/FACILITIES

- LAND
- FACILITIES
 - AVERAGE AGE
 - INVESTMENTS
 - CAPACITY



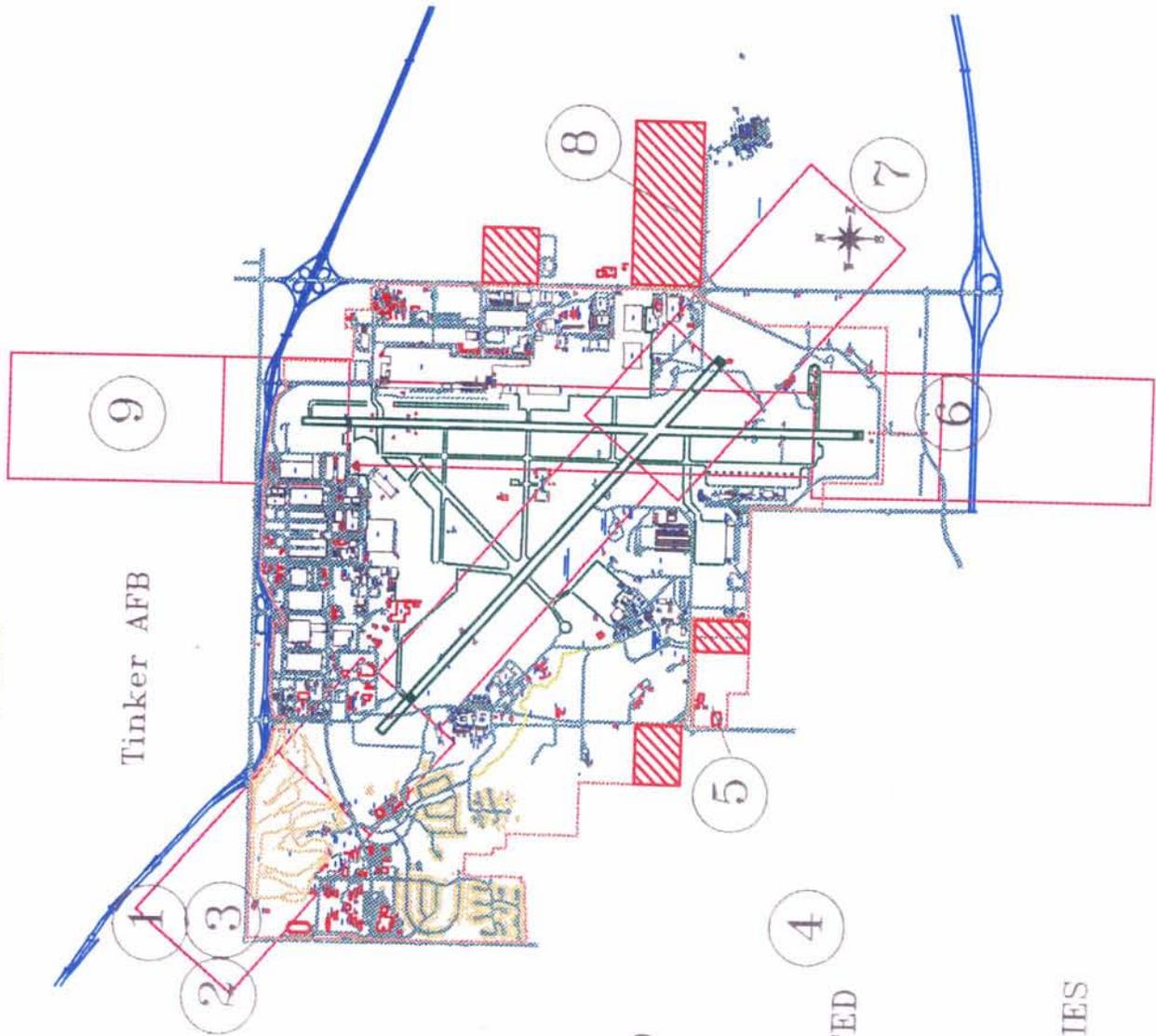
AERIAL PHOTO - TINKER AIR FORCE BASE



TAFB/NORTH - AERIAL PHOTO



COMMUNITY SUPPORT



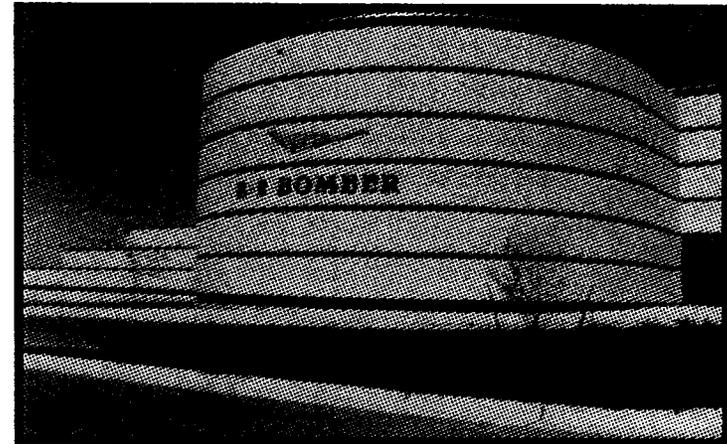
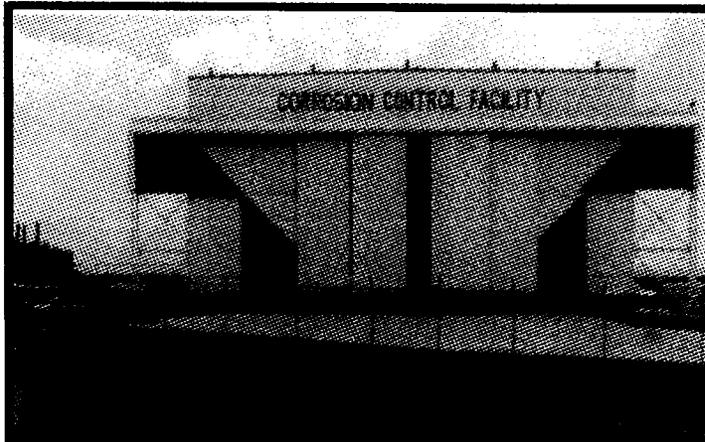
LEGEND

- 1 TINKER INDUSTRIAL PARK RESTRICTED
- 2 SHOPPING CENTER DISAPPROVED
- 3/4 PROPOSED CHURCH RELOCATED
- 5 DRMO RELOCATION SITE
- 6/7 PROPOSED ROCK CRUSHER RELOCATED
- 8 TRAILER PARK DISAPPROVED
- 9 GLENWOOD HOUSING AREA
PURCHASED BY OKLA COUNTY

 PURCHASED BY LOCAL AUTHORITIES
FOR FUTURE BASE USE

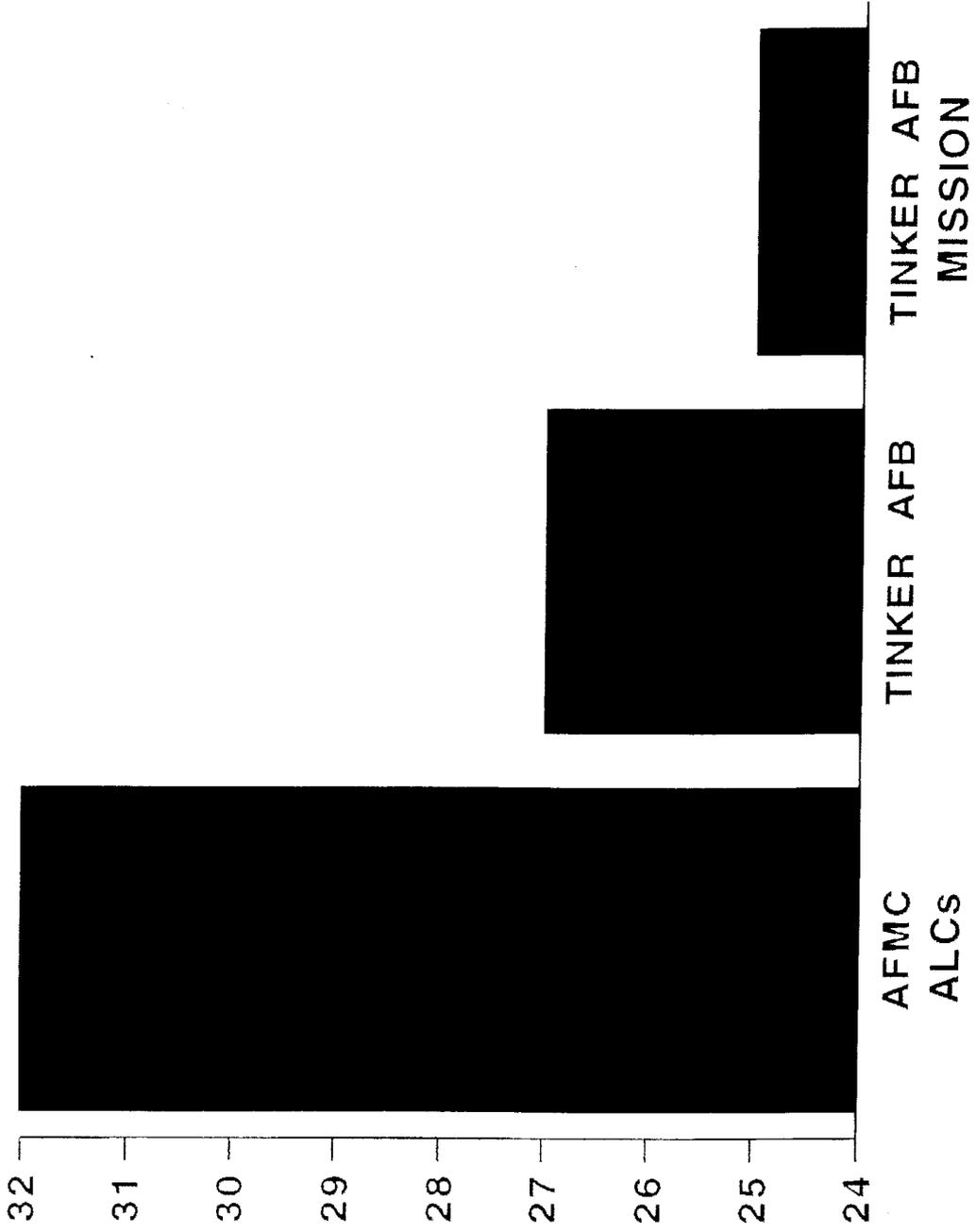
II. AVAILABILITY/CONDITION OF LAND/FACILITIES

- LAND
 - FACILITIES
- ➔ - AVERAGE AGE
- INVESTMENTS
 - CAPACITY



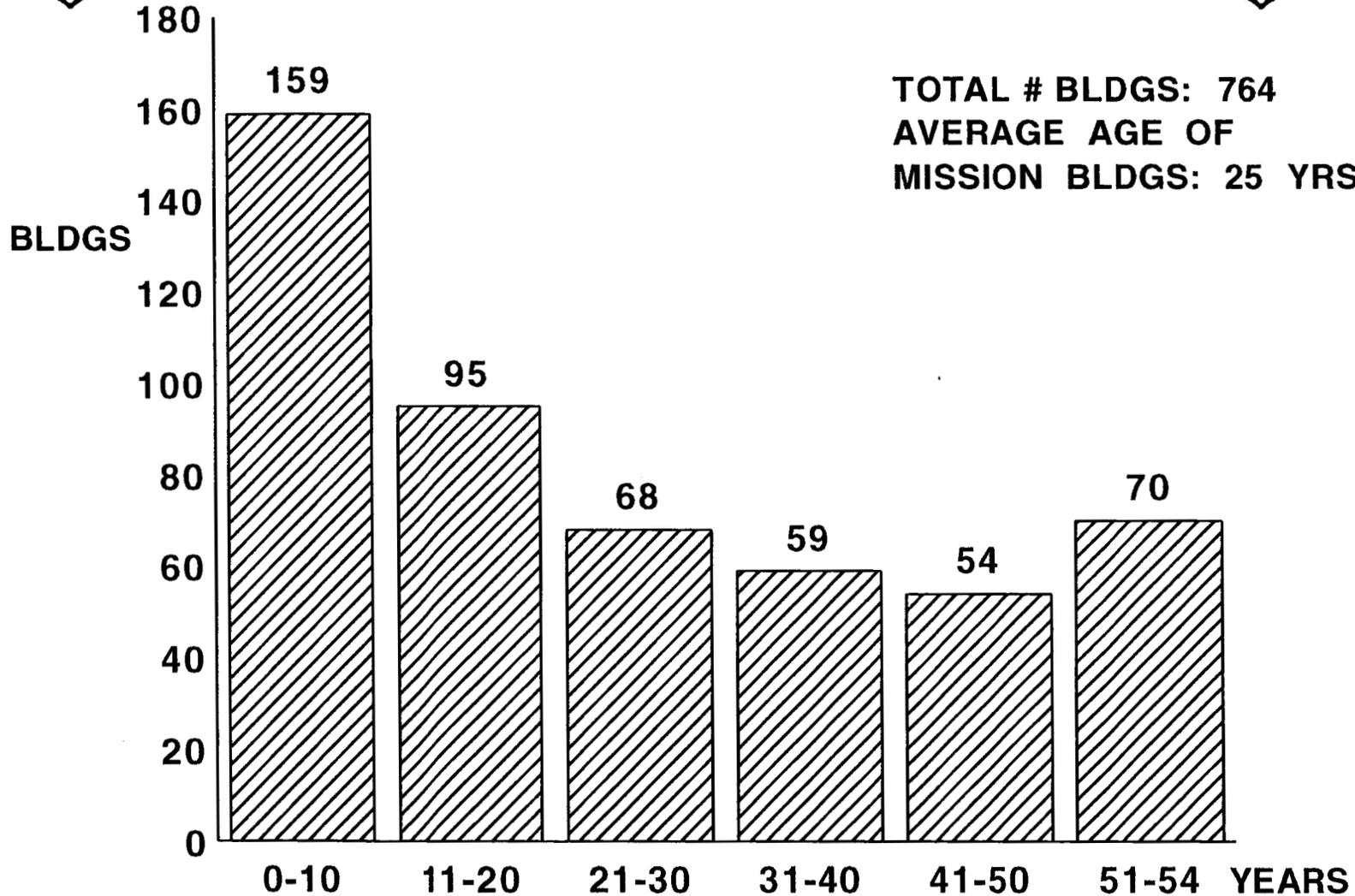


AVERAGE BUILDING AGES



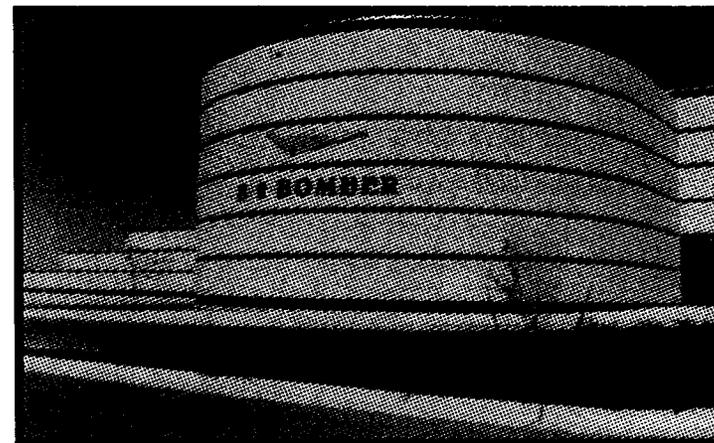
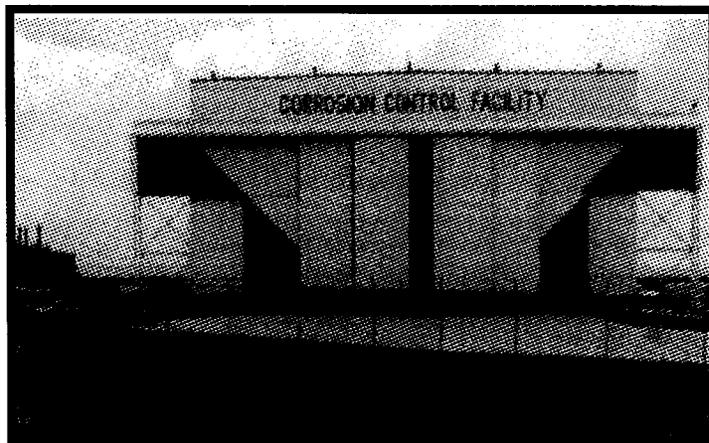


TINKER AFB MISSION BUILDINGS



II. AVAILABILITY/CONDITION OF LAND/FACILITIES

- LAND
- FACILITIES
 - AVERAGE AGE
 - INVESTMENTS
 - CAPACITY

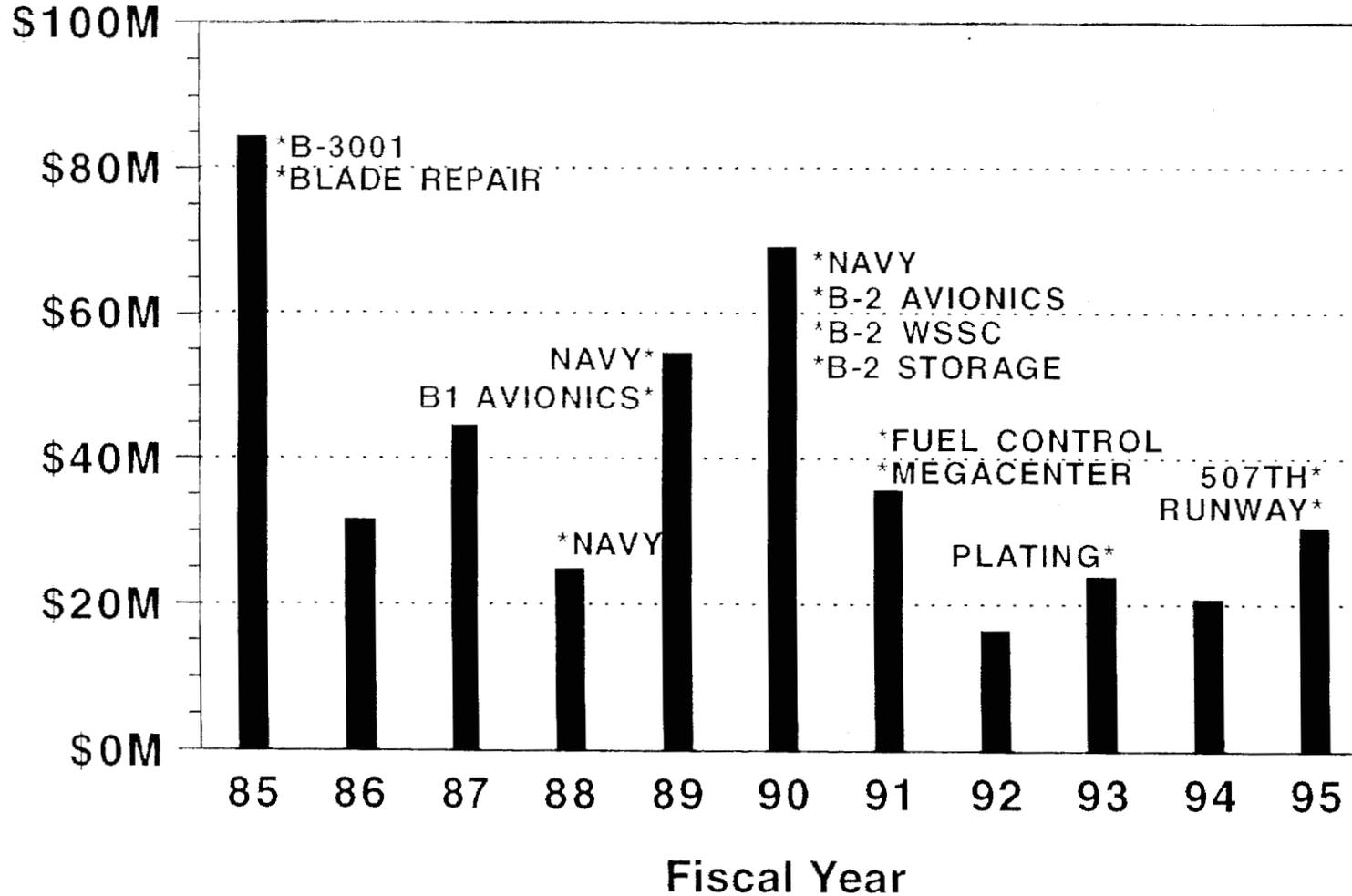




FACILITIES INVESTMENTS IN TINKER AFB \$435M

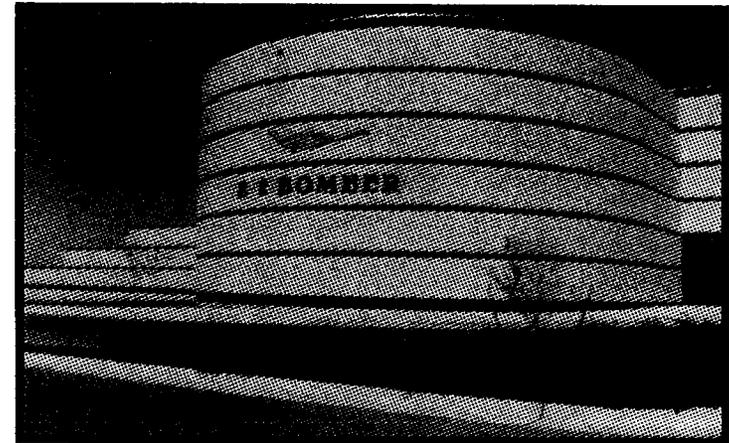
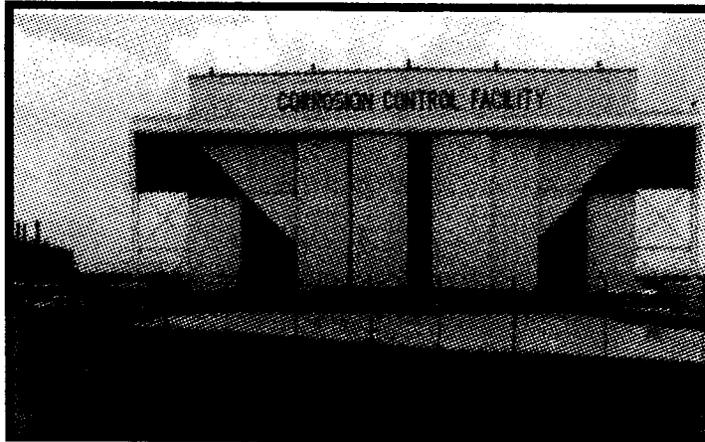


\$ in Millions



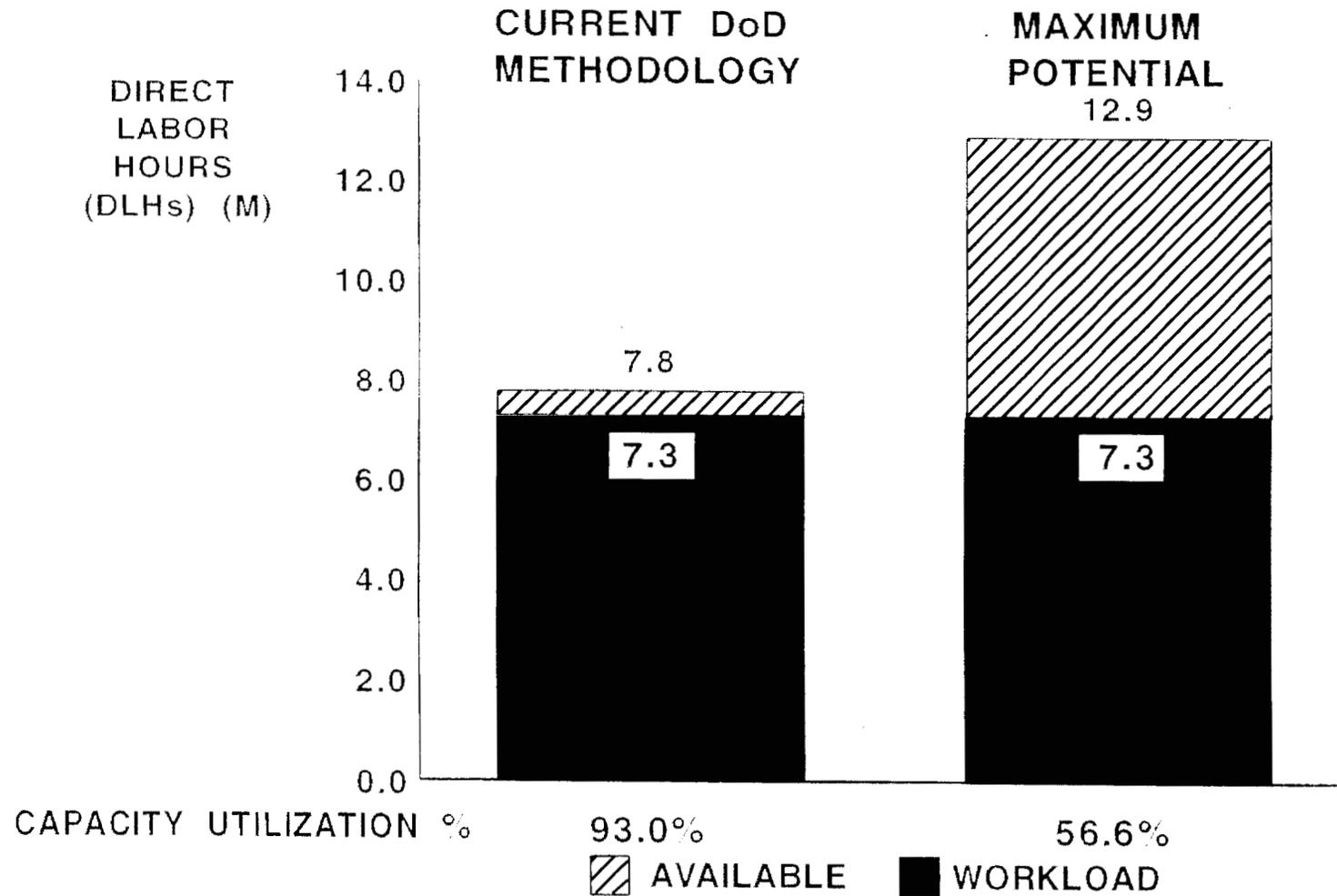
II. AVAILABILITY/CONDITION OF LAND/FACILITIES

- LAND
- FACILITIES
 - AVERAGE AGE
 - INVESTMENTS
 - ➔ - CAPACITY





OC-ALC CAPACITY VS WORKLOAD FY95

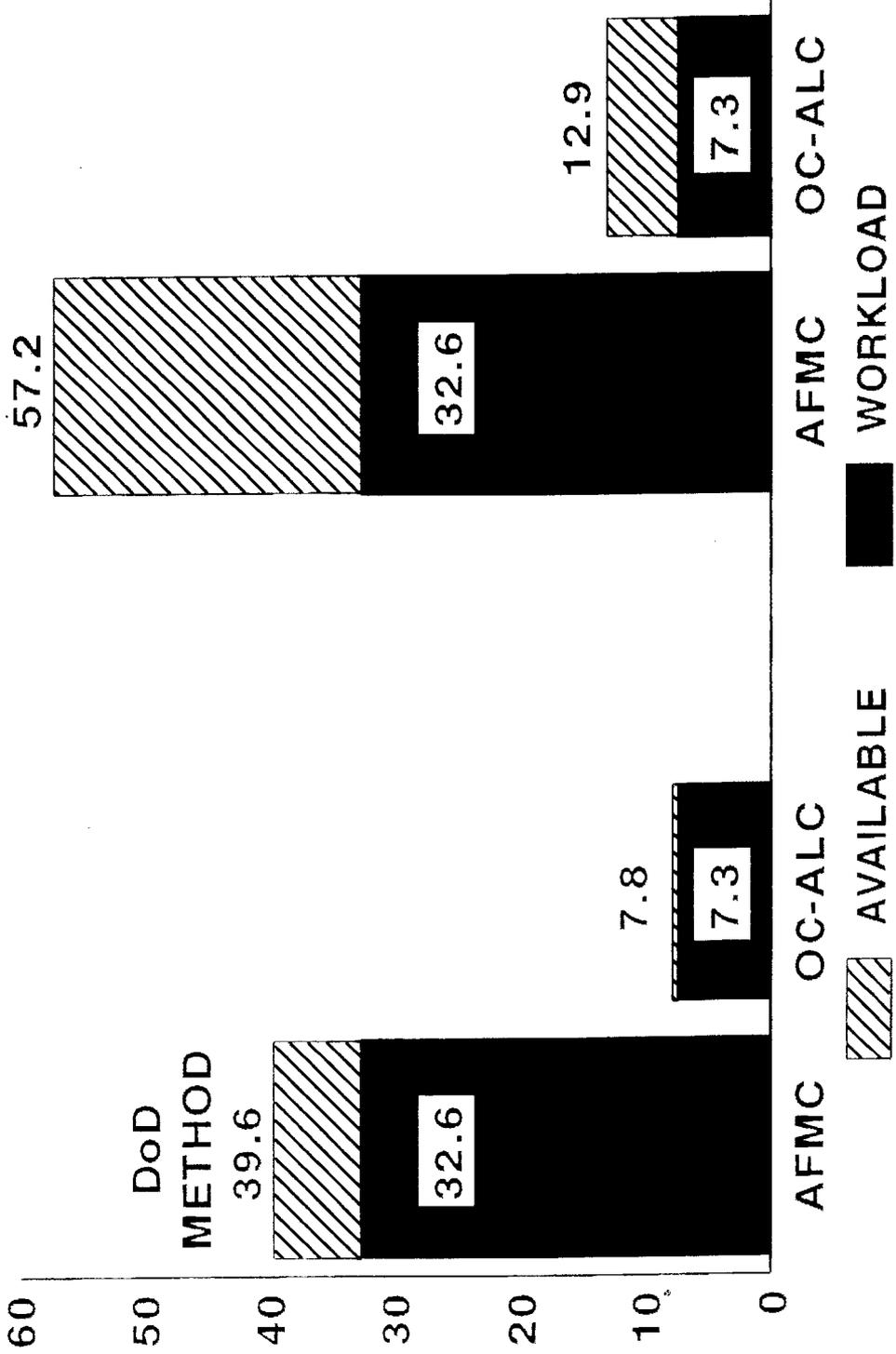




CAPACITY

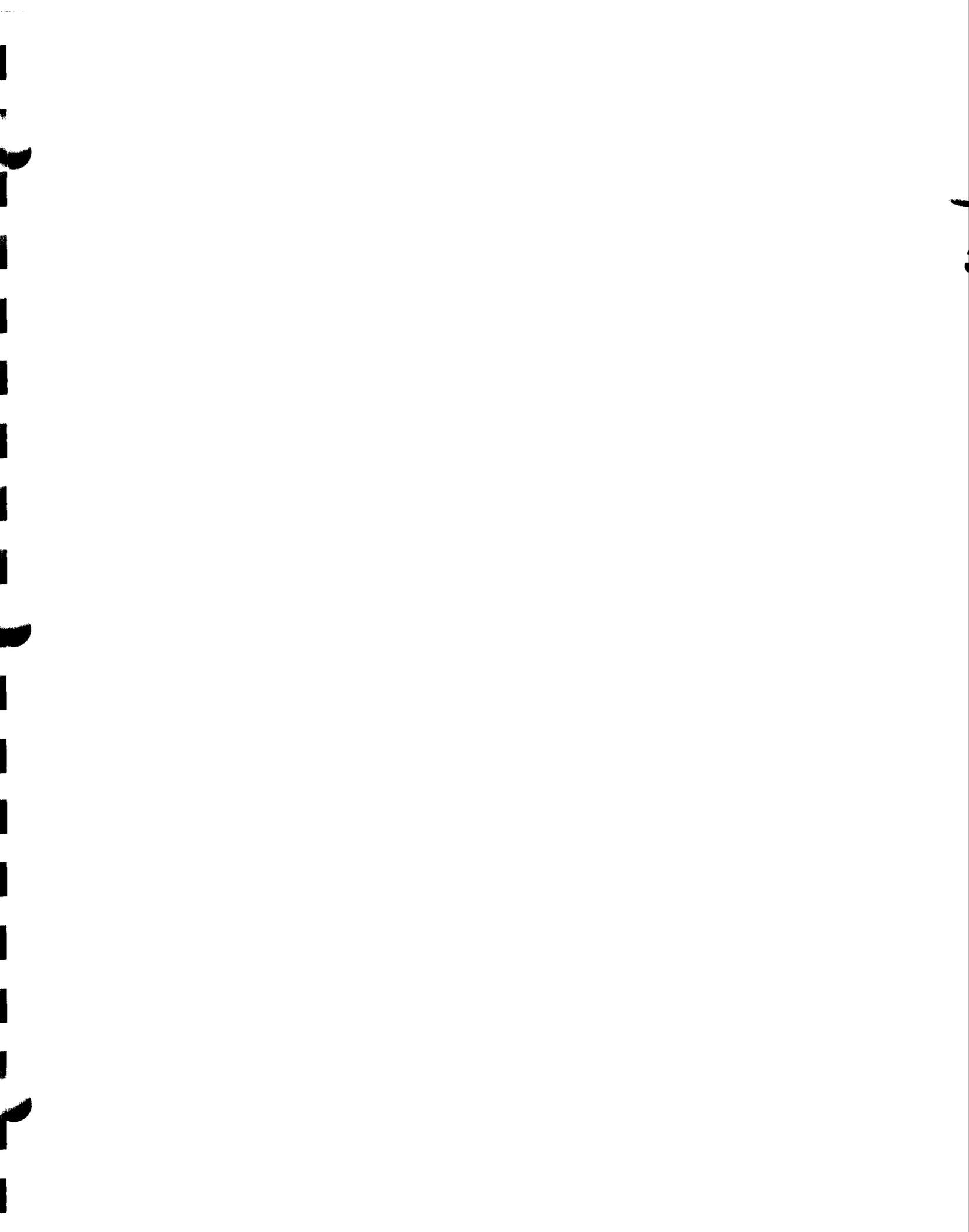
DIRECT LABOR HOURS (DLHs) (M)

MAXIMUM
POTENTIAL



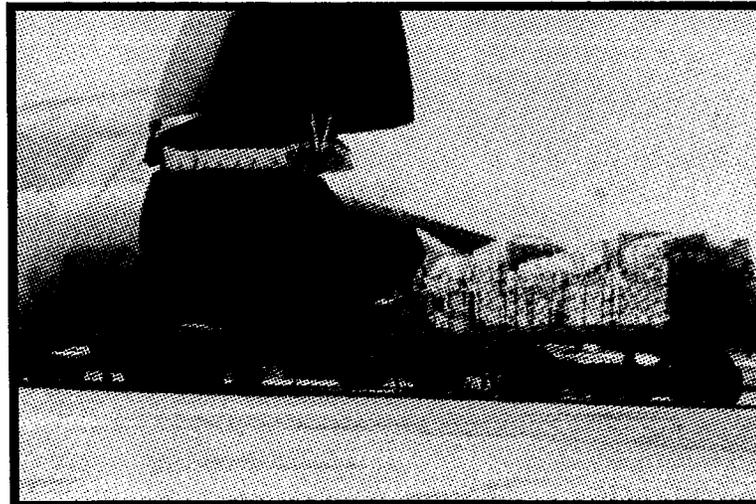
DoD
METHOD

AFMFC OC-ALC AFMFC OC-ALC
AVAILABLE WORKLOAD



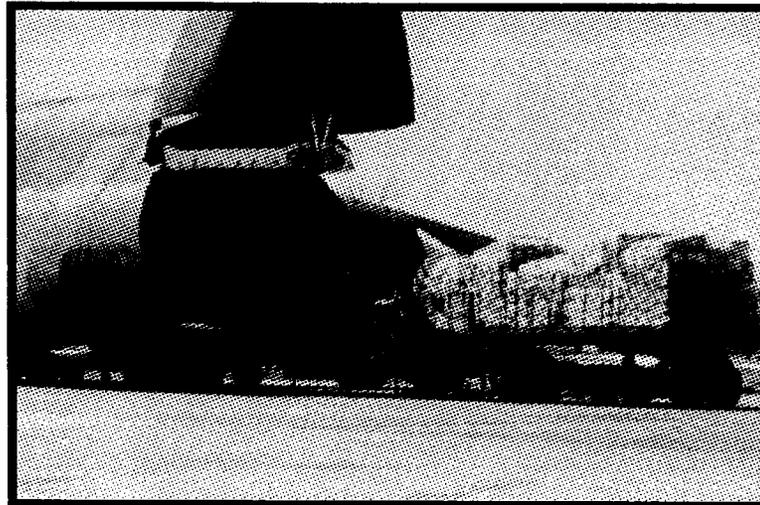
III. CONTINGENCY/MOBILIZATION

- ➔ • CURRENT SUPPORT**
 - AWACS**
 - 3RD COMBAT COMMUNICATIONS GROUP**
 - TACAMO (NAVY)**
- AERIAL PORT OF EMBARKATION (APOE)**
- GEOGRAPHIC LOCATION**
- TWO RUNWAYS**



III. CONTINGENCY/MOBILIZATION

- **CURRENT SUPPORT**
 - **AWACS**
 - **3RD COMBAT COMMUNICATIONS GROUP**
 - **TACAMO (NAVY)**
- ➔ • **AERIAL PORT OF EMBARKATION (APOE)**
- **GEOGRAPHIC LOCATION**
- **TWO RUNWAYS**





**AERIAL PORT OF EMBARKATION
(APOE)
DESERT SHIELD/DESERT STORM**



- **ONE OF SIX CONUS APOEs**
- **OC-ALC MOVED OVER 25% OF APOE CARGO**
- **AUG 90 - MAR 91 72,000 TONS TRANSPORTED**
 - **SECOND TO DOVER AFB, DE**
- **CARGO MOVEMENT 4 - 5 TIMES NORMAL**
- **PEAK PERIODS (DAILY)**
 - **79 TRUCKS**
 - **20 AIRCRAFT**
- **CONTINGENCY APOE**
 - **24 AIRCRAFT PARKING SPOTS**
 - **5 MUNITIONS IGLOOS/80,000 NET EXPLOSIVE WEIGHT EACH**

III. CONTINGENCY/MOBILIZATION

- **CURRENT SUPPORT**
 - **AWACS**
 - **3RD COMBAT COMMUNICATIONS GROUP**
 - **TACAMO (NAVY)**
- **AERIAL PORT OF EMBARKATION (APOE)**
- ➔ • **GEOGRAPHIC LOCATION**
- **TWO RUNWAYS**

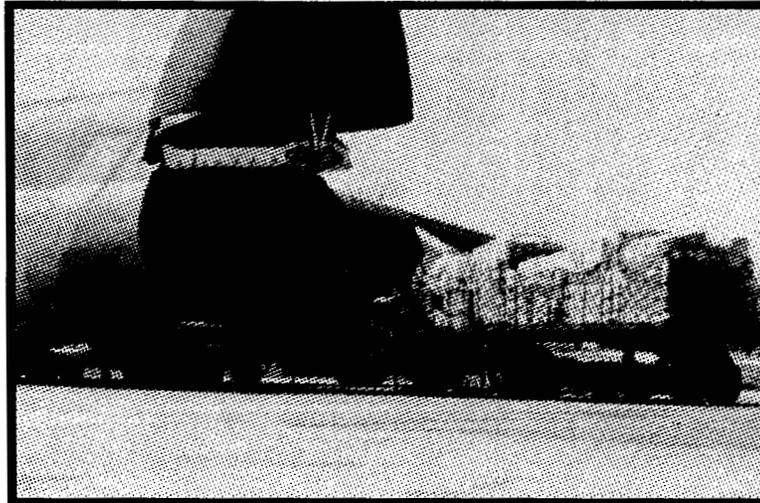


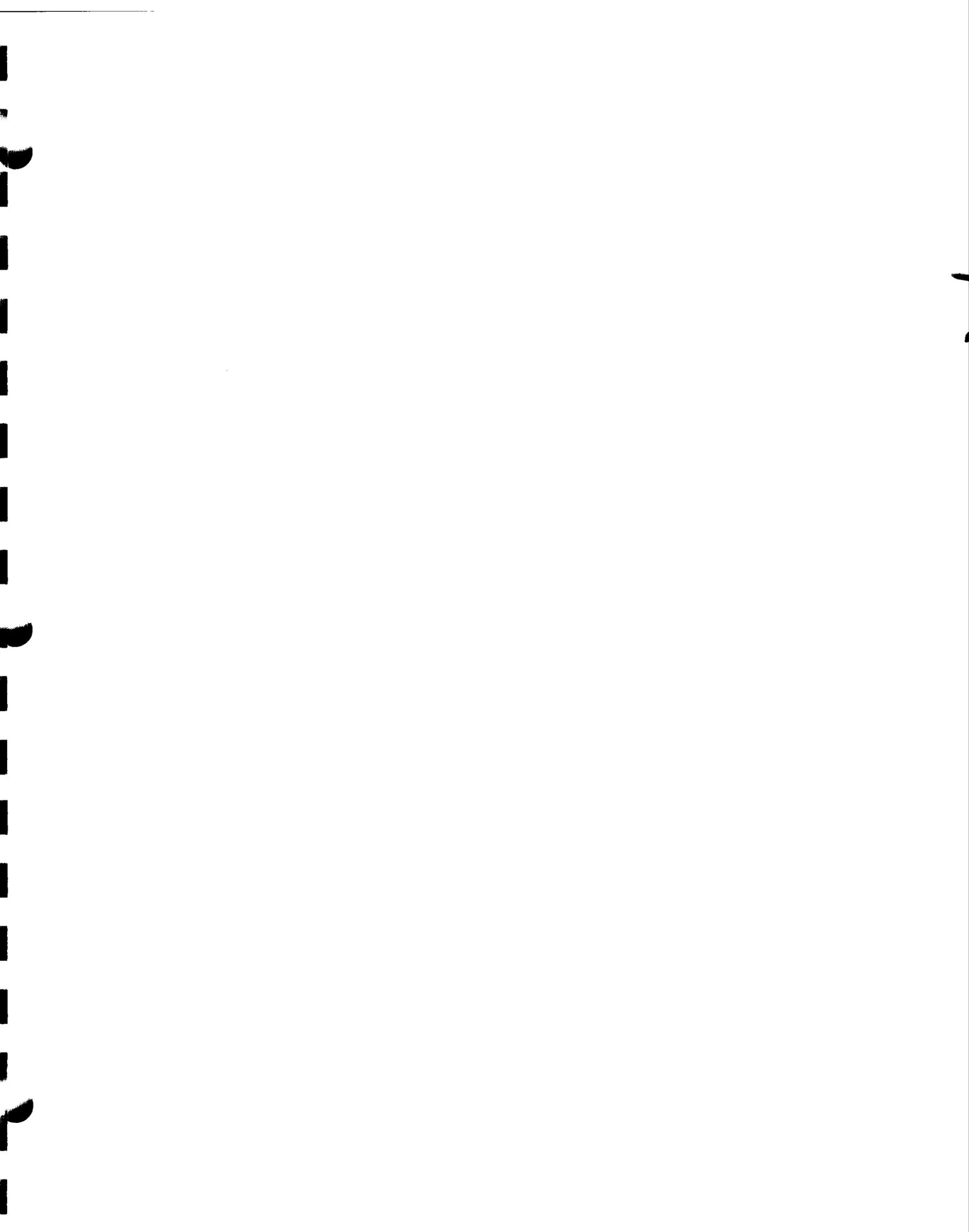
IDEAL GEOGRAPHIC LOCATION



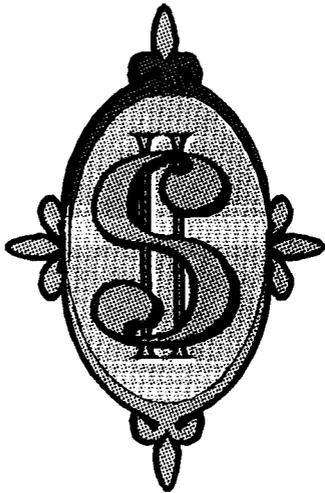
III. CONTINGENCY/MOBILIZATION

- **CURRENT SUPPORT**
 - **AWACS**
 - **3RD COMBAT COMMUNICATIONS GROUP**
 - **TACAMO (NAVY)**
- **AERIAL PORT OF EMBARKATION (APOE)**
- **GEOGRAPHIC LOCATION**
- ➔ • **TWO RUNWAYS**

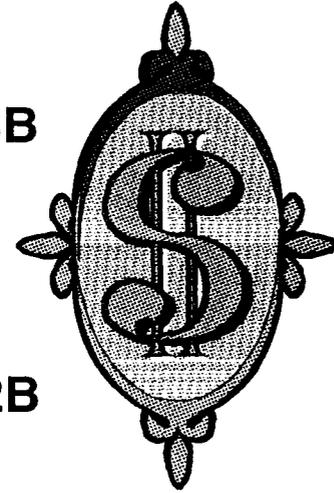


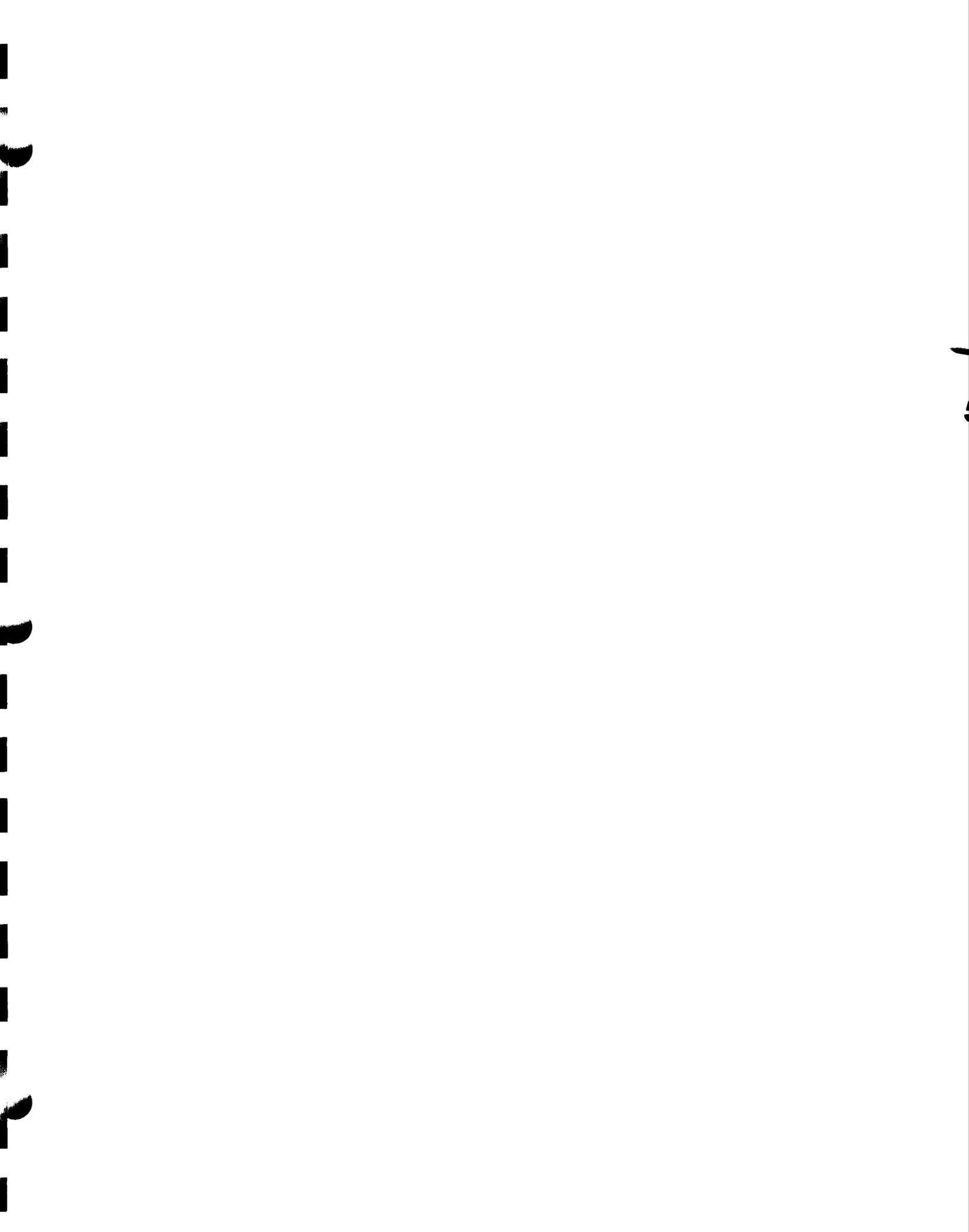


IV. CLOSURE COST/MANPOWER EFFECT



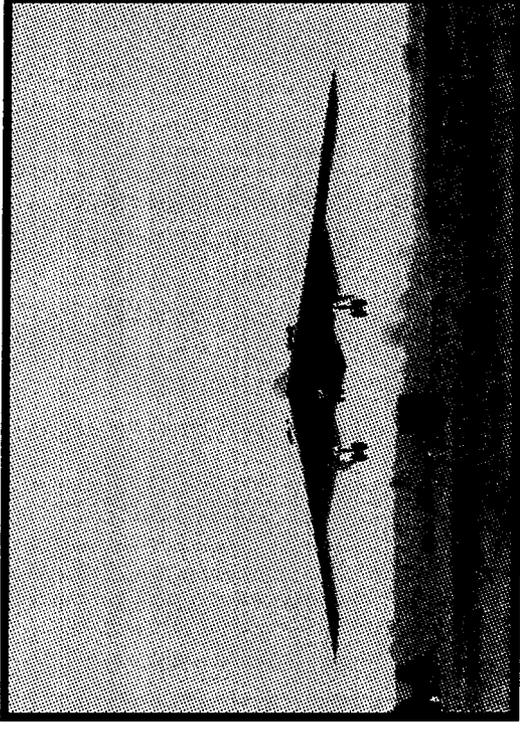
- **EXPENSIVE TO CLOSE**
 - USAF BRAC 93 ANALYSIS \$1.223B
 - AFMC 21 STUDY \$1.227B
 - USAF BRAC 95 ANALYSIS \$1.312B
- **21,301 PEOPLE TO MOVE**





V. RETURN ON INVESTMENT

- COMPETITIVE COST BASE
- - B-2 STUDY
- ENGINE CONSOLIDATION STUDY
- INVESTMENT PAYBACK

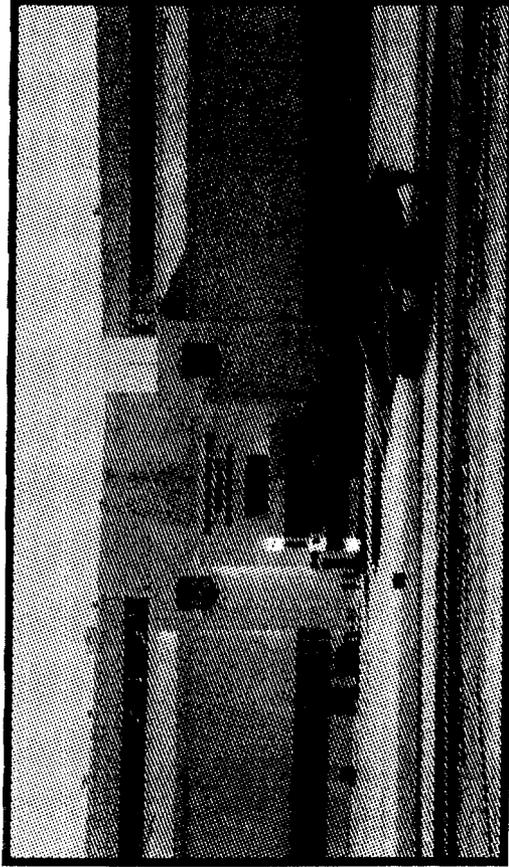




COMPETITIVE COST BASE B-2 STUDY

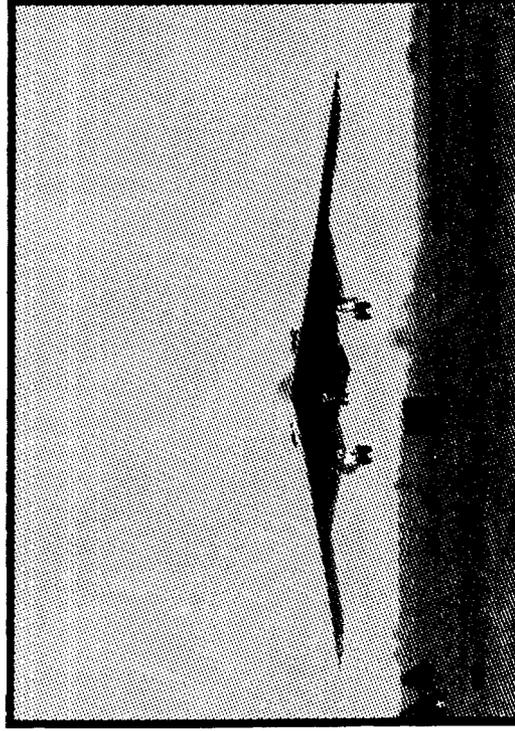


- AIR FORCE DEPOT SUPPORT PLAN
SAVINGS \$ 587M
- COOPERS AND LYBRAND (REDUCED \$439M)
SAVINGS \$ 148M



V. RETURN ON INVESTMENT

- COMPETITIVE COST BASE
 - B-2 STUDY
- - ENGINE CONSOLIDATION STUDY
- INVESTMENT PAYBACK

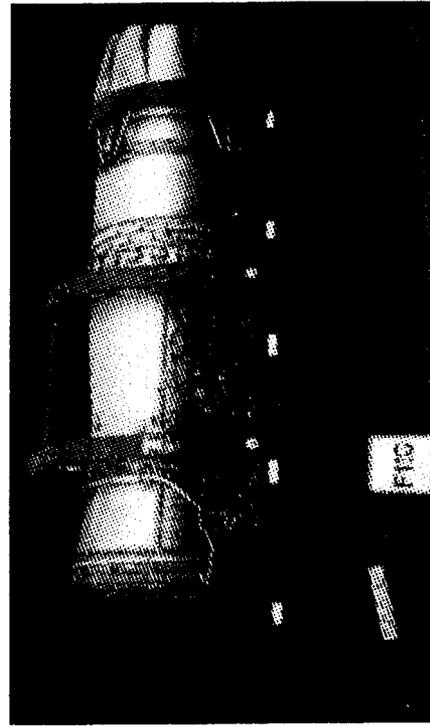
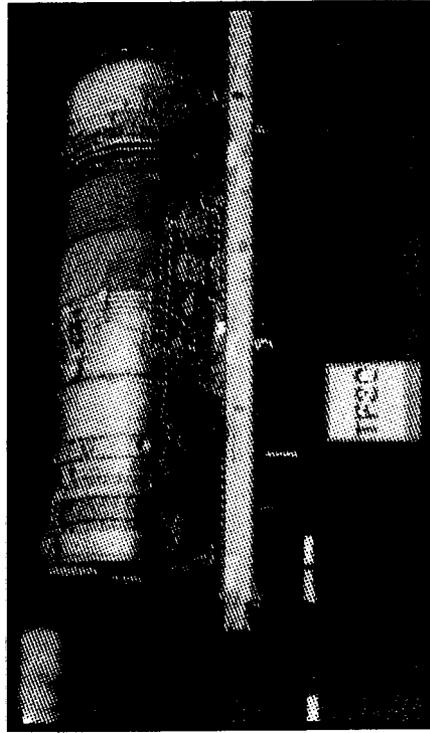




COMPETITIVE COST BASE ENGINE CONSOLIDATION STUDY

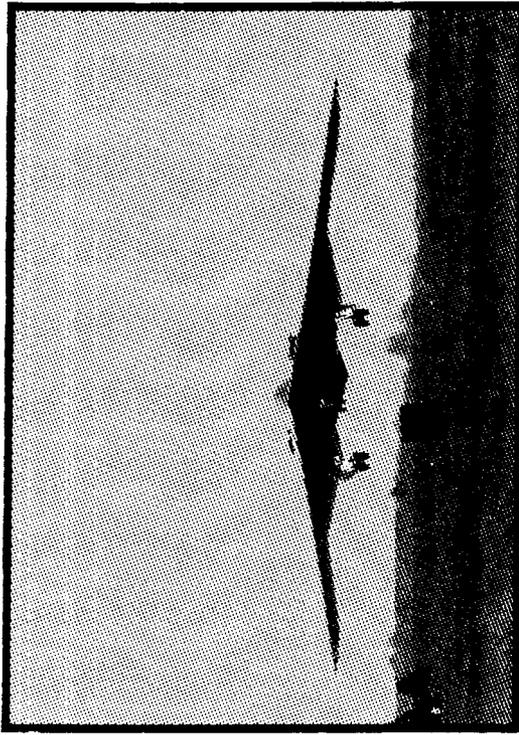


- JANUARY 1991
- TF30/F110 TO OC-ALC
- COST SAVINGS (FY92-FY95)
- \$18.3M



V. RETURN ON INVESTMENT

- COMPETITIVE COST BASE
- B-2 STUDY
- ENGINE CONSOLIDATION STUDY
- • INVESTMENT PAYBACK





INVESTMENT PAYBACK

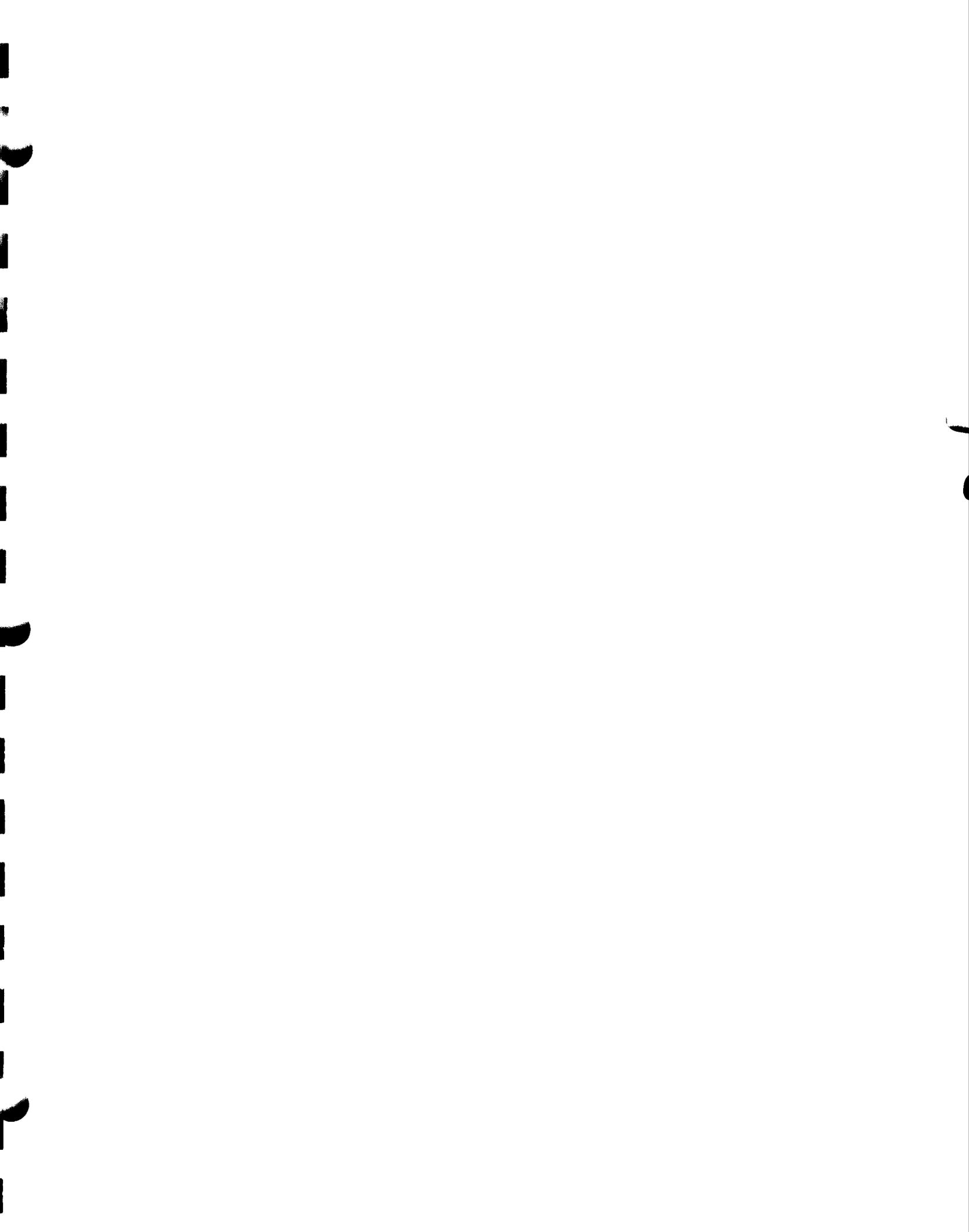


- REPRESENTS NUMBER OF YEARS FROM CLOSURE TO PAYBACK

- TINKER AFB 42 YEARS

-- USAF BRAC 95 ANALYSIS





VI. ECONOMIC IMPACT ON COMMUNITIES

SECONDARY JOBS

19,198

ECONOMIC IMPACT

\$ 2.2B

EMPLOYEES 21,301

CIVILIAN 12,551

MILITARY 8,750

TINKER CONTRACTS

\$ 188M

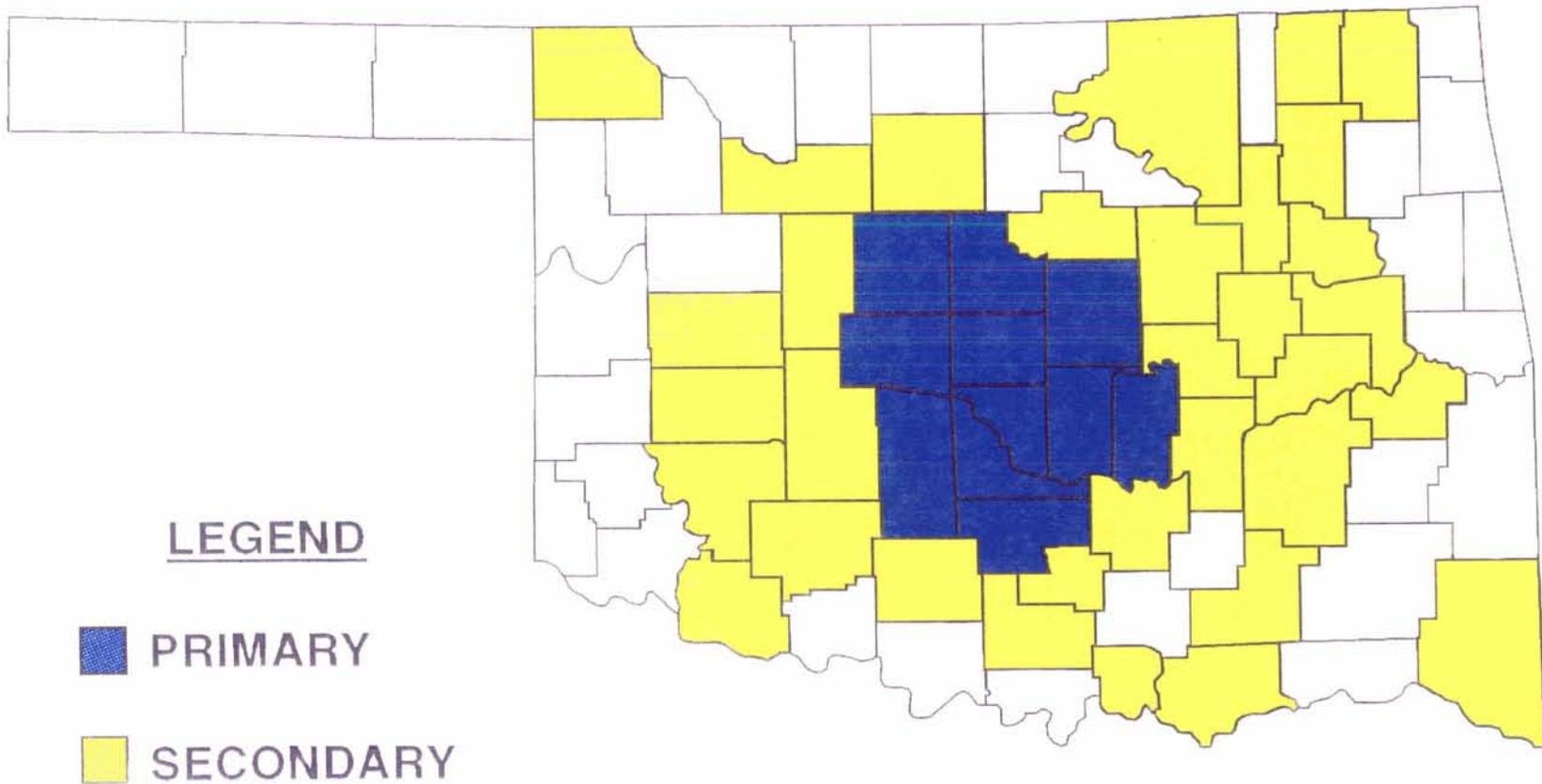
SCHOOL IMPACT

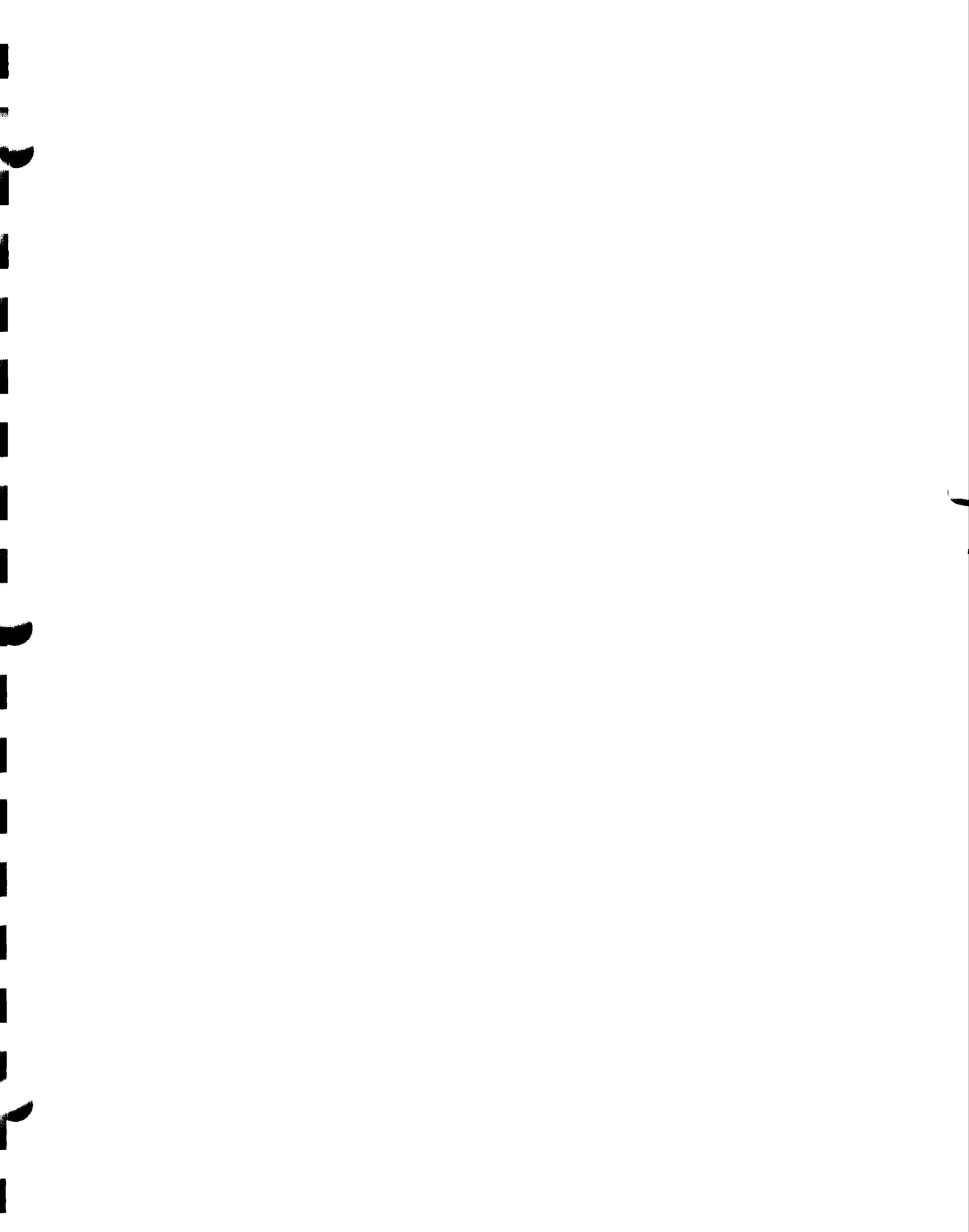
\$ 5.5M

STATE OF OKLAHOMA



TINKER'S ECONOMIC IMPACT REGION





VII. COMMUNITY INFRASTRUCTURE

- ➔ • COMMUNITY INVESTMENT CHOICE**
- TREMENDOUS EDUCATIONAL OPPORTUNITIES**
- SUPERIOR TRANSPORTATION**
 - AIRPORT**
 - INTERSTATE HIGHWAY SYSTEM CROSSROADS**
- OUTSTANDING MEDICAL FACILITIES**
- EXCELLENT JOB AVAILABILITY**
- COUNTLESS RECREATIONAL ACTIVITIES**



COMMUNITY INVESTMENT CHOICE

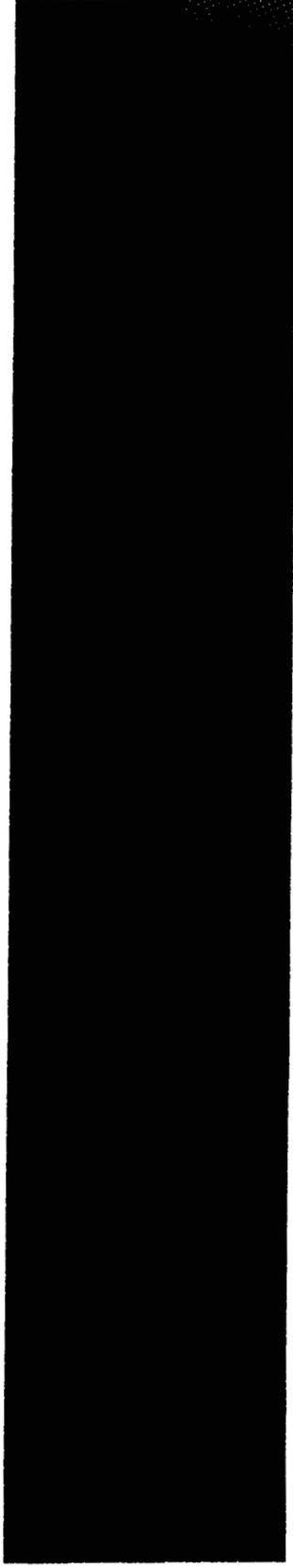
GENERAL MOTORS

KERR MCGEE

TINKER AFB

AT & T
COMPANY

DAYTON
TIRE



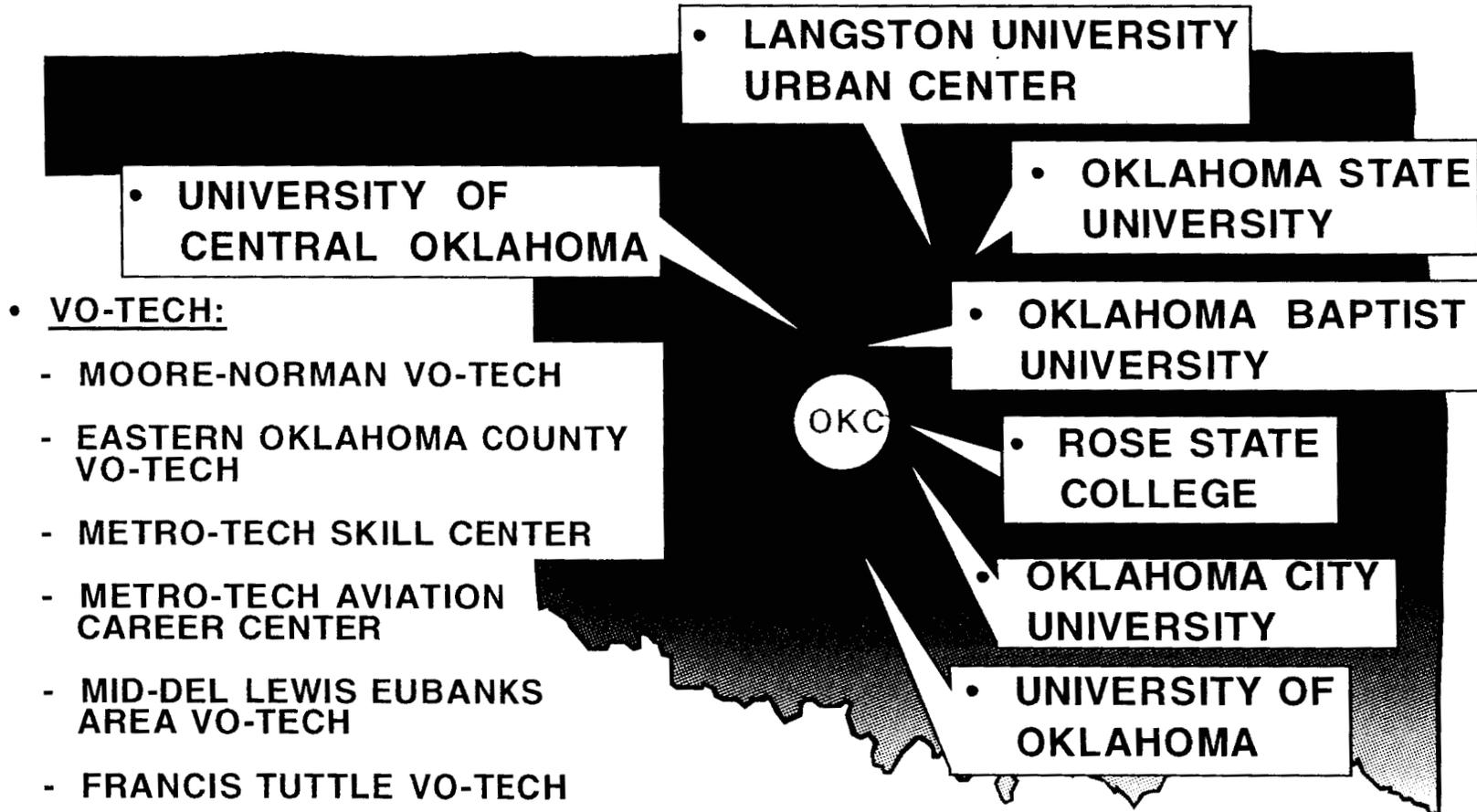
VII. COMMUNITY INFRASTRUCTURE

- COMMUNITY INVESTMENT CHOICE
- ➔ • TREMENDOUS EDUCATIONAL OPPORTUNITIES
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- EXCELLENT JOB AVAILABILITY
- COUNTLESS RECREATIONAL ACTIVITIES





EDUCATIONAL OPPORTUNITIES



ON BASE VO-TECH -- COOPERATIVE AGREEMENT
WITH STATE OF OKLAHOMA

VII. COMMUNITY INFRASTRUCTURE

- COMMUNITY INVESTMENT CHOICE
- TREMENDOUS EDUCATIONAL OPPORTUNITIES
- ➔ • SUPERIOR TRANSPORTATION
 - AIRPORT
 - INTERSTATE HIGHWAY SYSTEM CROSSROADS
- OUTSTANDING MEDICAL FACILITIES
- EXCELLENT JOB AVAILABILITY
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VII. COMMUNITY INFRASTRUCTURE

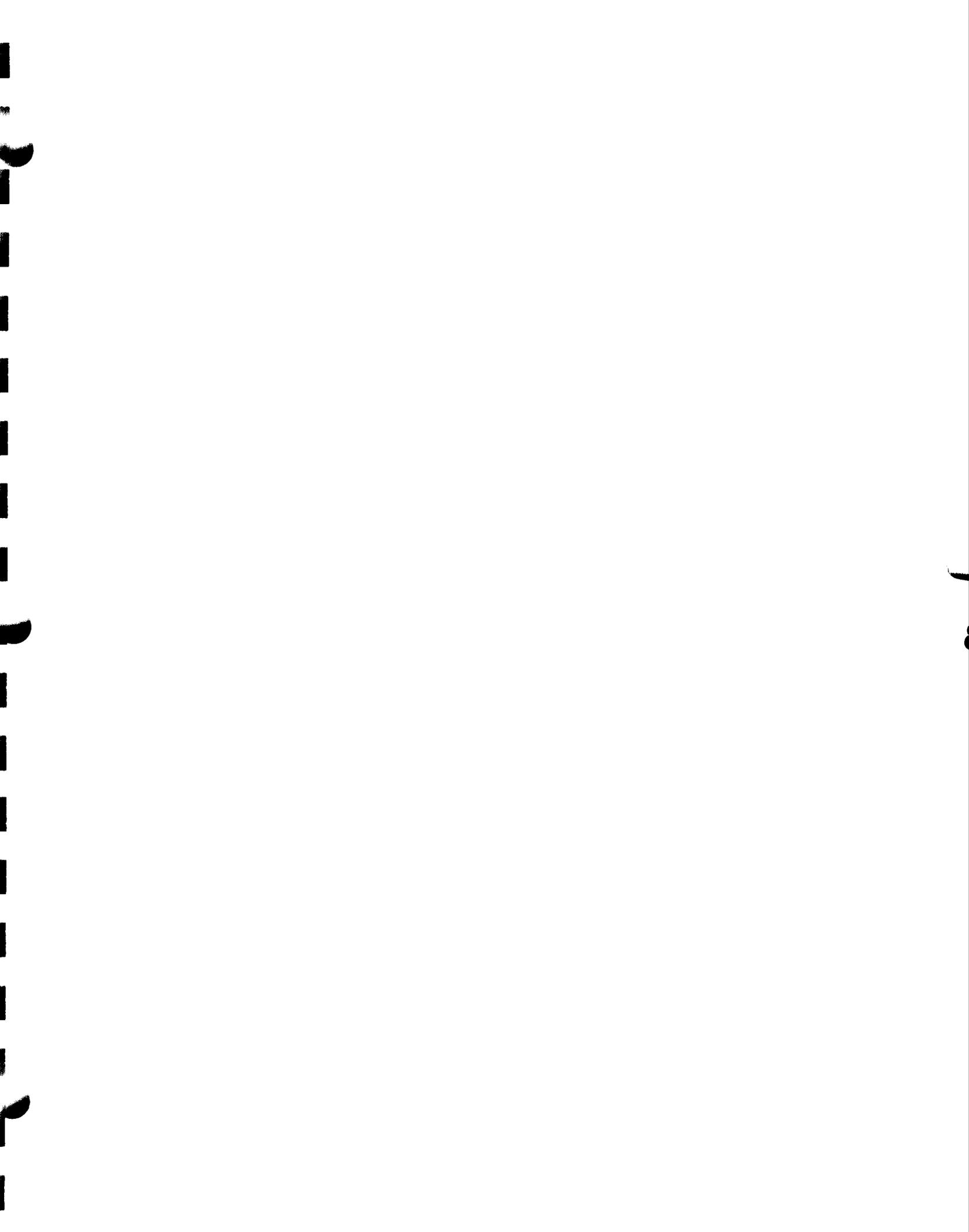
- **COMMUNITY INVESTMENT CHOICE**
- **TREMENDOUS EDUCATIONAL OPPORTUNITIES**
- **SUPERIOR TRANSPORTATION**
 - **AIRPORT**
 - **INTERSTATE HIGHWAY SYSTEM CROSSROADS**
- ➔ • **OUTSTANDING MEDICAL FACILITIES**
- **EXCELLENT JOB AVAILABILITY**
- **COUNTLESS RECREATIONAL ACTIVITIES**

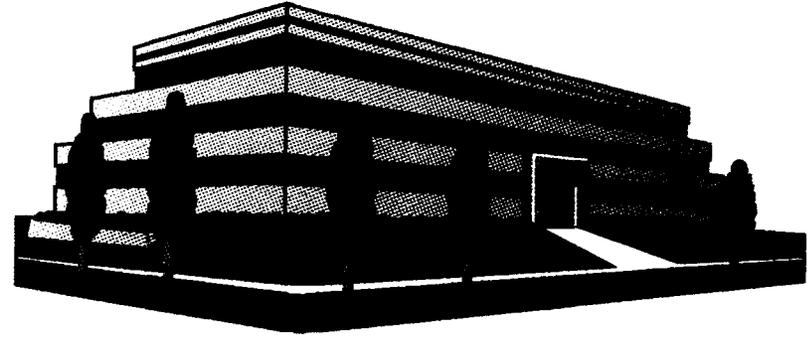


VII. COMMUNITY INFRASTRUCTURE

- **COMMUNITY INVESTMENT CHOICE**
- **TREMENDOUS EDUCATIONAL OPPORTUNITIES**
- **SUPERIOR TRANSPORTATION**
 - **AIRPORT**
 - **INTERSTATE HIGHWAY SYSTEM CROSSROADS**
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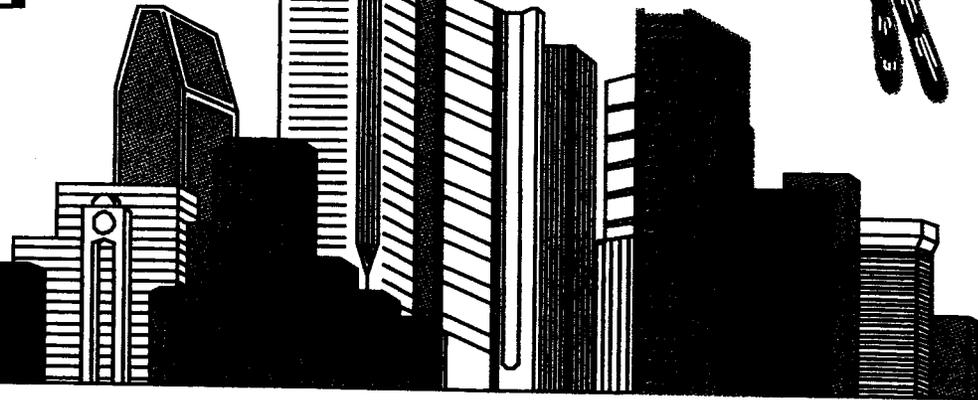
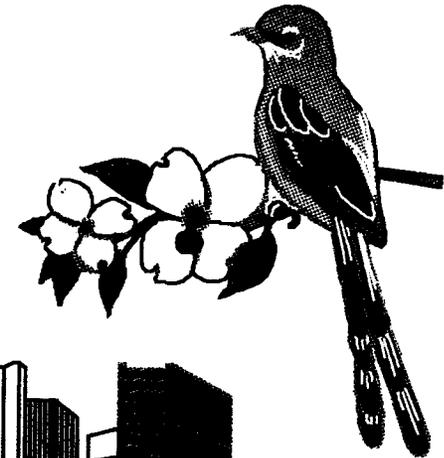
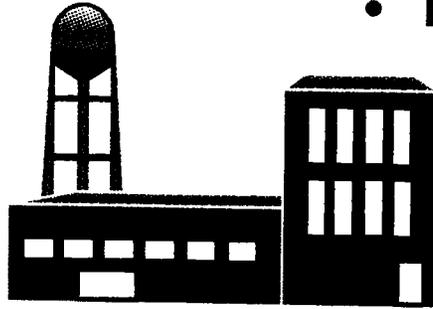




VIII. ENVIRONMENTAL IMPACT

➔ • ACCOMPLISHMENTS

• IMPACT





ENVIRONMENTAL ACCOMPLISHMENTS



- TINKER AFB HAS RECEIVED 38 ENVIRONMENTAL AWARDS SINCE 1990
- MAJOR ENVIRONMENTAL AWARDS
 - 1990 SECRETARY OF DEFENSE ENVIRONMENTAL QUALITY AWARD (DoD)
 - 1991 GENERAL THOMAS D. WHITE ENVIRONMENTAL RESTORATION AWARD (AF)
 - 1992 GENERAL THOMAS D. WHITE NATURAL RESOURCES CONSERVATION AWARD (AF)



ENVIRONMENTAL ACCOMPLISHMENTS (CONT'D)



- **MAJOR ENVIRONMENTAL AWARDS (CONT'D)**
 - **1993 NATIONAL INSTITUTE FOR URBAN
WILDLIFE OUTSTANDING CONSERVATION
AWARD**
 - **1994 DAN J. MACER AWARD
(OU COLLEGE OF PUBLIC HEALTH)**
 - **1994 SECRETARY OF DEFENSE POLLUTION
PREVENTION AWARD (DoD)**



ENVIRONMENTAL ACCOMPLISHMENTS (CONT'D)

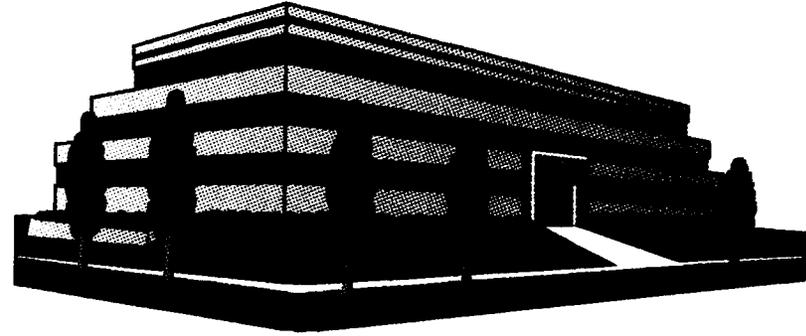


- MAJOR ENVIRONMENTAL AWARDS (CONT'D)
 - 1994 RENEW AMERICA NATIONAL AWARD
FOR ENVIRONMENTAL SUSTAINABILITY --
TINKER AFB LEAD PAINT TESTING PROGRAM

**1994 RENEW AMERICA
NATIONAL AWARD**



TINKER AIR FORCE BASE OKLAHOMA

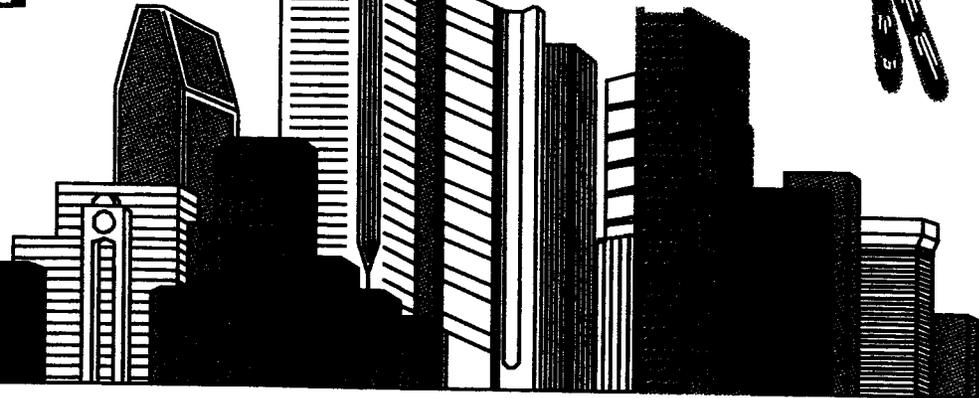
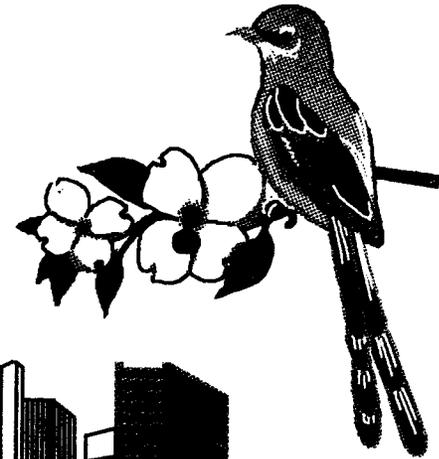
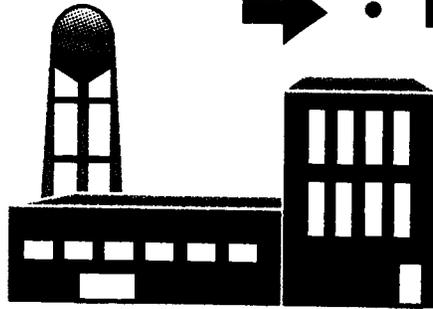


VIII. ENVIRONMENTAL IMPACT

- ACCOMPLISHMENTS



- IMPACT





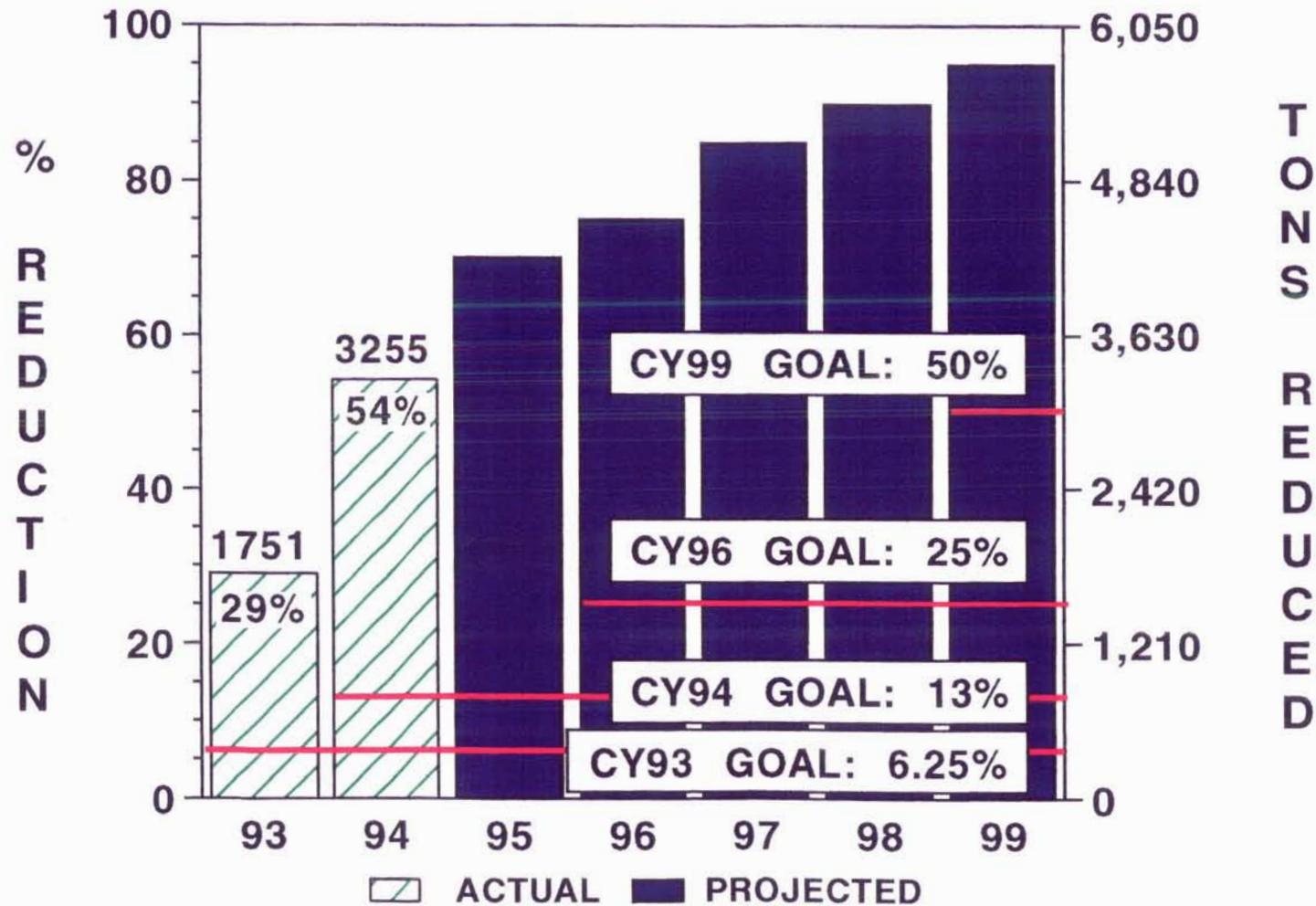
ENVIRONMENTAL IMPACT MEASURES OF SUSTAINABILITY



- **RECEIPT OF ENFORCEMENT ACTIONS - NONE**
(APPROX. 4 YRS)
- **AIR CREDITS REQUIRED - NONE**
 - OPERATIONS
 - EXPANSION
- **REDUCTION GOALS - EXCEEDED**
 - HAZARDOUS WASTE DISPOSED
 - ODS PURCHASES
 - EPA-17 PURCHASES

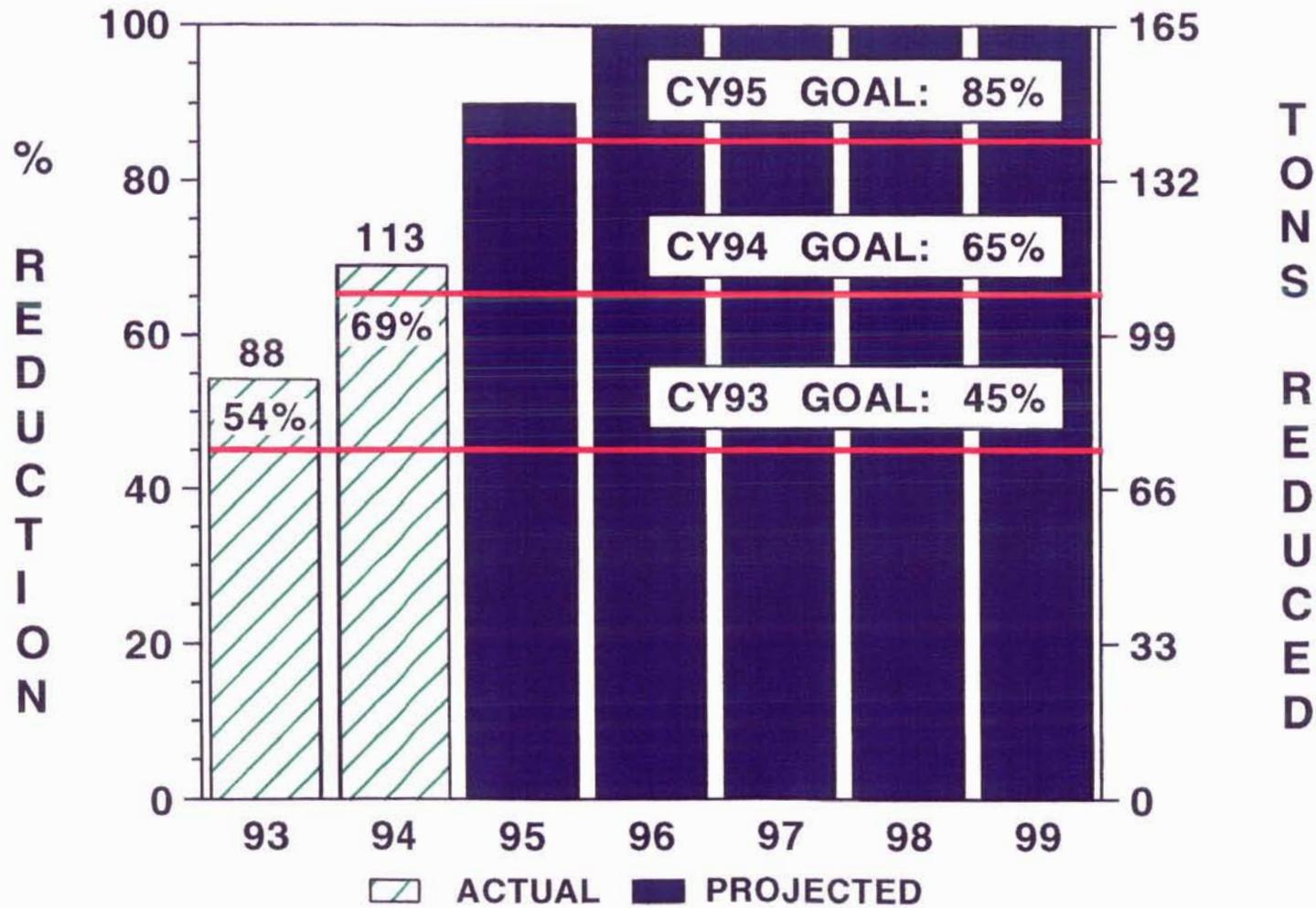


ENVIRONMENTAL IMPACT HAZARDOUS WASTE REDUCTION (WASTE DISPOSED)



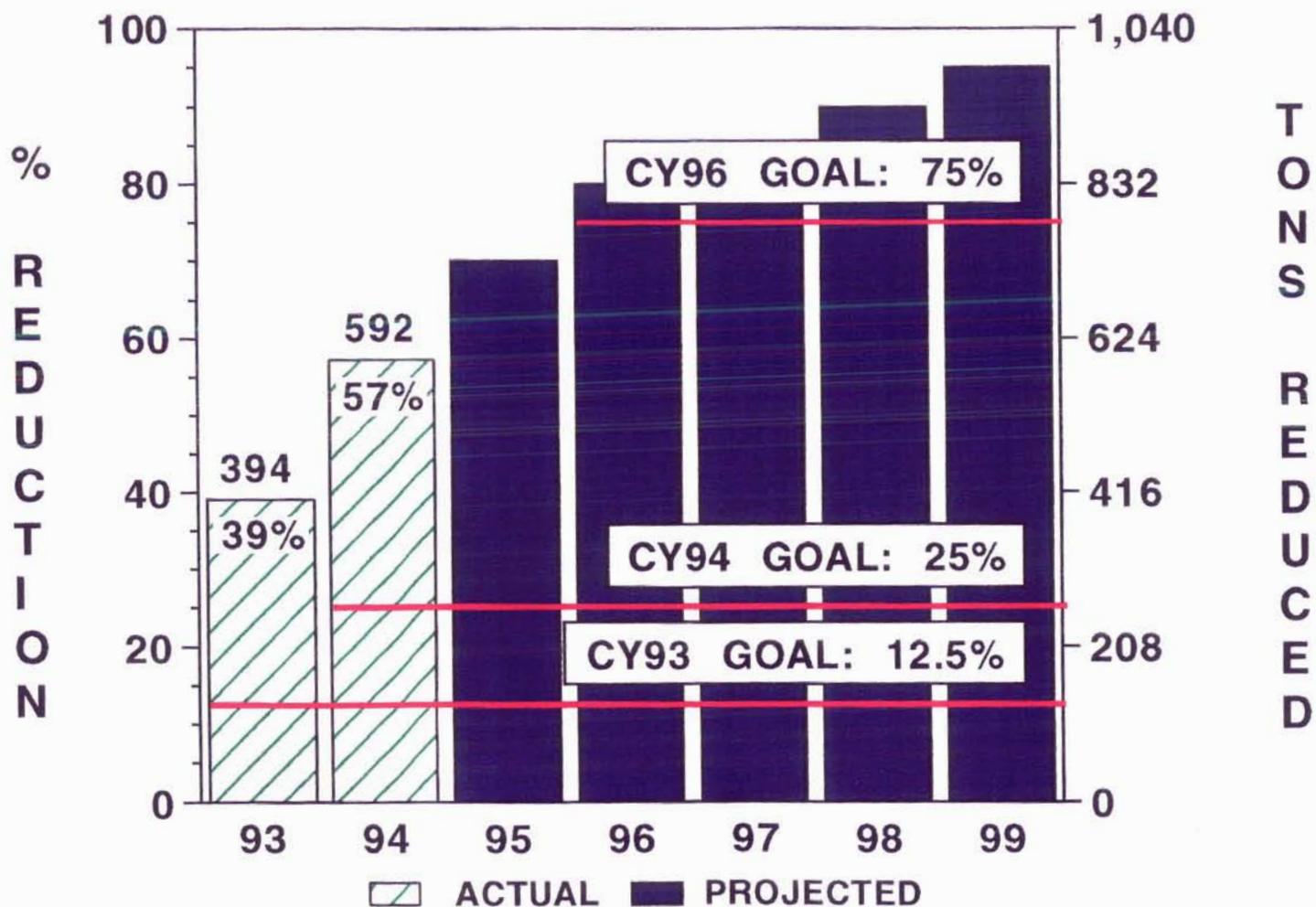


ENVIRONMENTAL IMPACT OZONE DEPLETING SUBSTANCES (ODS) REDUCTION IN PURCHASES





ENVIRONMENTAL IMPACT EPA-17 REDUCTION IN PURCHASES



Tinker AFB Comprehensive Land Use Plan

