



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
CENTRAL REGION, U.S. ARMY AUDIT AGENCY
12140 WOODCREST EXECUTIVE DRIVE
ST. LOUIS, MISSOURI 63141-3046



SAAG-CER (36-5e)

08 AUG 1994

MEMORANDUM FOR Commander, U.S. Army Aviation Technical Test Center, ATTN: Test Support Directorate, Plans and Security Division (Mr. Roy Miller), Fort Rucker, Alabama 36362-5276

SUBJECT: Review of Data Furnished to DOD Cross-Service Work Groups -- INFORMATION MEMORANDUM CR 94-707

1. **Introduction.** This is the report on our review of the data your command provided for the test and evaluation data call for the DOD cross-service work group. The Director of Management requested the review. We will include results in this report in a summary report to higher levels of management.

2. **Objectives and Scope.** The overall objective of our review was to evaluate the accuracy of data the Army furnished DOD cross-service work groups. Our specific objectives were to determine whether data furnished was:

- Accurate.
- Supported by reasonable documentation.
- In accordance with cross-service work group, DA, and major command guidance.

We made the review during June and July 1994. In most material respects, we made the review in accordance with generally accepted government auditing standards. And accordingly, we tested internal controls to the extent we considered necessary under the circumstances. We didn't follow certain aspects of the fieldwork and reporting standards. In our opinion, however, not following those standards had no material effect on the results of our review.

To evaluate the accuracy of data furnished DOD cross-service groups, we:

- Reviewed cross-service work group, DA, and major command guidance and compared it with procedures used by U.S. Army Aviation Technical Test Center personnel to respond to the cross-service group data call.

- Interviewed personnel from the center's Test Support Directorate and Public Works Directorate, who helped prepare, review, and validate responses to the data elements.
- Tracked responses to data elements to supporting documentation including aeronautical charts, technical bulletins, physical descriptions, architectural and engineering drawings, accounting databases, and our own database files compiled on the center's raw data.
- Tested the accuracy of selected source documentation.
- Verified calculations of data values.

3. Background.

a. **Cross-Service Work Groups.** The Defense Base Closure and Realignment Act of 1990, as amended, provides DOD a means to make needed adjustments to the installation structure. Deputy Secretary of Defense 1995 Base Realignment and Closure guidance memorandum dated 7 January 1994 established several Office of the Secretary of Defense-led study groups to evaluate opportunities for cross-service Base Realignment and Closure actions. Those work groups focus on:

- Medical treatment facilities and graduate medical education centers.
- Test and evaluation facilities.
- Laboratory facilities.
- Undergraduate pilot training.
- Military depot maintenance activities.
- Economic impact.

Each of the work groups prepared a data call requiring activities to provide general information needed to assess and identify cross-service opportunities.

b. **Army Process.** The Chief of Staff, United States Army issued a 21 March 1994 memorandum implementing Office of the Secretary of Defense guidance and providing procedural instructions for Army data calls. Army guidance required responses from each activity identified in the cross-service data calls. Activities were to furnish these responses to their major commands. The major commands

provided certified data to the Army Basing Study Office. The Army Basing Study Office was to then provide data to each of the cross-service work groups. This memorandum addresses your command's response to the Army Basing Study Office for the test and evaluation data call.

c. **Test and Evaluation Data Call.** The test and evaluation data call consisted of 94 data elements. The data elements included a mix of objective and subjective information about the center's mission, workload, and facilities. These questions were developed by the cross-service group to identify excess capacity and other cross-service opportunities.

The center reports to U.S. Army Test and Evaluation Command which was subordinate to Army Materiel Command. We evaluated the accuracy and supporting documentation for 22 of the 94 data elements. We reviewed the 22 data elements that focused on excess capacity, workload, and facilities.

4. **Results of Review.** Overall, data provided by the center was generally accurate. The center reported accurate data for 15 of 22 elements and the following results for the other elements:

- Data reported on the data call was found to be inaccurate for three elements.
- Data responses were revised for three elements after initial conferences with Army Audit. (Note: We did not view these responses as inaccurate, but as differences in interpretations.)
- One data element was determined to have insufficient supporting documentation.

Details on the elements we reviewed and differences noted are in the annex. Conclusions on specific objectives follow:

a. **Accuracy of Reported Data.** The center reported accurate data for 15 of the 22 elements we reviewed. Reported data for seven elements included errors, omissions, or interpretation differences.

(1) **Accurate Data.** The center reported accurate data for 15 of the elements we reviewed. We didn't identify any discrepancies in data reported for:

- Forecasted workload by program element (2.1.B.1.).
- Forecasted workload by functional areas (2.1.B.2.).
- Specified role in approved war plan (2.3.A.).
- Limitations imposed by environmental/encroachment considerations (3.1.C.1.).
- Test missions canceled due to commercial use, public use, or encroachment (3.1.C.5.A. and 3.1.C.6.).
- Facility equipped for secured operations (3.1.E.3.).
- Description of topography, ground cover and vegetation (3.1.H.1.).
- Test restrictions due to bad weather (3.1.H.10.).
- Description of airfield and support facilities (3.2.B.1.).
- Types of air vehicle testing that can be supported (3.2.C.1.).
- Maximum number of simultaneous missions requiring telemetry that can be performed (3.2.C.6.).
- Maximum number of simultaneous threats that can be simulated (3.3.A.2.).
- Size, weight, or other limitation on test operations the facility can support (3.3.B.1.).
- Type of directed energy weapons tested (3.4.A.1.).
- Area (square miles) available for the testing of rockets, missiles, and bomb systems (3.4.B.1.A.).

(2) **Inaccurate Data.** Data reported for three elements included mistakes.

- Capital improvements underway or approved for 1995 5-year development plan (3.1.E.4.).
- Air, land, and sea space (square miles) available to support test operations (3.1.G.1.).
- Maximum straight-line segment in air space (nautical miles) (3.1.G.7.).

(3) **Interpretation Differences.** Data was reported for three elements that were subsequently revised by command. Command had interpreted the data call requirements differently than Army Audit personnel. After our initial meeting, command agreed with our interpretation and revised the data call.

- Facility Condition (MV II) - Measure of Merit. Replacement cost of installation (3.1.B.).
- Special aspect of installation that would allow for an expansion of missions performed (3.1.E.1.).
- Availability of airspace, land, or water areas adjacent to areas under DOD control (3.1.E.2.).

b. **Supporting Documentation.** The center maintained sufficient supporting documentation for 21 of the elements reviewed. At our request, additional documentation is being accumulated to support responses for one of the elements reviewed -- unconstrained capacity (2.2.A.).

c. **Compliance With Cross Service, DA, and Major Command Guidance.** Generally, the center gathered and reported data consistent with cross-service work group, DA, and major command guidance. The center complied with all upper level guidance when responding to the data call. In addition, the center's commander certified that the data was accurate to the best of his knowledge.

5. **Discussion of Results.** We discussed the results of our review with Mr. Roy L. Miller, Chief of Plans and Security Division on 1 July 1994. He agreed with our conclusions and said that action had been or would be taken to correct and retransmit inaccurate data element responses to Test and Evaluation Command. This report isn't subject to the official command-reply process.

6. Thank you for the courtesies and cooperation extended to us during the review.


RAYMOND L. MCCAULLEY
Regional Auditor General

CF:
Inspector General, Department of Defense
Army Basing Study Office
U.S. Army Test and Evaluation Command

Audit of Data Furnished to DOD Cross-Service Work Groups
 BRAC 95 - Data Call No. 7
 U.S. Army Aviation Technical Test Center (ATTC)
 Cairns Army Airfield
 Fort Rucker, Alabama

Ref. No.	Datacall Ref.	Data Call Description	ATTC Initial Response	USAAA Verified	Explanation of Difference
1.	2.1.B.1	Forecasted Workload	Air Vehicles - 36 Armament Weapons - 7 Electronic Combat - 8	Air Vehicles - 36 Armament Weapons - 7 Electronic Combat - 8	No differences noted
2.	2.1.B.2.	Work Years by Functional Areas	FY 1992 - 293 FY 1993 - 295	FY 1992 - 293 FY 1993 - 295	No differences noted
3.	2.2.A.	Unconstrained Capacity	10,663 Missions	----	Unable to verify data
4.	2.3.A.	Does facility have a specified war-time or contingency role, established and approved.	Yes - included in TECOM approved war-plans	Yes (modified) - ATTC is included in - U.S. Army Aviation Development Test Activity Dated August 1983.	Document needs to be updated to reflect new title of organization
5.	3.1.B.	Facility Condition (MV II) - Measure of Merit (Replacement Costs)	\$15.0 Million	\$33.7 Million	initial response did not include infrastructure such as roadways, parking, flight support assets
6.	3.1.C.1.	List current or future potential environmental/encroachment impacts on air, land and sea space for testing.	None	None	No differences noted
7.	3.1.C.5.A. 3.1.C.6.	Test Missions per year that are cancelled due to commercial or public use. Test Missions cancelled during the last two years due to encroachment	None	None	No differences noted

Audit of Data Furnished to DOD Cross-Service Work Groups
 BRAC 95 - Data Call No. 7
 U.S. Army Aviation Technical Test Center (ATTC)
 Calms Army Airfield
 Fort Rucker, Alabama

Ref. No.	Datacall Ref.	Data Call Description	ATTC Initial Response	USAAA Verified	Explanation of Difference
8.	3.1.E.1.	List special aspects of installation that enhance its' ability to expand output within each functional area.	None	<ul style="list-style-type: none"> * Infrastructure exists to nearly double aircraft and personnel strength * Additional types of aircraft can be supported. * Adjacent land is available for expansion if required. 	ATTC's original interpretation of data call did not allow for "what if" scenarios.
9.	3.1.E.2.	Are airspace, land and water areas adjacent to areas under DoD control--available or suited for physical expansion?	No.	Yes - all of the area adjacent to Calms Army Airfield is rural property that is suitable for expansion	ATTC's original interpretation of the data call did not allow for "what if" scenarios.
10.	3.1.E.3.	Is the facility equipped to support secure operations - If yes, to what level?	Yes. Secret Classification	Yes. Secret Classification	No differences noted.
11.	3.1.E.4.	Are there any capital improvements underway or programmed for 95 FYDP?	No.	Yes - A hangar expansion program is underway at present.	ATTC made a mistake when they filled out initial data call.
12.	3.1.G.1.	How many square miles of air, land and sea space are available to support test operations?	43,440 square miles	49,390 square miles	When we computed the square mileage of the Fort Rucker Alert Area we computed an additional 5,950 square miles. ATTC agreed.

Audit of Data Furnished to DOD Cross-Service Work Groups
 BRAC 95 - Data Call No. 7
 U.S. Army Aviation Technical Test Center (ATTC)
 Cairns Army Airfield
 Fort Rucker, Alabama

Ref. No.	Datacall Ref.	Data Call Description	ATTC Initial Response	USAAA Verified	Explanation of Difference
13.	3.1.G.7.	What is the maximum straight-line segment in your airspace? Expressed in nautical miles.	105 nautical miles	230 nautical miles	The initial computation used a chart that did not portray the entire Fort Rucker approved airspace. During the audit, we used a chart that represented the space noted in USAAVNC Reg 95-2. This space had a 230 mile st-line segment.
14.	3.1.H.1	Describe the topography and ground cover/vegetation within your test airspace. Include "nap-of-the-earth" capability.	<ul style="list-style-type: none"> * Typical of earth's environment * Riverain, forested areas * Open cultivated land * rolling terrain, swamp areas * winding river bottoms * conducive to "nap-of-the-earth" operations. 	<ul style="list-style-type: none"> * Typical of earth's environment * Riverain, forested areas * Open cultivated land * rolling terrain, swamp areas * winding river bottoms * conducive to "nap-of-the-earth" operations. 	No differences noted.
15.	3.1.H.10.	What percentage of time are your test operations restricted due to bad weather?	Approximately 12% per year	Approximately 12% per year	No differences noted.

Audit of Data Furnished to DOD Cross-Service Work Groups
 BFAC 95 - Data Call No. 7
 U.S. Army Aviation Technical Test Center (ATTC)
 Calma Army Airfield
 Fort Rucker, Alabama

Ref. No.	Datacall Ref.	Data Call Description	ATTC Initial Response	USAAA Verified	Explanation of Difference
16.	32.B.1.	Provide a brief description of your airfield and support facilities. Include the following: * Number and azimuth of runways * Elevation * Runway length * Over-run length * Terminal and/or landing aids * Arresting cable * Ramp area (Square feet) * Construction materials (runways and ramps) * Load capability * Hangar space	<ul style="list-style-type: none"> * Two (2) Runways * Elevation - * Length - 4,500 feet 5,000 feet * Over-runs - 500 feet each * Runway "A" azimuth 60 degrees and 240 degrees * Runway "B" azimuth 180 degrees and 360 degrees * The airfield has a terminal and the following landing aids: - Instrument Landing System (ILS) - Non-Directional Beacon (NDB) - Very High Frequency Omni (VOR) - Ground controlled approach * Facility does not have an arresting cable. * Construction materials: - Ramp (asphalt) - Parking pads (concrete) - Runways (concrete) * Load capability - C-141 capable * Hangar space - 	<ul style="list-style-type: none"> * Two (2) Runways * Elevation - 298 MSL * Length - 4,500 feet 5,000 feet * Over-runs - 500 feet each * Runway "A" azimuth 60 degrees and 240 degrees * Runway "B" azimuth 180 degrees and 360 degrees * The airfield has a terminal and the following landing aids: - Instrument Landing System (ILS) - Non-Directional Beacon (NDB) - Very High Frequency Omni (VOR) - Ground controlled approach * Facility does not have an arresting cable. * Construction materials: - Ramp (asphalt) - Parking pads (concrete) - Runways (concrete) * Load capability - C-141 capable * Hangar space - 109,230 sq ft 	The only differences noted were the omission of field elevation (298 MSL) and hangar space (109,230 sq ft) ATTC has been informed of this omission and will modify response.

02/10/95

Audit of Data Furnished to DOD Cross-Service Work Groups
 BRAC 95 - Data Call No. 7
 U.S. Army Aviation Technical Test Center (ATTC)
 Cahaba Army Airfield
 Fort Rucker, Alabama

Ref. No.	Data Call Ref.	Description	ATTC		Explanation of Differences
			Initial Response	USAAA Verified	
17.	32.C.1.	What types of air vehicle testing can be supported?	<ul style="list-style-type: none"> Performance Handling qualities Physical integration with external stores or avionics Systems integration Aircraft survivability equipment Reliability, maintainability and availability. Rotary wing cannons Rockets and missiles (except Hellfire) 	<ul style="list-style-type: none"> Performance Handling qualities Physical integration with external stores or avionics Systems integration Aircraft survivability equipment Reliability, maintainability and availability. Rotary wing cannons Rockets and missiles (except Hellfire) 	No differences noted.
18.	32.C.6.	What is the maximum number of simultaneous missiles you can support that require telemetry?	Two (2).	Two (2).	No differences noted.
19.	33.A.2.	How many simultaneous threats can be supported?	Not applicable to this installation	Not applicable to this installation	No differences noted.
20.	33.B.1.	Is there a size, weight or other limitation on test operations this facility can support?	Not applicable to this installation	Not applicable to this installation	No differences noted.
21.	34.A.1.	Do you currently test directed energy weapon systems?	No.	No.	No differences noted.
22.	34.B.1.A.	What is the area in square miles which you can use to conduct tests of live rocket, missile or bomb systems	Not applicable to this installation	Not applicable to this installation	No differences noted.

Document Separator



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CENTRAL REGION, U.S. ARMY AUDIT AGENCY
12140 WOODCREST EXECUTIVE DRIVE
ST. LOUIS, MISSOURI 63141-5046



REPLY TO
ATTENTION OF

SAAG-CER (36-5e)

04 AUG 1994

MEMORANDUM FOR Commander, U.S. Army Aeromedical Research
Laboratory, ATTN: SGRD-UAC-E
(Dr. Kimball), P.O. Box 577, Building 6901,
Fort Rucker, Alabama 36362-0577

SUBJECT: Review of Data Furnished to DOD Cross-Service Work
Groups -- INFORMATION MEMORANDUM CR 94-708

1. **Introduction.** This is the report on our review of the data the U.S. Army Aeromedical Research Laboratory provided for the laboratory data call for the DOD cross-service work group. The Director of Management requested the review. We will include results in this report in a summary report to higher levels of management.

2. **Objectives and Scope.** The overall objective of our review was to evaluate the accuracy of data the Army furnished DOD cross-service work groups. Our specific objectives were to determine whether data furnished was:

- Accurate.
- Supported by reasonable documentation.
- In accordance with cross-service work group, DA, and major command guidance.

We made the review during June and July 1994. In most material respects, we made the review in accordance with generally accepted government auditing standards. And, accordingly, we tested internal controls to the extent we considered necessary under the circumstances. We didn't follow certain aspects of the fieldwork and reporting standards. In our opinion, however, not following those standards had no material effect on the results of our review.

To evaluate the accuracy of data furnished DOD cross-service groups, we:

- Reviewed cross-service work group, DA, and major command guidance and compared it with procedures used by U.S. Army Aeromedical Research Laboratory personnel to respond to the cross-service group data call.

- Interviewed personnel from the Directorate of Programs and Plans who helped prepare, review, and validate responses to the data elements.
- Tracked responses to data elements to supporting documentation including accounting systems, memorandums, monthly internal reports, and historical workload data.
- Tested the accuracy of selected source documentation.
- Verified calculations of data values.

3. **Background.**

a. **Cross-Service Work Groups.** The Defense Base Closure and Realignment Act of 1990, as amended, provides DOD a means to make needed adjustments to the installation structure. Deputy Secretary of Defense 1995 Base Realignment and Closure guidance memorandum dated 7 January 1994 established several Office of the Secretary of Defense-led study groups to evaluate opportunities for cross-service Base Realignment and Closure actions. Those work groups focus on:

- Medical treatment facilities and graduate medical education centers.
- Test and evaluation facilities.
- Laboratory facilities.
- Undergraduate pilot training.
- Military depot maintenance activities.
- Economic impact.

Each of the work groups prepared a data call requiring activities to provide general information needed to assess and identify cross-service opportunities.

b. **Army Process.** The Chief of Staff, United States Army issued a 21 March 1994 memorandum implementing Office of the Secretary of Defense guidance and providing procedural instructions for Army data calls. Army guidance required responses from each activity identified in the cross-service data calls. Activities were to furnish these responses to their major commands. The major commands provided certified data to the Army Basing Study Office. The Army Basing Study Office was then to provide data to

each of the cross-service work groups. This memorandum addresses your command's response to the Army Basing Study Office for the laboratory data call.

c. **Laboratory Data Call.** The laboratory data call consisted of 25 data elements. The data elements included a mix of objective and subjective information about the laboratory's mission, workload, and facilities. These questions were developed by the cross-service group to identify excess capacity and other cross-service opportunities.

The laboratory is a subordinate activity of U.S. Army Medical, Research, Development, Acquisition and Logistics Command. We evaluated the accuracy and supporting documentation for 21 of the 25 data elements. We didn't evaluate responses for the remaining four data elements. These four elements addressed the education, experience, accomplishments, and technical papers written by the laboratory's personnel.

4. **Results of Review.** Overall, data provided by the laboratory was generally accurate. The laboratory reported accurate data for 20 of the 21 elements we reviewed. Details on the elements and differences noted are in the annex. Conclusions on specific objectives follow:

a. **Accuracy of Reported Data.** The laboratory reported accurate data for 20 of the 21 elements we reviewed. Reported data for one element (laboratory facilities) included the following errors:

- Counted one building twice.
- Omitted one building from the list.
- Transposed figures between the source document and the data call reply.

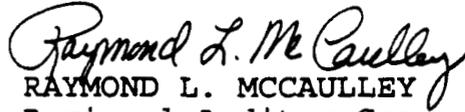
These errors were identified and corrected during our review.

b. **Supporting Documentation.** The laboratory maintained sufficient supporting documentation for all 21 elements reviewed. Documentation maintained included monthly personnel strength reports, support agreements, and program budget accounting systems documents.

c. **Compliance With Cross Service, DA, and Major Command Guidance.** Generally, the laboratory gathered and submitted data consistent with cross-service work group, DA, and major command guidance. In addition, the laboratory's commander certified that the data submitted was accurate to the best of his knowledge.

5. **Discussion of Results.** We discussed the results of our review with laboratory personnel on 30 June 1994. They agreed with our conclusions and said that actions had been taken to correct and transmit accurate data element responses to U.S. Army Medical, Research, Development, Acquisition and Logistics Command. This report isn't subject to the official command-reply process.

6. Thank you for the courtesies and cooperation extended to us during the review.


RAYMOND L. MCCAULLEY
Regional Auditor General

CF:
Inspector General, Department of Defense
Army Basing Study Office
U.S. Army Medical, Research, Development,
Acquisition and Logistics Command

LABORATORIES

SOURCE
ADEQUATE

	DATA ELEMENT	SOURCE USED	Y/N	DATA ELEMENT VALUE
1.	Workload - historic and projected at each activity (see attachment # 1)	2.1 PROGRAM BUDGET ACCT SYS STANFINS, WORK MGT SYS	Y	SEE ATTACHED DATA CALL ELEMENT 2.1
2.	Excess lab Capacity- Measured at the DOD Component Level	2.2 WORK MANAGEMENT SYSTEM DATA CALL FORMULA	Y	PEAK WORKYEARS MINUS PROJECTED FY97 WKYRS 170 - 115 = 55
3.	Mission Capabilities	3.0 SCIENCE AND TECHNOLOGY OBJECTIVES (STO)	Y	MISSIONS CLASSIFIED IN 2 PERVASIVE FUNCTIONS - HUMAN SYSTEMS - MANPOWER AND PERSONNEL
4.	Geographical/ Climatological features	3.1.1 WEATHER BUREAU	Y	FT RUCKER AREA CONDUCTIVE TO YEAR ROUND FLIGHT RESEARCH
5.	Licenses & Permits	3.1.2 LICENSE	Y	LICENSE FOR IODINE
6.	Environmental constraints	3.1.3 KNOWLEDGE	Y	NO KNOWN CONSTRAINTS
7.	Special Support Infrastructure	3.1.4 SUPPORT AGREEMENT LOCATION	Y	AVIATION CENTER PROVIDES SUPPORT INFRASTRUCTURE
8.	Proximity to Mission-Related organizations (see attachment # 1)	3.1.5 MOA,MOU,ISA LOCATION	Y	CLOSE TO AVIATION CTR, SAFETY CTR, TECH TEST CTR, AND AEROMEDICAL CTR
9.	Total Personnel (see attachment # 1)	3.2.1 MONTHLY STRENGTH RPT	Y	73 CIVILIAN, 62 MILITARY, AND 24 NON TDA SETA PERSONNEL
10.	Workyear and Lifecycle (see attachment # 1)	3.3.1.2 WORK MEASUREMENT RPT VOUCHERS	Y	78.5 CIVILIAN, 72.8 MILITARY, AND 25.7 SETA WORKYEARS
11.	Engineering Development by Acquisition Category NA	3.3.1.2 *	Y	LAB DOES NOT PROVIDE DIRECT SPT TO PRODUCT FUNCTIONS
12.	In-Service Engineering NA	3.3.1.3 *	Y	LAB DOES NO IN-SERVICE ENGINEERING IN SUPPORT OF WEAPONS SYSTEMS

* U.S. ARMY AEROMEDICAL RESEARCH LABORATORY PROVIDES
RESEARCH/EXPERT CONSULTATION TO
SUPPORT PRODUCT AND SYSTEM DEVELOPMENT
ON A REIMBURSABLE BASIS

	DATA ELEMENT		SOURCE USED	Y/N	DATA ELEMENT VALUE
13.	Direct Funding (see attachment # 1)	3.3.2.1	CMD BUDGET GUIDANCE FOR PREPARING DATA CALL	Y	SEE ATTACHED DATA CALL ELEMENT 3.3.2.1
14.	Other Obligation Authority (see attachment # 1)	3.3.2.2	MIPR DATA ON REIMB AMTS STATEMENTS OF WORK	Y	FY94 ONLY- USAARL REIMB AMOUNTS NOT ABLE TO BE IDENTIFIED IN FY95 PBS
15.	Major Equipment and Facilities (see attachment # 2)	3.4.1	ESTIMATES BASED ON HISTORICAL DATA	Y	SEE ATTACHED DATA CALL ELEMENT 3.4.1
16.	Laboratory Facilities (see attachment # 3)	3.5.1	REAL ESTATE UTILIZATION RPT	Y	USAARL OCCUPIES 9 BUILDINGS; CORRECTIONS WERE MADE TO DATA CALL FIGURES FOR 3 BLDGS
17.	Capacity to absorb additional similiar workyears categorized in the same common support function with minor facillity modifications	3.5.1.1	HISTORICAL WORKLOAD DATA	Y	ABLE TO SUPPORT 167 WORKYEARS IN FY 93 AND COULD SUPPORT THAT NUMBER WITHOUT ANY MODIFICATIONS
18.	Number of additional workyears that may be supported	3.5.1.2	ESTIMATE	Y	ESTIMATE OF 14 CONTRACT WORKYEARS BASED ON KNOWN DECREASES IN PERMANENT PERSONNEL
19.	Impact of military construction programs other alterations projects programmed in FY 1995 President's Budget Submission.	3.5.1.3	FY 95 PRESIDENT'S BUDGET SUBMISSION	Y	NO MCA CONSTRUCTION
20.	Number of buildable acres for additional laboratory/ administrative support construction at your Installation	3.5.2	DIRECTORATE OF PUBLIC WORKS RECORDS PLANIMETER MAPS	Y	FORT RUCKER HAS 5203 BUILDABLE ACRES USAARL IS A TENANT ORGANIZATION
21.	Estimate Installations capabilities to expand or procure additional utility services (electric, gas, water).	3.5.3	DIRECTORATE OF PUBLIC WORKS RECORDS	Y	USAARL- ELEC 25K KWH, WATER 675K GAL/DAY TOTAL INSTALLATION- ELEC 67K KWH WATER 6 MILLION GAL/DAY

ATTACHMENT 1					
2.1 WORKLOAD				FISCAL YEARS	
	87	88	89	90	91
PROGRAMMED FUNDS (\$M)	7.4	7.0	6.2	6.8	7.6
ACTUAL FUNDS (\$M)	5.4	5.4	5.9	6.7	7.6
PROGRAMMED WORKYEARS	153	156	167	170	164
ACTUAL WORKYEARS	167	172	186	183	172
3.1.5 PROXIMITY					
NAME	DISTANCE				
ARMY AVIATION CENTER	1 MILE				
ARMY SAFETY CENTER	1 MILE				
DIR OF COMBAT DEVELOPMENT	1 MILE				
TECHNICAL TEST CENTER	8 MILES				
AEROMEDICAL CENTER	1/2 MILE				
3.2.1 TOTAL PERSONNEL					
TYPES	CIVILIAN	MILITARY	SETA		
TECHNICAL	43	48	24		
MANAGEMENT	5	8	0		
OTHER	25	6	0		
TOTAL	73	62	24		
3.3.1.1 WORKYEAR AND LIFE CYCLE		FY93			
SCIENCE AND TECHNOLOGY	CIVILIAN	MILITARY	SETA		
HUMAN SYSTEMS	64.5	61.8	13.7		
MANPOWER AND PERSONNEL	14.0	11.0	12.0		
TOTAL	78.5	72.8	25.7		
3.3.2.1 DIRECT FUNDING (\$K)					
	FY94	FY95	FY96	FY97	
HUMAN SYSTEMS	4131	3982	3663	3663	
MANPOWER AND PERSONNEL	685	483	444	444	
TOTAL	4816	4465	4107	4107	
3.3.2.2 OTHER OBLIGATION FY94 (\$K)					
HUMAN SYSTEMS	412				
MANPOWER	SONNEL	57			

ATTACHMENT 2

4.1

FACILITY	UNIQUE TO	REPLACEMENT COST (\$K)
UH60 HELICOPTER RESEARCH SIMULATOR	U.S.	\$20,000
2 ROTARY, 1 FIXED WING RESEARCH AIRCRAFT (JUH 60, JUH 1, JU 21)	U.S.	25,000
MAN-RATED MULTI-AXIS RIDE SIMULATOR	FED GOVT	10,000
HELMET IMPACT TEST FACILITY	U.S.	2,500
ACOUSTICAL SCIENCES RESEARCH FACILITY	FED GOVT	5,000
VISUAL SCIENCES RESEARCH FACILITY	DOD	5,000
REMOTE BLAST OVERPRESSURE RESEARCH FACILITY KIRKLAND AFB, NM	U.S.	3,500
FLIGHT PERFORMANCE DATABASE AVIATION LIFE SUPPORT	U.S.	2,500
EQUIPMENT RETRIEVAL PROGRAM (LSERP) DATABASE	U.S.	2,880
AVIATION EPIDEMIOLOGY DATA REGISTER- MEDICAL FLT RECORDS	NOT UNIQUE	3,200

ATTACHMENT 3

3.5.1	LAB FACILITIES			
BLDG	TYPE OF SPACE	CURRENT	USED	EXCESS
6901	ADMIN	17.4	9.5	7.9
	TECHNICAL	74.5	74.5	0.0
	STORAGE	7.1	7.1	0.0
28150	TECHNICAL	1.2	1.2	0.0
6902	ADMIN	0.1	0.1	0.0
	TECHNICAL	13.4	13.4	0.0
	STORAGE	0.3	0.3	0.0
6904	TECHNICAL	4.2	4.2	0.0
	STORAGE	0.2	0.2	0.0
8825	TECHNICAL	2.6	2.6	0.0
	STORAGE	0.1	0.1	0.0
60112	TECHNICAL	0.1	0.1	0.0
6903	UTILITY	2.2	2.2	0.0
6905	UTILITY/STORAGE	12.0	12.0	0.0
6906	UTILITY/STORAGE	2.0	2.0	0.0



DEPARTMENT OF THE ARMY
CENTRAL REGION, U.S. ARMY AUDIT AGENCY
12140 WOODCREST EXECUTIVE DRIVE
ST. LOUIS, MISSOURI 63141-5046



REPLY TO
ATTENTION OF

SAAG-CER (36)

24 JUN 1994

MEMORANDUM FOR Commander, U.S. Army Aviation Center and
Fort Rucker, Fort Rucker, Alabama

SUBJECT: Review of the Army Basing Study - Phase I -
Installation Assessment -- INFORMATION MEMORANDUM
CR 94-705

1. **Introduction.** This is our report on the audit of installation assessments that your command did for the 1995 Army Basing Study. The Director of Management requested we make the review. We will include data in this report in a summary report to higher management levels.

2. **Objectives and Scope.** The overall objective of our review was to evaluate the accuracy of data used for assessing installation values. Specific objectives were to evaluate the:

- Appropriateness of data sources and methodologies used to obtain data values.
- Accuracy of reported data.
- Completeness of records maintained.

We made the review during May and June 1994. In most material respects, we made the review in accordance with generally accepted government auditing standards. Accordingly, we reviewed internal controls to the extent we deemed necessary under the circumstances. Our review consisted of reviewing appropriate reports, studies, maps, correspondence, and other supporting documentation that installation personnel maintained. We also conducted several interviews with installation personnel. In addition, we selectively verified the existence of ranges, buildings, and other facilities on the installation.

3. **Background**

a. **Base Closure.** The Defense Base Closure and Realignment Act of 1990 furnishes a fair process that will result in the timely closure and realignment of military installations. The Army established the Basing Study Office to manage the study process. It divided the study process into two phases. Under

Phase I, the Army performs installation assessments to assess the relative military value of its installations. Under Phase II, the Army identifies and evaluates alternatives for realignment and closure. This memorandum only addresses our review of your command's installation assessment process.

b. **Attributes.** Fort Rucker is a subordinate activity of U.S. Army Training and Doctrine Command and is categorized by the Army as a Training School Installation. Training and Doctrine Command tasked Fort Rucker to report data for 23 of 26 attributes in this category. To report data for the 23 attributes, Fort Rucker had to obtain information for 112 data elements.

4. **Review Results.** We concluded that the data the installation reported was generally accurate and reliable for the Army to use in realignment and closure analyses. We found differences in the values reported for the following attributes: Information Mission Area, Infrastructure, Reserve Training, and Work Space. All of the differences required changes to the installation assessment data that Fort Rucker reported. We present detailed results of our review of the data the installation reported in Annex A.

a. **Data Sources and Methodologies.** Responsible personnel used appropriate data sources and methodologies to obtain values for the data elements.

(1) Personnel generally used the standard data sources identified in the installation assessment guidance from the Army Basing Study Group to gather information on the data element. There were two exceptions:

(a) Personnel attempted but were unable to locate the U.S. Army Airspace Master Plan referenced by DA to validate the data for the Special Airspace attribute. They contacted the DA representative to the Federal Aviation Administration. The representative provided them with the calculations to support the size of the special airspace around Fort Rucker.

(b) Personnel did not use the information from the Headquarters Real Property Planning and Analysis System (HQRPLANS) dated 21 April 1994 to calculate the acreage around Fort Rucker because they

considered the information to be inaccurate. Instead, they measured the acreage using current maps and a Planimeter, and submitted the data to Training and Doctrine Command personnel who agreed with the new measurements.

(2) For data sources not specifically identified in the guidance, personnel used various installation databases, reports, studies, and contractor personnel to compute values for the data elements.

(3) Personnel used a spreadsheet report format the major command's headquarters provided. The format clearly showed the data elements the U.S. Army Aviation Center and Fort Rucker was required to report.

b. Accuracy of Reported Data. Command generally reported accurate data values.

(1) We reviewed the information reported by command for 112 data elements for the various attributes and found 10 differences. We classified 9 of the 10 differences as reporting errors. The remaining difference was in the Work Space attribute and was attributed to a typographical error; we verified that the data which comprised the total was valid. The 9 differences classified as reporting errors were in three attributes--Information Mission Area, Infrastructure, and Reserve Training.

(a) In the Information Mission Area attribute, the percentage of fill was initially assessed by installation personnel at 60 to 75 percent full. During our inspection we found the fill rate at less than 50 percent.

(b) In the Infrastructure attribute, the initial submission was based only on the main installation's capacity. During our verification we noted that information on the satellite activities was not included in the data. The addition of the data for the satellite activities raised Fort Rucker's capacity in the areas of water treatment, sewage treatment, and electrical distribution.

(c) In the Reserve Training attribute, the numbers reported for Reserve training were correct only for

FY 93 annual training. Inconsistencies in the range reporting format led to incorrect computations. We recalculated the FY 91 and 92 annual training and the FY 91, 92, and 93 inactive duty training.

(2) Personnel at the major command's headquarters worked with Fort Rucker personnel to make sure the data element values reported by Fort Rucker were accurate.

(3) Major command personnel also provided Fort Rucker personnel a last review of the values assigned to each data element before the data was submitted to Headquarters DA. Based on this review Fort Rucker requested that Training and Doctrine Command change some values before it forwards the data.

c. Completeness of Records. Installation personnel generally had adequate documentation to support their reported data values.

(1) Except for one attribute, installation personnel had adequate documentation to support their reported data element values.

(2) Personnel who computed Reserve Training attribute's data element values were not consistent in their format. The current method of computing training days at Fort Rucker does not consider the disbursement of a unit into smaller groups deploying to more than one range. Consequently, some personnel were counted more than once on a given training day, and both the personnel trained and the training days were overstated. Other monthly reports failed to multiply the personnel trained by the training days, and thus understated the training days associated with inactive duty training.

(3) For the remaining data elements, we found that there was a clear decision trail supporting the values reported.

5. **Discussion of Results.** We discussed the results of our review with the appropriate directorate-level personnel as well as other personnel responsible for reporting the specific data elements. They all agreed with our conclusions and agreed to report the changes to Training and Doctrine Command. This report isn't subject to the official command-reply process.

David O. Suter for
RAYMOND L. MCCAULLEY
Regional Auditor General

**DATA ELEMENTS REVIEWED
SPREADSHEET ATTACHMENT**

Data Element	Unit of Measure	Values		Notes
		Reported By Fort Rucker	Verified By Army Audit Agency	
1. Applied Instructional Facilities	Sq.Ft. 000	182	182	
2. Average Age of Facilities	Age Sq.Ft.	32.19	32.19	
3. Barracks (UPH)				
Permanent UOPH Spaces (FCG 72400)	Spaces	772	772	
Permanent UEPH Spaces (FCG 72105)	Spaces	1,822	1,822	
MILCON (FY 92-96)	Spaces	384	384	
Construction Loss	Spaces	(105)	(105)	
Total		2,873	2,873	
4. BASOPS/Mission Population	Dollars/Person/Year	8,622	8,622	1
BASOPS, Account (xxxx96) ABCDEFGHIJMNQSTUWX		58,135,180	58,135,180	
BASOPS, Account (xxxx96) P&Y		5,427,938	5,427,938	
RPM, Accounts (xxxx76/xxxx78) K&L		12,106,189	12,106,189	
Envir Pgms, Account (xxxx56)		3,276,169	3,276,169	
Audio-Visual, Account (xxxx90)		1,693,662	1,693,662	
Base Commo, Account (xxxx95)		2,462,958	2,462,958	
Family Programs, Accounts (878 708/719/720)		1,534,000	1,534,000	
DODRPM 93/94 Total				
Personnel				
Non-Personnel				
Installation Population(ASIP) FY93		9,250	9,250	
5. Buildable Acres	Acres	5,203	5,203	
6. Cost of Living Index	Percent of Avg.	90.1	90.1	

Data Element	Unit of Measure	Values		Notes
		Reported By Fort Rucker	Verified By Army Audit Agency	
7. Deployment Network	Miles			
Railhead Distance	Miles	0	0	
Airport Distance	Miles	22	22	
Seaport Access Distance	Miles	178	178	
Interstate Highway	Miles	71	71	
8. Encroachment	Pop/Sq.Mi.	49	49	
9. Environmental Carrying Capacity				
Archaeological Factor				
Archaeological Site Density	Sites	0	0	
Listed on National Register	Sites	0	0	
Eligible/Potential Sites	Sites	7	7	
Total Acres Surveyed	Acres	43,329	43,329	
Total Installation Acres	Acres	63,503	63,503	
Percent Completed		75%	75%	
Historical Building Factor				
Historical Building Density	Buildings	0	0	
Listed on National Register	Buildings	0	0	
Eligible/Potential Buildings	Buildings	0	0	
Total Buildings Surveyed	Buildings	546	546	
Percent Completed		100%	100%	
Endangered Species Factor				
Total Endangered Species	Species	0	0	
Endangered Fauna	Fauna	0	0	
Endangered Flora	Flora	0	0	
Total Threatened Species	Species	0	0	
Threatened Fauna	Fauna	0	0	2
Threatened Flora	Flora	0	0	
Wetland Factor				
Total Wetland Acreage	Acres	9,573	9,573	
Total Installation Acres	Acres	63,503	63,503	

Data Element	Unit of Measure	Values		Notes
		Reported By Fort Rucker	Verified By Army Audit Agency	
Air Quality Factor: In Attainment (Y/N)		Y	Y	
Water Quality Factor - # NPDES Exceeded		26	26	
Noise Quality Factor	Acres			
Total Acres AICUZ/ICUZ Zone II	Acres	85,197	85,197	
Total Acres AICUZ/ICUZ Zone III	Acres	20,819	20,819	
Contaminated Sites Factor	Sites			
Total Number of IRP Sites	Sites	33	33	
Total Number of NPL Sites	Sites	0	0	
10. Family Housing				
On-post Family Dwelling Units	Units	1,516	1,516	
Off-post Family Dwelling Units	Units	1,867	1,867	
11. Family Housing Cost Per Dwelling Unit				
Average AFHO Costs	Dollars per unit	4,274	4,274	
FY 93 AFH Operations Cost	Dollars per unit	5,154	5,154	
FY 92 AFH Operations Cost	Dollars per unit	3,795	3,795	
FY 91 AFH Operations Cost	Dollars per unit	3,872	3,872	
Number of AFH Units on Post		1,516	1,516	
12. General Instructional Facilities	Sq. Ft./000	239	239	
13. Impact Area				
Impact Acres	Acres	13,159	13,159	
Air Force Bombing Capable	(Y/N)	N	N	
Attack Helicopter Capable	(Y/N)	Y	Y	
Tube Artillery Capable	(Y/N)	Y	Y	
Above Three All	(Y/N)	N	N	
MLRS Capable	(Y/N)	N	N	

Data Element	Unit of Measure	Values		Notes
		Reported By Fort Rucker	Verified By Army Audit Agency	
14. Information Mission Area	Points	1,190	1,230	3
Telephone Switching	Points	500	500	
Main DCO Digital Switch (Y/N)	Points	5	5	
Percentage of Fill	Points	5	5	
Lines (Equipped)	Points	5	5	
Lines (Expandable To)	Points	5	5	
Outside Cable Plant	Points	220	260	
OSCAR Implementation Phase Completed	Points	5	5	
Cable Type (Fiber Backbone, Mixed or Copper)	Points	3	3	
Percentage of Fill	Points	3	5	
Common User Mainframe Architecture	Points	330	330	
Mainframe Type	Points	4	4	
Total MIPS	Points	2	2	
ASIMS (RDC or DPC)	Points	3	3	
E-Mail (Sperry/MMDF, Other or None)	Points	3	3	
Front End Processor (FBP)	Points	5	5	
Super Computer	Points	0	0	
Common User DASD (GIGABYTES)	Points	5	5	
DSN/DDN Node	Points	0	0	
DSN (Y/N)	Points	0	0	
MILNET (Y/N)	Points	0	0	
DISNET (Y/N)	Points	0	0	
SCINET (Y/N)	Points	0	0	
Post Wide WAN/LAN	Points	45	45	
Fiber Optic (Y/N)	Points	0	0	
Other (Y/N)	Points	3	3	
TCC	Points	50	50	
GENSER Type	Points	5	5	
DSSCS Type	Points	5	5	
AMME or ASC (Y/N)	Points	0	0	
Comm Secure Processor (Y/N)	Points	0	0	

Data Element	Unit of Measure	Values		Notes
		Reported By Fort Rucker	Verified By Army Audit Agency	
VTC Facility	Points	45	45	
VTC Facility (Y/N)	Points	3	3	
15. Infrastructure				4
Water Treatment Capability	(MGD)	6.0	7.6	
Sewage Treatment Capability	(MGD)	2.4	3.3	
Electrical Distribution Capability	(KVA)	66,600	74,217	
Land Fill (Dollars per short ton)	Dollars	20	20	
16. Locality Pay Factor	Index as Percent	3.09	3.09	
17. Maneuver Acres	Acres	37,968	37,968	
18. MCA Cost Factor	Index Value	.850	.850	
19. Mechanized Maneuver Acres	Acres	0	0	
20. Mobilization Capability				
Permanent Officer Mob UOPH	Spaces	1,336	1,336	
Permanent Enlisted Mob UEPH	Spaces	4,890	4,890	
Temporary Officer Mob UOPH	Spaces	33	33	
Temporary Enlisted Mob UEPH	Spaces	1,800	1,800	
21. Percent Permanent Facilities	Percent	76	76	
Total Sq. Ft. (Permanant)	(000)	6,004	6,004	
MILCON (FY 92-96)	(000)	427	427	
Total Installation Sq. Ft.	(000)	8,475	8,475	
22. Ranges				
Number of MPRC	Number	0	0	
Number of RETS Equipped				
Firing Points	Number	16	16	

<u>Data Element</u>	<u>Unit of Measure</u>	<u>Values</u>		<u>Notes</u>
		<u>Reported By Fort Rucker</u>	<u>Verified By Army Audit Agency</u>	
Standard MOUT Range Available (Y/N)	Points	0	0	
Total Number of Ranges	Number	14	14	
23. Reserve Training				5
Annual Training (Average)	People	1,762	1,688	
FY 93	People	1,814	1,814	
FY 92	People	2,195	2,420	
FY 91	People	1,276	829	
Inactive Duty Training (Average)	Mandays	16,076	13,598	
FY 93	Mandays	20,311	15,184	
FY 92	Mandays	15,897	15,664	
FY 91	Mandays	12,020	9,945	
24. Special Airspace	Cubic Miles	8,271.5	8,271.5	
25. VHA Factor				
E-5 With Dependents	Dollars	0	0	
W-3 With Dependents	Dollars	0	0	
O-3 With Dependents	Dollars	0	0	
26. Work Space	Sq. Ft. (000)	1,393	1,373	6

Notes

EXPLANATION FOR DIFFERENCES

- 1 - The BASOPS/Mission Population numbers we verified were Fort Rucker's initial submission to the data call, and did not include DODRPM figures as Fort Rucker was not asked to include these numbers. Training and Doctrine Command changed most of Fort Ruckers numbers for this attribute in the last call review (to include providing numbers for the DODRPM) and did not provide any support for these changes so that we could verify them here at Fort Rucker. These numbers should be verified at Training and Doctrine Command.
- 2 - The American alligator which resides on Fort Rucker is no longer endangered or threatened based on its numbers. The alligator was placed on the Federal Registry as an endangered species due to its similarity in appearance to the American crocodile which is endangered. Fort Rucker's ability to perform its mission is not limited due to the existence of the alligator on the installation.
- 3 - The increase of 40 points was caused when Fort Rucker personnel overestimated the percentage of fill subdata element. The element was initially estimated at 60-75% filled when in actuality it is less than 50% filled. This caused an increase in the outside cable plant data element.
- 4 - The initial submission considered only the main installation capacity for all the data elements which make up the infrastructure attribute. During our review we found that information on the satellite installations wasn't included causing the water, sewage, and electrical data elements to increase.
- 5 - The format used to report unit training was inconsistent. Fort Rucker did not account for the splitting of units into smaller groups and training on several ranges during one day. This resulted in individuals being double counted causing the annual training and inactive duty training data elements to be incorrect. We took the raw data and developed a spreadsheet to calculate the Reserve training numbers which were approved by Fort Rucker personnel.
- 6 - The difference of 20,000 square feet was attributed to a typographical error as the subdata elements which comprise the Work Space attribute were valid and totaled to 1,373,000.

Legend

AFH Army Family Housing
 AFHO Army Family Housing Operations
 AICUZ Air Force Installation Compatibility Use Zone
 AMME Automated Multi-Media Exchange
 ASC Automated Switching Center
 ASIMS Army Standard Information Management System
 DASD Direct Access Storage Device
 DCO Dial Central Office
 DISNET Defense Information Systems Network
 DPC Data Processing Center
 DSN Defense Switched Network
 DSSCS Defense Special Security Communications System
 FCG Facility Category Group
 FEP Front End Processor
 GENSER General Service
 ICUZ Installation Compatibility Use Zone
 IRP Installation Restoration Plan
 LAN Local Area Network
 MILNET Military Network
 MIPS Millions of Instructions Per Second
 MLRS Multiple Launch Rocket System
 MMDF Multichannel Memorandum Distribution Facility
 MOUT Mounted Operations and Urban Terrain
 MPRC Multi-Purpose Range Complex
 NPEDES National Pollution Discharge Elimination Systems
 NPL National Priority Listing
 OSCAR Outside Cable Rehabilitation
 RDC Regional Data Center
 RETS Remote Target System
 SCINET Scientific Information Network
 TCC Telecommunications Center
 UEPH Unaccompanied Enlisted Personnel Housing
 UOPH Unaccompanied Officer Personnel Housing
 UPH Unaccompanied Personnel Housing
 VTC Video Teleconference
 WAN Wide Area Network

Document Separator

Undergraduate Pilot Training Data Call

**U.S. Army Aviation Center and
Fort Rucker, Alabama**

**21 September 1994
Audit Report: CR 94-713**



U.S. Army Audit Agency





DEPARTMENT OF THE ARMY
CENTRAL REGION, U.S. ARMY AUDIT AGENCY
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21 September 1994

Director of Management
Director, Army Basing Study Office
Commander, U.S. Army Aviation Center and Fort Rucker

This is our report on the audit of data furnished to the undergraduate pilot training joint cross-service work group. The Director of Management requested the audit. Because the audit was part of a multilocation audit, we will include these results in an overall report to senior Army management.

These are the report's key sections:

- The Summary of the Audit is an overview of what we audited and found.
- General Information tells how we conducted the audit and gives other important information on matters related to the audit.
- Annex A lists detailed information for the data elements reported by the activity. Annex B lists others receiving copies of the report. Annex C lists the audit staff.

This report isn't subject to the command-reply process that AR 36-2 prescribes.

I appreciate the courtesies and cooperation extended to us during the audit.

FOR THE AUDITOR GENERAL:

RAYMOND L. MCCAULLEY
Regional Auditor General

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SUMMARY OF THE AUDIT

WHAT WE AUDITED

We audited the Army's response and supporting documentation for the undergraduate pilot training Joint Cross-Service Work Group's 1995 Base Realignment and Closure data call. The audit focused on procedures that reporting activities used to gather and submit data to the Army Basing Study Office. The Basing Study Office will submit the information to the work group.

The audit was part of a multilocation audit of data furnished to each of the Joint Cross-Service Work Groups. Therefore, we will include the results in a summary report to senior Army management.

OBJECTIVES, CONCLUSIONS, AND SUGGESTED ACTIONS

Our overall objective was to evaluate the accuracy of data the Army furnished the DOD cross-service work groups. We established two specific objectives for the audit. Here are those specific objectives, our conclusions, and suggested actions.

Objective: To determine whether data was prepared in accordance with cross-service work group, DA, and major command guidance.

Conclusion: Generally, data for all 23 elements we reviewed was prepared in accordance with cross-service work group, DA, and major command guidance. Aviation Center and Fort Rucker didn't comment on the usability of the installation for undergraduate pilot training, which was requested in the guidance as part of one data element. Command personnel stated they were unsure of how to answer the request so they didn't respond.

The requested comment on usability gives command an opportunity to provide information--not addressed elsewhere in the data call--which may be useful to the cross-service work group.

Suggested Action: Command should comment on the usability of the installation for undergraduate pilot training.

Objective: To determine whether data reported was accurate and adequately supported.

Conclusion: Data command reported for 20 of the 23 data elements was accurate and adequately supported. One data element wasn't accurate, and two data elements weren't adequately supported.

Command's reported amounts for the data element of additional capacity in flight operations per hour to be gained, given no operational funding constraints were inaccurate. Command used only operations in the most active month of FY 93 to report this data element. By using the most active month, command overstated the current level of activity. We believe that if command used an average of all months for the fiscal year, it would more accurately portray current levels of activity and, also, portray additional capacity to be gained. Command calculated the additional capacity by subtracting the current level of activity from the maximum capacity.

The two data elements that weren't adequately supported were additional capacity to be gained in terms of:

- Flight operations per hour, given no construction/equipment funding constraints.
- Student hours, given no construction/equipment funding constraints.

Command responded to the flight operations element by stating that given unlimited construction/equipment funding, any desired amount of capacity could be achieved. Command replied to the student hours element with the comment that Fort Rucker would have unlimited capabilities if unlimited resources were provided. Neither of these responses provided meaningful data, adequately supported by documentation to the cross-service work group.

Details on the 23 elements we reviewed and the differences we noted are in Annex A.

Suggested Actions:

Command should revise its reply addressing additional capacity to be gained in flight operations per hour, given no operational funding constraints. The reply will provide a more accurate response if the current level of activity is based on an average of all months for the fiscal year, rather than the most active month.

Command should resubmit its response for the data elements additional capacity to be gained--in terms of both flight operations per hour and student hours--given no construction/equipment funding constraints. (We suggested, and command is considering, assigning unit costs to the two unsupported elements. By assigning unit costs, command

could graph capacity to be gained for any level of funding. Command stated that support for the cost data could be obtained from the databases.)

We discussed the results of our review and suggested actions with command personnel on 30 June 1994. Command personnel expressed no objections to our suggested actions and wanted to reserve any comments until they received the final audit report.

AUDIT SCOPE AND METHODOLOGY

We performed the audit:

- At the request of the Director of Management.
- From June through July 1994.

We performed the audit, in most material respects, in accordance with generally accepted government auditing standards. Accordingly, we tested internal controls to the extent we considered necessary under the circumstances. We didn't follow certain aspects of the fieldwork and reporting standards. In our opinion, however, not following those standards had no material effect on the results of our audit.

The audit covered transactions representative of operations current at the time of the audit.

We:

- Reviewed cross-service work group, DA, and major command guidance and compared it with procedures used by Fort Rucker personnel to respond to the cross-service group data call.
- Interviewed personnel from the Directorate of Plans, Training, Mobilization and Security; the Directorate of Public Works; and the Aviation Training Brigade. These personnel helped prepare, review, and validate responses to the data elements.
- Tracked responses to data elements to supporting documentation including regulations, architectural and engineering drawings, memorandums, and maps.
- Verified calculations of data values.
- Observed training facilities to verify classroom space for student capacity.
- Reviewed 23 data elements from several hundred the cross-service work group included in the data call. Personnel from the Office of the Inspector General, DOD, assisted us in selecting the more significant data elements for our review.

BACKGROUND

The Defense Base Closure and Realignment Act of 1990, as amended, provides DOD a means to make needed adjustments to the installation structure. Deputy Secretary of Defense 1995 Base Realignment and Closure guidance memorandum, dated 7 January 1994, established several Office of the Secretary of Defense-led study groups to evaluate opportunities for cross-service base realignment and closure actions. Those work groups focus on:

- Medical treatment facilities and graduate medical education centers.
- Test and evaluation facilities.
- Laboratory facilities.
- Undergraduate pilot training.
- Military depot maintenance activities.
- Economic impact.

Each of the work groups prepared a data call requiring activities to provide information needed for assessing and identifying cross-service opportunities. The Chief of Staff issued a 21 March 1994 memorandum implementing Office of Secretary of Defense guidance and providing procedural instructions for Army data calls. Generally, each of the Army activities identified in the cross-service data calls were to furnish responses to the major commands which provided certified data to the Army Basing Study Office. The Army Basing Study Office then provided consolidated data to each of the cross-service work groups.

RESPONSIBILITIES

The Assistant Secretary of the Army (Installations, Logistics and Environment) is responsible for policy and management of all Base Realignment and Closure initiatives.

The Army Basing Study Office, established 1 August 1993, serves as the single Army staff point of contact for Base Realignment and Closure 1995. The Director, Army Basing Study Office has staff responsibility for:

- Army liaison with joint cross-service work groups.
- Establishing and disseminating cross-service and DA guidance to major commands and reporting activities.

As the Army's single point of contact for Base Realignment and Closure, the Army Basing Study Office was also responsible for:

- Receiving and reviewing cross-service data furnished by major commands and reporting activities.
- Forwarding data to the cross-service work groups.
- Reviewing and supporting Army recommendations to the cross-service work groups.

ANNEXES

REVIEW OF REPORTED DATA ELEMENTS

Data Element	Support	Adequate?	Reported Value	Verified Value	Explanation of Difference
Number of aircraft on base for training	<ul style="list-style-type: none"> Hand receipts (current year) USAAVNC Aircraft requirement—from TRADOC (outyears) 	Yes	See attachment 1	Same	
Annual operations (sorties flown) by aircraft	<ul style="list-style-type: none"> Aviation Management Information System (input from pilot records) 	Yes	See attachment 2	Same	
Average number of daylight flying hours per day	<ul style="list-style-type: none"> USAAVNC Reg 350-3 	Yes	See attachment 3	Same	
Daylight UPT sorties lost last three years	<ul style="list-style-type: none"> Mission Profile (input from pilot records) 	Yes	See attachment 4	Same	
Average number of operations/hour the airfield can support	<ul style="list-style-type: none"> USAAVNC Reg 95-2 FAA 7110.65H, "Air Traffic Control" FAA Regs Ptn 152 FAA "Altman's Information Manual" 	Yes	See attachment 5	Same	
Additional capacity in flight operations (without operational funding constraints)	<ul style="list-style-type: none"> FY 93 Traffic Count (compiled by 1st of the 11th, Air Traffic Control Battalion) 	Yes	See attachment 6	Reported value based on most active month; recommended value based on yearly average	
Additional capacity in flight operations (without construction funding constraints)	<ul style="list-style-type: none"> No response from Command 	No	No value reported	No value to verify	Provide a specific value based on sound methodology
Maximum sortie generating capacity/year	<ul style="list-style-type: none"> Current maintenance contract and aircraft mix 	Yes	See attachment 7	Same	
Requested measures & comments about the usability of the facility for UPT	<ul style="list-style-type: none"> USA COB drawings (requested measures) No comments from Command 	Yes	See attachment 8	Same	
Limitation of transit corridors between train areas & air station	<ul style="list-style-type: none"> Installation Compatible Use Zone Study—from Higginbotham/Biggs & Assoc., Architects & Planners 	Yes	No limitations	No limitations	
List of all special use airspace	<ul style="list-style-type: none"> New Orleans Sectional Aeronautical Chart, 33rd Ed. Memorandum for Director, USASA, 14 Jan 94, Subject: Special Use Airspace, Cubic Square Miles 	Yes	See attachment 9	Same	
Deployments to other domestic locations	<ul style="list-style-type: none"> Interview (no deployments to other locations) 	Yes	No deployments	No deployments	
Additional capacity in student hours (without operational funding constraints)	<ul style="list-style-type: none"> Observation of classroom facilities 	Yes	See attachment 10	Same	
Additional capacity in student hours (without construction funding constraints)	<ul style="list-style-type: none"> No response from Command 	No	No value reported	No value to verify	Provide a specific value based on sound methodology
Number of aircraft based and parked on aprons	<ul style="list-style-type: none"> USA COB Drawings USAAVNC Reg 95-2 Bell Helicopter/Textron Contract: New Training Helicopter Program 	Yes	See attachment 11	Same	

REVIEW OF REPORTED DATA ELEMENTS

ANNEX A

Data Element	Support	Adequate?	Reported Value	Verified Value	Explanation of Difference
Separation between aircraft & obstructions limiting placement of planes on aprons	• TM 5-803-4, Chapter 7, Parking Aprons	Yes	See attachment 12	Same	
Maximum number of aircraft housed in hangars	• Dyncomp CAD program • Contract DABT01-92-R-0072	Yes	See attachment 13	Same	
Obstructions limiting placement of planes in hangars	• Dyncomp CAD program • Contract DABT01-92-R-0072 • TM 55-1520-210-10	Yes	No obstructions	No obstructions	
Maximum number of aircraft maintained at installation	• Historical Supplement, USAAVNG • Interviews with Vietnam-era employees	Yes	1147	1147	
New military missions planned for installation	• Interview (no new missions planned)	Yes	No new missions	No new missions	
Possibility of increasing utilization of airspace	• AR 95-2 • Memo for DARR to FAA, Southern Region, 27 Oct 93, Subject: Restricted Area/Military Operations Area Utilization	Yes	Yes	Yes	
Whether increased in terms of volume or hours of use	• New Orleans Sectional Aeronautical Chart, 53rd Ed. • FAA Joint Use Restricted Area Letters of Procedure	Yes	Both	Both	
Whether commercial operators pose constraints on operations	• USAAVNG Regulation 210-5	Yes	No constraints	No constraints	

- DARR - DA Regional Representative
- FAA - Federal Aviation Administration
- TM - Technical Manual
- TRADOC - U.S. Army Training and Doctrine Command
- UPT - Undergraduate Pilot Training
- USAAVNC - U.S. Army Aviation Center
- USAAVNS - U.S. Army Aviation School
- USACOE - U.S. Army Corps of Engineers

Attachment 1

NUMBER OF AIRCRAFT ON BASE FOR TRAINING

Total Aircraft by Type and Fiscal Year

<u>Aircraft</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>
AH-1	33	22	22	22	22	22	22	22
AH-64	9	10	6	9	4	4	4	4
AH-64A	57	69	51	48	53	53	30	30
AH-64D	0	0	0	0	0	0	18	24
C-12	2	4	4	4	4	4	4	4
C-23	0	0	0	0	0	0	0	0
CH-47D	21	22	22	22	22	22	22	22
H-3	0	0	0	0	0	0	0	0
OH-58A/C	73	69	63	60	60	60	60	60
OH-58D	40	40	40	40	40	40	40	40
OV-1	5	0	0	0	0	0	0	0
TH-67	45	135	119	130	130	130	130	130
U-21	4	5	3	3	3	3	3	3
UH-1	206	215	115	89	88	88	88	88
UH-60	48	35	35	35	35	35	35	35

NUMBER OF AIRCRAFT ON BASE FOR TRAINING

Cairns Aircraft by Type and Fiscal Year

<u>Aircraft</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>
AH-1	3	4	4	4	2	2	2	2
AH-64	9	10	6	9	4	4	4	4
AH-64A								
AH-64D								
C-12	2	4	4	4	4	4	4	4
C-23								
CH-47D	4	4	4	4	4	4	4	4
H-3								
OH-58A/C	2	2	2	2	2	2	2	2
OH-58D	7	5	5	4	4	4	4	4
OV-1	5							
TH-67	27	40	31	34	34	34	34	34
U-21	4	5	3	3	3	3	3	3
UH-1	71	92	44	36	36	36	36	36
UH-60	48	35	35	35	35	35	35	35

Attachment 1

NUMBER OF AIRCRAFT ON BASE FOR TRAINING

Hanchey Aircraft by Type and Fiscal Year

<u>Aircraft</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>
AH-1	30	18	18	18	20	20	20	20
AH-64								
AH-64A	57	69	51	48	53	53	30	30
AH-64D							18	24
C-12								
C-23								
CH-47D	17	18	18	18	18	18	18	18
H-3								
OH-58A/C								
OH-58D	33	35	35	36	36	36	36	36
OV-1								
TH-67								
U-21								
UH-1								
UH-60								

NUMBER OF AIRCRAFT ON BASE FOR TRAINING

Low Aircraft by Type and Fiscal Year

<u>Aircraft</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>
AH-1								
AH-64								
AH-64A								
AH-64D								
C-12								
C-23								
CH-47D								
H-3								
OH-58A/C	71	67	61	58	58	58	58	58
OH-58D								
OV-1								
TH-67	18	95	88	96	96	96	96	96
U-21								
UH-1	135	123	71	53	52	52	52	52
UH-60								

Attachment 1

NUMBER OF AIRCRAFT NOT USED FOR TRAINING

By Type and Fiscal Year

<u>Aircraft</u>	<u>FY94</u>	<u>FY95</u>	<u>FY96</u>	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>
AH-1		1	1	1	1	1	1	1
AH-64		6	4	4	4	4	4	4
AH-64A								
AH-64D								
C-12		3	3	4	4	4	4	4
C-23		2	2	2	2	2	2	2
CH-47D		1	1	1	1	1	1	1
H-3		2	2	2	2	2	2	2
OH-58A/C		3	2	2	2	2	2	2
OH-58D		2	1	1	1	1	1	1
OV-1								
TH-67								
U-21		4	4	3	3	3	3	3
UH-1		19	11	11	4	4	4	4
UH-60		6	6	5	11	11	11	11

SORTIES FLOWN/BY AIRCRAFT TYPE AND FISCAL YEAR

<u>Airfield</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Allen **UH-1**			
Operational			
Undergraduate Training	22,800	15,900	19,500
Graduate Training			
Training Support			
Other			
Total Sorties	22,800	15,900	19,500
Non-operational			
Standowns	9	9	9
Maintenance			
Brown **OH-58**			
Operational			
Undergraduate Training	7,740	6,480	7,560
Graduate Training	5,160	4,320	5,040
Training Support			
Other			
Total Sorties	12,900	10,800	12,600
Non-operational			
Standowns	14	14	14
Maintenance			
Cairns AAF **UH-1**			
Operational			
Undergraduate Training	161,393	209,806	140,277
Graduate Training			
Training Support	15,962	18,244	17,338
Other			
Total Sorties	177,355	228,050	157,615
Non-operational			
Standowns			
Maintenance			
Cairns AAF **UH-60**			
Operational			
Undergraduate Training	30,849	48,838	53,807
Graduate Training	35,363	41,715	32,284
Training Support	9,029	11,192	11,739
Other			
Total Sorties	75,241	101,745	97,830
Non-operational			
Standowns			
Maintenance			

Attachment 2

SORTIES FLOWN/BY AIRCRAFT TYPE AND FISCAL YEAR

<u>Airfield</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Cairns AAF **U-21**			
Operational			
Undergraduate Training			
Graduate Training	6,589	4,784	5,002
Training Support	591	421	435
Other			
Total Sorties	7,180	5,205	5,437
Non-operational			
Standowns			
Maintenance			
Cairns AAF **C-12**			
Operational			
Undergraduate Training			
Graduate Training	6,880	5,269	5,329
Training Support	140	108	109
Other			
Total Sorties	7,020	5,377	5,438
Non-operational			
Standowns	24	24	24
Maintenance			
Cairns AAF **OV-1**			
Operational			
Undergraduate Training			
Graduate Training	6,600	4,833	4,616
Training Support	537	421	814
Other			
Total Sorties	7,137	5,254	5,430
Non-operational			
Standowns	24	24	24
Maintenance			
Highbluff **UH-60**			
Operational			
Undergraduate Training	7,332	6,156	8,052
Graduate Training	8,268	5,244	5,148
Training Support			
Other			
Total Sorties	15,600	11,400	13,200
Non-operational			
Standowns	14	14	14
Maintenance			

SORTIES FLOWN/BY AIRCRAFT TYPE AND FISCAL YEAR

<u>Airfield</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Hooper **UH-1**			
Operational			
Undergraduate Training	32,700	17,100	9,600
Graduate Training			
Training Support			
Other			
Total Sorties	32,700	17,100	9,600
Non-operational			
Standowns	9	9	9
Maintenance			
Hunt **AH-1**			
Operational			
Undergraduate Training	11,458	8,165	7,709
Graduate Training	3,422	1,915	2,851
Training Support			
Other			
Total Sorties	14,880	10,080	10,560
Non-operational			
Standowns	14	14	14
Maintenance			
Hunt **OH-58D**			
Operational			
Undergraduate Training			
Graduate Training	3,720	2,520	2,640
Training Support			
Other			
Total Sorties	3,720	2,520	2,640
Non-operational			
Standowns	14	14	14
Maintenance			
Lowe AHP **UH-1**			
Operational			
Undergraduate Training	223,702	173,292	100,663
Graduate Training	12,856	12,090	28,398
Training Support	20,571	16,120	17,600
Other			
Total Sorties	257,129	201,502	146,661
Non-operational			
Standowns	20	20	20
Maintenance			

Document Separator

Attachment 2

SORTIES FLOWN/BY AIRCRAFT TYPE AND FISCAL YEAR

<u>Airfield</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Lucas **UH-1**			
Operational			
Undergraduate Training	15,600	17,100	16,200
Graduate Training			
Training Support			
Other			
Total Sorties	15,600	17,100	16,200
Non-operational			
Standowns	9	9	9
Maintenance			
Runkle **UH-1**			
Operational			
Undergraduate Training	10,640	3,850	3,225
Graduate Training	5,560	33,050	2,475
Training Support			
Other			
Total Sorties	16,200	36,900	5,700
Non-operational			
Standowns			
Maintenance			
Skelly **UH-1**			
Operational			
Undergraduate Training	21,000	12,600	8,700
Graduate Training			
Training Support			
Other			
Total Sorties	21,000	12,600	8,700
Non-operational			
Standowns	9	9	9
Maintenance			
Stinson **UH-1**			
Operational			
Undergraduate Training	32,400	27,300	36,810
Graduate Training			
Training Support			
Other			
Total Sorties	32,400	27,300	36,810
Non-operational			
Standowns	14	14	14
Maintenance			

SORTIES FLOWN/BY AIRCRAFT TYPE AND FISCAL YEAR

<u>Airfield</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Toth **UH-1**			
Operational			
Undergraduate Training	8,400	1,500	10,800
Graduate Training			
Training Support			
Other			
Total Sorties	8,400	1,500	10,800
Non-operational			
Standowns			
Maintenance			
Ech **AH-64**			
Operational			
Undergraduate Training			
Graduate Training	11,100	11,700	10,680
Training Support			
Other			
Total Sorties	11,100	11,700	10,680
Non-operational			
Standowns	14	14	14
Maintenance			
Goldberg **CH-47**			
Operational			
Undergraduate Training			
Graduate Training	11,900	6,610	6,840
Training Support			
Other			
Total Sorties	11,900	6,610	6,840
Non-operational			
Standowns	14	14	14
Maintenance			
Hanchey AHP **AH-1**			
Operational			
Undergraduate Training	27,646	30,231	23,681
Graduate Training	7,953	5,384	7,662
Training Support	2,272	5,798	3,482
Other			
Total Sorties	37,871	41,413	34,825
Non-operational			
Standowns	20	20	20
Maintenance			

Attachment 2

SORTIES FLOWN/BY AIRCRAFT TYPE AND FISCAL YEAR

<u>Airfield</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Hanchey AHP **AH-64**			
Operational			
Undergraduate Training			
Graduate Training	42,340	41,239	29,034
Training Support	6,892	5,623	3,959
Other			
Total Sorties	49,232	46,862	32,993
Non-operational			
Standowns	20	20	20
Maintenance			
Hanchey AHP **CH-47**			
Operational			
Undergraduate Training			
Graduate Training	18,708	8,936	8,139
Training Support	5,277	1,962	2,859
Other			
Total Sorties	23,985	10,898	10,998
Non-operational			
Standowns	20	20	20
Maintenance			
Hanchey AHP **OH-58D**			
Operational			
Undergraduate Training			
Graduate Training	13,179	8,239	11,034
Training Support	1,969	1,569	1,796
Other			
Total Sorties	15,148	9,808	12,830
Non-operational			
Standowns	20	40	20
Maintenance			
Shell AHP **OH-58A/C**			
Operational			
Undergraduate Training	119,206	85,343	80,957
Graduate Training	63,597	45,516	43,177
Training Support	15,894	11,379	10,795
Other			
Total Sorties	198,697	142,238	134,929
Non-operational			
Standowns	20	20	20
Maintenance			

AVERAGE NUMBER OF FLYING HOURS PER DAY

	<u>Daylight</u>	<u>Night</u>
Average flying hours per day:		
FY 91	2904	2904
FY 92	2904	1452
FY 93	2904	1452

DAYLIGHT UNDERGRADUATE PILOT TRAINING SORTIES LOST LAST THREE YEARS

<u>Aircraft</u>	<u>Factor</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Graduate, Undergraduate, or Both</u>
AH-1	Weather	6.75%	5.80%	5.92%	Both
	Maintenance	0.84%	1.84%	1.27%	
	Other	1.91%	1.03%	0.80%	
	Total	9.50%	8.67%	7.99%	
AH-64	Weather	6.37%	5.78%	5.33%	Graduate
	Maintenance	2.16%	8.20%	10.46%	
	Other	1.51%	0.51%	0.62%	
	Total	10.05%	14.48%	16.41%	
OH-58D	Weather	6.92%	8.91%	5.31%	Graduate
	Maintenance	1.47%	3.62%	4.08%	
	Other	3.78%	2.03%	1.49%	
	Total	12.17%	14.56%	10.88%	
CH-47D	Weather	6.42%	6.04%	6.29%	Graduate
	Maintenance	8.49%	6.78%	4.38%	
	Other	1.14%	0.63%	0.46%	
	Total	16.05%	13.45%	11.13%	
OH-58A/C	Weather	12.50%	7.54%	7.64%	Both
	Maintenance	0.20%	0.76%	0.69%	
	Other	4.74%	1.92%	1.68%	
	Total	17.45%	10.21%	9.98%	

DAYLIGHT UNDERGRADUATE PILOT TRAINING SORTIES LOST LAST THREE YEARS

<u>Aircraft</u>	<u>Factor</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Graduate, Undergraduate, or Both</u>
UH-60	Weather	10.09%	6.07%	7.15%	Both
	Maintenance	2.96%	3.11%	3.09%	
	Other	2.60%	1.07%	1.34%	
	Total	15.65%	10.24%	11.58%	
UH-1	Weather	11.45%	6.77%	8.61%	Both
	Maintenance	2.53%	0.53%	0.23%	
	Other	1.59%	0.49%	0.49%	
	Total	15.56%	7.79%	9.34%	
OV-1	Weather	3.98%	2.71%	4.06%	Graduate
	Maintenance	2.16%	1.60%	0.74%	
	Other	1.59%	0.62%	0.74%	
	Total	7.74%	4.93%	5.54%	

Attachment 5

AVERAGE NUMBER OF OPERATIONAL HOURS AIRFIELDS CAN SUPPORT

<u>Basefields</u>	<u>Operational Hours</u>
Shell	348
Lowe	390
Hanchey	480
Cairns	210
 <u>Stagefields</u>	
Allen	432
Brown	432
Ech	360
Goldberg	288
Hatch	432
Highbluff	360
Hooper	432
Hunt	288
Louisville	288
Lucas	432
Runkle	216
Skelly	288
Stinson	432
Tabernacle	288
Toth	360

**ADDITIONAL CAPACITY IN FLIGHT OPERATIONS-NO OPERATIONAL
FUNDING CONSTRAINTS**

Additional Operational Hours

<u>Stagefields</u>	<u>Originally Reported</u>	<u>Suggested Changes</u>
Allen	272	318
Brown	369	388
Ech	307	323
Goldberg	248	264
Hatch	432	432
Highbluff	309	316
Hooper	352	386
Hunt	222	248
Louisville	288	288
Lucas	308	333
Runkle	173	184
Skelly	229	242
Stinson	249	303
Tabernacle	288	288
Toth	242	305

Attachment 7

MAXIMUM SORTIE-GENERATING CAPACITY PER YEAR

<u>Aircraft</u>	<u>Maximum Capacity</u>
AH-64	27,900
AH-1F	16,200
OH-58D(I)	18,900
OH-58A/C	47,700
CH-47D	9,900
UH-1H	128,700
UH-60	22,500
TH-67	23,400
OV-1	2,700
C-12	400
U-21	2,700

REQUESTED MEASURES AND COMMENTS ABOUT USABILITY FOR
UNDERGRADUATE PILOT TRAINING

<u>FIELD</u>	<u>CAT CODE</u>	<u>FACILITY TYPE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>
Allen	111	Runways, Fixed Wing	SY	0
	111	Runways, Rotor Wing	53,328 SY	6
	111	Parking Pads	1,067 SY	12
	113	Parking Aprons	48,433 SY	1
	113	Access Aprons	SY	0
	121	Direct Fueling	OL/GM	0
	121	Truck Fueling	OL/GM	0
	121	Defueling	OL/GM	0
	124	Fuel Storage	GA	0
	136-36 (USN)	Carrier Lighting	EA	0
	149	Arresting Gear	EA	0
	421	Amunition Storage	CF	0
	422 (AF)	Ammunition Storage	CF	0
	425	Open Ammunition Storage	SY	0
	Brown	111	Runways, Fixed Wing	SY
111		Runways, Rotor Wing	80,000 SY	6
111		Parking Pads	1,600 SY	18
113		Parking Aprons	44,778 SY	1
113		Access Aprons	SY	0
121		Direct Fueling	OL/GM	0
121		Truck Fueling	OL/GM	0
121		Defueling	OL/GM	0
124		Fuel Storage	GA	0
136-36 (USN)		Carrier Lighting	EA	0
149		Arresting Gear	EA	0
421		Amunition Storage	CF	0
422 (AF)		Ammunition Storage	CF	0
425		Open Ammunition Storage	SY	0

**REQUESTED MEASURES AND COMMENTS ABOUT USABILITY FOR
UNDERGRADUATE PILOT TRAINING**

<u>FIELD</u>	<u>CAT CODE</u>	<u>FACILITY TYPE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>
Cairns AAF	111	Runways, Fixed Wing	160,000 SY	2
	111	Runways, Rotor Wing	SY	0
	111	Parking Pads	18,347 SY	199
	113	Parking Aprons	176,750 SY	11
	113	Access Aprons	38,479 SY	1
	121	Direct Fueling	OL/GM	0
	121	Truck Fueling	OL/GM	0
	121	Defueling	OL/GM	0
	124	Fuel Storage	GA	0
	136-36 (USN)	Carrier Lighting	EA	0
	149	Arresting Gear	EA	0
	421	Amunition Storage	CF	0
	422 (AF)	Ammunition Storage	CF	0
	425	Open Ammunition Storage	SY	0
	Highbluff	111	Runways, Fixed Wing	SY
111		Runways, Rotor Wing	66,670 SY	5
111		Parking Pads	SY	0
113		Parking Aprons	22,587 SY	1
113		Access Aprons	SY	0
121		Direct Fueling	OL/GM	0
121		Truck Fueling	OL/GM	0
121		Defueling	OL/GM	0
124		Fuel Storage	GA	0
136-36 (USN)		Carrier Lighting	EA	0
149		Arresting Gear	EA	0
421		Amunition Storage	CF	0
422 (AF)		Ammunition Storage	CF	0
425		Open Ammunition Storage	SY	0

REQUESTED MEASURES AND COMMENTS ABOUT USABILITY FOR
UNDERGRADUATE PILOT TRAINING

<u>FIELD</u>	<u>CAT CODE</u>	<u>FACILITY TYPE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>
Hunt	111	Runways, Fixed Wing	SY	0
	111	Runways, Rotor Wing	73,333 SY	4
	111	Parking Pads	SY	0
	113	Parking Aprons	48,473 SY	1
	113	Access Aprons	SY	0
	121	Direct Fueling	OL/GM	0
	121	Truck Fueling	OL/GM	0
	121	Defueling	OL/GM	0
	124	Fuel Storage	GA	0
	136-36 (USN)	Carrier Lighting	EA	0
	149	Arresting Gear	EA	0
	421	Amunition Storage	CF	0
	422 (AF)	Ammunition Storage	CF	0
	425	Open Ammunition Storage	SY	0
	Lowe AAF	111	Runways, Fixed Wing	SY
111		Runways, Rotor Wing	SY	0
111		Parking Pads	12,230 SY	13
113		Parking Aprons	171,488 SY	1
113		Access Aprons	11,674 SY	1
121		Direct Fueling	OL/GM	0
121		Truck Fueling	OL/GM	0
121		Defueling	OL/GM	0
124		Fuel Storage	GA	0
136-36 (USN)		Carrier Lighting	EA	0
149		Arresting Gear	EA	0
421		Amunition Storage	CF	0
422 (AF)		Ammunition Storage	CF	0
425		Open Ammunition Storage	SY	0

REQUESTED MEASURES AND COMMENTS ABOUT USABILITY FOR
UNDERGRADUATE PILOT TRAINING

<u>FIELD</u>	<u>CAT CODE</u>	<u>FACILITY TYPE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>
Lucas	111	Runways, Fixed Wing	SY	0
	111	Runways, Rotor Wing	80,000 SY	6
	111	Parking Pads	1,600 SY	18
	113	Parking Aprons	44,778 SY	1
	113	Access Aprons	SY	0
	121	Direct Fueling	OL/GM	0
	121	Truck Fueling	OL/GM	0
	121	Defueling	OL/GM	0
	124	Fuel Storage	GA	0
	136-36 (USN)	Carrier Lighting	EA	0
	149	Arresting Gear	EA	0
	421	Amunition Storage	CF	0
	422 (AF)	Ammunition Storage	CF	0
	425	Open Ammunition Storage	SY	0
	Runkle	111	Runways, Fixed Wing	SY
111		Runways, Rotor Wing	39,999 SY	3
111		Parking Pads	2,711 SY	61
113		Parking Aprons	22,653 SY	1
113		Access Aprons	SY	0
121		Direct Fueling	OL/GM	0
121		Truck Fueling	OL/GM	0
121		Defueling	OL/GM	0
124		Fuel Storage	GA	0
136-36 (USN)		Carrier Lighting	EA	0
149		Arresting Gear	EA	0
421		Amunition Storage	CF	0
422 (AF)		Ammunition Storage	CF	0
425		Open Ammunition Storage	SY	0

REQUESTED MEASURES AND COMMENTS ABOUT USABILITY FOR
UNDERGRADUATE PILOT TRAINING

<u>FIELD</u>	<u>CAT CODE</u>	<u>FACILITY TYPE</u>	<u>UNIT MEASURE</u>	<u>QUANTITY</u>
Skelly	111	Runways, Fixed Wing	SY	0
	111	Runways, Rotor Wing	88,888 SY	4
	111	Parking Pads	120 SY	6
	113	Parking Aprons	SY	0
	113	Access Aprons	SY	0
	121	Direct Fueling	OL/GM	0
	121	Truck Fueling	OL/GM	0
	121	Defueling	OL/GM	0
	124	Fuel Storage	GA	0
	136-36 (USN)	Carrier Lighting	EA	0
	149	Arresting Gear	EA	0
	421	Amunition Storage	CF	0
	422 (AF)	Ammunition Storage	CF	0
	425	Open Ammunition Storage	SY	0
	Stinson	111	Runways, Fixed Wing	SY
111		Runways, Rotor Wing	80,000 SY	6
111		Parking Pads	1,600 SY	18
113		Parking Aprons	44,778 SY	1
113		Access Aprons	SY	0
121		Direct Fueling	OL/GM	0
121		Truck Fueling	OL/GM	0
121		Defueling	OL/GM	0
124		Fuel Storage	GA	0
136-36 (USN)		Carrier Lighting	EA	0
149		Arresting Gear	EA	0
421		Amunition Storage	CF	0
422 (AF)		Ammunition Storage	CF	0
425		Open Ammunition Storage	SY	0

Document Separator

SPECIAL USE AIRSPACE

ARTCC - Air Route Traffic Control Center

MOA - Military Operations Area

NM - Nautical Miles

The following Military Operations Areas are within 100 NM of Ft. Rucker, but the requested information isn't available at Ft. Rucker:

Pensacola South and Pensacola North

Camden Ridge

Pine Hill East

Eglin A East, A West, B, C, D, E, and F

Rose Hill

Benning

Moody 1 and Moody 2

Tyndall A, B, C, D, E, and G

Alert Areas:

Name: A-211

Location: Ft. Rucker, AL

Size: 9,000 sq. mi. (area)
0.871 st. mi. (altitude)
104.94 cu. mi. (volume)

Available times: 0600-2200 M-F

Airspace Controlling Activity: NA

Scheduling Activity: Commanding General, U.S. Army Aviation Center, Ft. Rucker, AL

Method of Scoring/Recording: NA

Proximity to Airport Traffic Areas: There are five areas of Class D airspace within A-211. Four of the areas--Shell, Andalusia, Troy, and Cairns--are in direct support of the flight training mission of the installation. The fifth area--Dothan--is within 25 air miles of A-211.

SPECIAL USE AIRSPACE

Provider of radar/communications coverage/control: Cairns Army Radar Approach Control (radar and communications)

Owner of land under training airspace: There is no requirement to control the surface under A-211.

Distance en route: Immediate proximity (four of five areas). 25 NM (one area).

Environmental limitations impeding mission: None

Land, sea, or air encroachments endangering long-term availability: None

The following Alert Areas are within 100 NM of Ft. Rucker, but the requested information isn't available at Ft. Rucker:

A-292

Percentage of possible increase in usable airspace:

Usable airspace: 37.5% possible increase (8,000 to 11,000 sq. mi.)

Density: 346.4% possible increase (one aircraft every 44.64 sq. mi. to one aircraft every 10 sq. mi.)

Attachment 10

ADDITIONAL CAPACITY IN STUDENT HOURS

<u>Training Facility</u>	<u>Current Capacity</u>	<u>Projected Capacity</u>	<u>Gain In Capacity</u>
5202	743,424	2,230,272	1,486,848
5301	557,568	1,672,704	1,115,136
5203	557,568	1,672,704	1,115,136
5302	526,592	1,579,776	1,053,184
5206	1,002,848	3,008,544	2,005,696
6022	737,616	2,212,848	1,475,232
5207A	429,792	1,289,376	859,584
5207B	518,848	1,556,544	1,037,696
5205	77,440	232,320	154,880
6005	137,456	412,368	274,912
9007	48,400	145,200	96,800
Totals	5,337,552	16,012,656	10,675,104

NUMBER OF AIRCRAFT BASED AND PARKED ON APRONS

<u>Airfield</u>	<u>Aircraft</u>	<u>Quantity</u>
Hanchey	AH-64	63
	CH-47	15
	AH-1	19
	O-58D	81
Lowe	UH-1	43
	TH-67	110
	OH-58A/C	71
Cairns	UH-1	19
	TH-67	105
	UH-60	49
	OV-1	5
	C-12	2
	U-21	5
	OH-58A/C	5
	OH-58D	7
	AH-1	3
	AH-64	9
CH-47	4	
Shell	UH-1	43
	OH-58	43
Knox	UH-60	26
	UH-1	4
	OH-58	16
	AH-64	18

Attachment 12

OBSTRUCTIONS LIMITING PLACEMENT OF PLANES ON APRON

<u>Aircraft</u>	<u>Parking Dimensions</u>	<u>Separation</u>
UH-1	80' x 80'	80'
AH-1	80' x 80'	80'
OH-58A/C	80' x 80'	80'
UH-60	80' x 160'	160'
AH-64	80' x 160'	160'
CH-47	110' x 100'	100'
TH-67	80' x 80'	80'
C-12	44' x 55'	55'
OV-1	44' x 55'	55'
U-21	44' x 55'	55'

MAXIMUM NUMBER OF AIRCRAFT TO BE HOUSED IN HANGARS

<u>Aircraft</u>	<u>Maximum</u>
UH-1	133
OH-58A/C	125
UH-60	64
TH-67	32
C-12	2
U-21	5
AH-64	105
H-3	2
C-23	2
AH-1	6
CH-47	1
OH-58D	44

OTHERS RECEIVING COPIES OF THE REPORT

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Assistant Secretary of the Army (Installations, Logistics
and Environment)
Assistant Secretary of the Army (Manpower and Reserve
Affairs)
Assistant Secretary of the Army (Research, Development and
Acquisition)
Director of the Army Staff
The Inspector General
Chief of Legislative Liaison
Chief of Public Affairs
Deputy Chief of Staff for Operations and Plans
Deputy Chief of Staff for Personnel
Deputy Chief of Staff for Logistics
Assistant Chief of Staff for Installation Management
Chief of Engineers
Commanders
 U.S. Army Training and Doctrine Command
 U.S. Army Materiel Command
 U.S. Army Criminal Investigation Command
 Third Region, U.S. Army Criminal Investigation Command
Commandant, U.S. Army Logistics Management College
Director, Center for Army Lessons Learned

Comptroller, Department of Defense
Inspector General, Department of Defense
Directors
 Defense Intelligence Agency
 Defense Logistics Studies Information Exchange
Auditor General, Air Force Audit Agency
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AUDIT STAFF

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Winifred C. Curran
Ben V. Scheffer
Jerry P. Smith

MICOM Field Office

Joseph W. Beard
Jerry R. Hopper
George R. Cash

Fort Rucker Field Office

Jason M. McVey

... possible increase in ...
... 0.5% ...
... 0.4% possible ... every 10 ...

A-292

... available at Ft ...
... requested information ...
... air enclosure ...
... information ...
... source ...
... under ...
... communication ...

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DEPARTMENT OF THE ARMY
CENTRAL REGION, U.S. ARMY AUDIT AGENCY
12140 WOODCREST EXECUTIVE DRIVE
ST. LOUIS, MISSOURI 63141-5046



REPLY TO
ATTENTION OF

SAAG-CER (36-5e)

05 AUG 1994

MEMORANDUM FOR Director, U.S. Army Redstone Arsenal
Technical Test Center, ATTN: STERT-TE,
Redstone Arsenal, Alabama 35898-8052

SUBJECT: Review of Data Furnished DOD Cross-Service Work
Groups -- INFORMATION MEMORANDUM CR 94-710

1. **Introduction.** This is the report on our review of the data your center provided for the test and evaluation data call for the DOD cross-service work group. The Director of Management requested the review. We will include results in this report in a summary report to higher levels of management.

2. **Objectives and Scope.** The overall objective of our review was to evaluate the accuracy of data the Army furnished DOD cross-service work groups. Our specific objectives were to determine whether data furnished was:

- Accurate.
- Supported by reasonable documentation.
- In accordance with cross-service work group, DA, and major command guidance.

We made the review during June and July 1994. In most material respects, we made the review in accordance with generally accepted government auditing standards. And accordingly, we tested internal controls to the extent we considered necessary under the circumstances. We didn't follow certain aspects of the fieldwork and reporting standards. In our opinion, however, not following those standards had no material effect on the results of our review.

To evaluate the accuracy of data furnished DOD cross-service groups, we:

- Reviewed cross-service work group, DA, and major command guidance and compared it with procedures used by Redstone Technical Test Center personnel to respond to the DOD cross-service work group data call.

- Interviewed personnel from Redstone Technical Test Center who helped prepare, review, and validate responses to the data elements.
- Tracked responses to data elements to supporting documentation including accounting systems, memorandums, internal reports, and historical workload data.
- Tested the accuracy of selected source documentation.
- Verified calculations of data values.

3. **Background.**

a. **Cross-Service Work Groups.** The Defense Base Closure and Realignment Act of 1990, as amended, provides DOD a means to make needed adjustments to the installation structure. Deputy Secretary of Defense 1995 Base Realignment and Closure guidance memorandum, dated 7 January 1994, established several Office of the Secretary of Defense-led study groups to evaluate opportunities for cross-service base realignment and closure actions. Those work groups focus on:

- Medical treatment facilities and graduate medical education centers.
- Test and evaluation facilities.
- Laboratory facilities.
- Undergraduate pilot training.
- Military depot maintenance activities.
- Economic impact.

Each of the work groups prepared a data call requiring activities to provide general information needed to assess and identify cross-service opportunities.

b. **Army Process.** The Chief of Staff, U.S. Army issued a 21 March 1994 memorandum implementing the DOD guidance and providing procedural instructions for Army data calls. Army guidance required responses from each activity identified in the cross-service data calls. Activities were to furnish these responses to their major commands. The major commands provided certified data to the Army Basing Study Office. The Army Basing Study Office will then provide data to each of the cross-service work groups. This memorandum addresses your center's response to the Army Basing Study Office for the test and evaluation data call.

c. **Test and Evaluation Data Call.** The test and evaluation data call consisted of 94 data elements. The data elements included a mix of objective and subjective information about the center's mission, workload, and facilities. These questions were developed by the cross-service group to identify excess capacity and other cross-service opportunities.

Redstone Technical Test Center--a subordinate command of U.S. Army Test and Evaluation Command--was required to provide responses for four test facilities. Those test facilities are the Component Test Facility, Induced Environment Facility, Non-Destructive and Natural Environments Range, and the Small Missile Range. For each test facility's response, we evaluated the accuracy and supporting documentation of 23 of the 94 data elements. We reviewed the 23 data elements that focused on excess capacity, workload, and facilities.

4. **Results of Review.** Overall, data provided by the Redstone Technical Test Center was generally accurate. However, some corrections are needed. Details on the elements we reviewed and differences noted are in the annex. Conclusions on specific objectives follow:

a. **Accuracy of Reported Data.** Redstone Technical Test Center's data call response had some errors. We identified the following errors that should be corrected and reported to the U.S. Army Test and Evaluation Command:

- For data element 3.1.B (Facility Condition), all four test facilities used acquisition cost to report the replacement cost of their respective facilities. We believe this significantly understates the actual cost to replace their facilities.
- The Component Test Facility reported unconstrained capacity of 133,719 hours (data element 2.2.A). The actual unconstrained capacity is 1,333,719 hours. The error was caused by a miscalculation of the reported data.
- The Component Test Facility and the Induced Environment Facility omitted upgrades valued at \$1.1 million and \$325,000, respectively, from data element 3.1.B (Facility Condition).
- The Component Test Facility identified a Millimeter Wave Facility as a capital improvement (data element 3.1.E.4) programmed for FY 95. The facility is ongoing and below the threshold of a capital project.

b. **Supporting Documentation.** Redstone Technical Test Center generally maintained sufficient supporting documentation for all of the elements reviewed. In cases where the center didn't have records or the capability to track and monitor the requested data, personnel kept records that clearly explained their logic and any assumptions made in answering the requested data element.

c. **Compliance With Cross-Service, DA, and Major Command Guidance.** Generally, the center gathered and reported data consistent with cross-service work group, DA, and major command guidance. For example, the center's director certified the data was accurate to the best of his knowledge.

5. **Discussion of Results.** We discussed the results of our review with Redstone Technical Test Center personnel on 12 July 1994. They agreed with our conclusions and said that action had been or would be taken to correct and retransmit corrected data element responses to U.S. Army Test and Evaluation Command. This report isn't subject to the official command-reply process.

6. Thank you for the courtesies and cooperation extended to us during the review.


RAYMOND L. MCCAULLEY
Regional Auditor General

CF:
Inspector General, Department of Defense
Army Basing Study Office
U.S. Army Test and Evaluation Command
U.S. Army Missile Command

Component Test Facility

Data Call Reference Number	Source	Adequate	Result																				
2.1.B.1	U.S. Army Test and Evaluation Command	Yes	Program Elements 23801, 63757, 63392, 64816, 23802, 62303, 63238, CA0252, C16000, CA0260, CE8710, CA0286, C18600, C20000, CA0267, CA0275, C49200, C35200, CA0255, C22200, C70300, AA0968, AA0977, C70100, E37335, E37337, E37333, E37334, CA0253, C59403, C61700																				
2.1.B.2	In-house workload reports	Yes	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>FY 92</u></td> <td></td> <td style="text-align: center;"><u>FY 93</u></td> </tr> <tr> <td>A/W</td> <td>= 97.9 workyears</td> <td>A/W</td> <td>= 116.8 workyears</td> </tr> <tr> <td>Other T&E</td> <td>= 98.0 workyears</td> <td>Other T&E</td> <td>= 84.5 workyears</td> </tr> <tr> <td>A/W</td> <td>- Armaments/weapons</td> <td></td> <td></td> </tr> <tr> <td>T&E</td> <td>- Test and Evaluation</td> <td></td> <td></td> </tr> </table>		<u>FY 92</u>		<u>FY 93</u>	A/W	= 97.9 workyears	A/W	= 116.8 workyears	Other T&E	= 98.0 workyears	Other T&E	= 84.5 workyears	A/W	- Armaments/weapons			T&E	- Test and Evaluation		
	<u>FY 92</u>		<u>FY 93</u>																				
A/W	= 97.9 workyears	A/W	= 116.8 workyears																				
Other T&E	= 98.0 workyears	Other T&E	= 84.5 workyears																				
A/W	- Armaments/weapons																						
T&E	- Test and Evaluation																						
2.2.A	Branch Chiefs	No	Reported 133,719 hours of annual unconstrained capacity, should be 1,333,719 hours of annual unconstrained capacity.																				
2.3.A	Deputy Director	Yes	No role in approved war plans.																				
	Technology Development and Acquisition Plan	No	(1) Acquisition value (\$48 million) used as replacement cost; replacement value would be significantly higher (no estimate available). (2) 3 upgrades planned but not reported (estimated cost of \$1.125 million).																				
3.1.C.1	Environmental Assessment	Yes	Limit of 600,000 pounds of propellant burned is actually an estimate.																				
3.1.C.5.A	Branch Chiefs	Yes	Reported 3 tests canceled because of commercial or public use.																				
3.1.C.6	Branch Chiefs	Yes	Reported 3 tests canceled because of encroachment.																				
3.1.E.1	Branch Chiefs	Yes	No special aspects that would enhance this facility.																				
3.1.E.2	Branch Chiefs	Yes	No adjacent land suitable for expansion to support new missions or increased footprints.																				

Component Test Facility

3.1.E.3	Branch Chiefs	Yes	Can support all levels of secure operations.
3.1.E.4	Major Construction Activity project administrator	No	Reported a millimeter wave facility as programmed for FY 95; facility is ongoing and below the threshold of a capital project.
3.1.G.1	Branch Chiefs and map of facility	Yes	1.4 square miles.
3.1.G.7	Branch Chiefs and map of facility	Yes	4.5 vertical miles; 0 horizontal miles.
3.1.H.1	Branch Chiefs	Yes	Hills/Forest, 1 square mile; Open lowlands, 0.4 square miles.
3.1.I.10	Branch Chiefs	Yes	0.5 percent of time.
3.2.B.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.6	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.3.A.2	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.
3.3.B.1	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.

Component Test Facility

3.4.A.1	Branch Chiefs	Yes	Not applicable; don't test directed energy weapons.
3.4.B.1.A	Branch Chiefs and map of facility	Yes	1.4 square miles.

Induced Environments Test Facility

Data Call Reference Number	Source	Adequate	Result																				
2.1.B.1	U.S. Army Test and Evaluation Command	Yes	Program Elements 23801, 63757, 63392, 64816, 23802, 62303, 63238, CA0252, C16000, CA0260, CE8710, CA0286, C18600, C20000, CA0267, CA0275, C49200, C35200, CA0255, C22200, C70300, AA0968, AA0977, C70100, E37335, E37337, E37333, E37334, CA0253, C59403, C61700																				
2.1.B.2	In-house workload reports	Yes	<table> <tr> <td>A/W</td> <td><u>FY 92</u></td> <td>A/W</td> <td><u>FY 93</u></td> </tr> <tr> <td></td> <td>= 22.8 workyears</td> <td></td> <td>= 23.9 workyears</td> </tr> <tr> <td>Other T&E</td> <td>= 51.8 workyears</td> <td>Other T&E</td> <td>= 54.4 workyears</td> </tr> <tr> <td colspan="4">A/W - Armaments/Weapons</td> </tr> <tr> <td colspan="4">T&E - Test and Evaluation</td> </tr> </table>	A/W	<u>FY 92</u>	A/W	<u>FY 93</u>		= 22.8 workyears		= 23.9 workyears	Other T&E	= 51.8 workyears	Other T&E	= 54.4 workyears	A/W - Armaments/Weapons				T&E - Test and Evaluation			
A/W	<u>FY 92</u>	A/W	<u>FY 93</u>																				
	= 22.8 workyears		= 23.9 workyears																				
Other T&E	= 51.8 workyears	Other T&E	= 54.4 workyears																				
A/W - Armaments/Weapons																							
T&E - Test and Evaluation																							
2.2.A	Branch Chiefs	Yes	411,720 hours of unconstrained capacity.																				
2.3.A	Deputy Director	Yes	No role in approved war plans.																				
	Technology Development and Acquisition Plan	No	(1) Acquisition value (\$41.8 million) used as replacement cost; replacement value would be significantly higher (no estimate available). (2) 3 upgrades planned; only 2 reported (missing upgrade estimated to cost \$325,000).																				
3.1.C.1	Environmental Assessment	Yes	No limiting environmental or encroachment characteristics.																				
3.1.C.5.A	Branch Chiefs	Yes	No test missions canceled.																				
3.1.C.6	Branch Chiefs	Yes	No test missions canceled.																				
3.1.E.1	Branch Chiefs	Yes	No special aspects that would enhance this facility.																				
3.1.E.2	Branch Chiefs	Yes	No adjacent land suitable for expansion to support new missions or increased footprints.																				

Induced Environments Test Facility

3.1.E.3	Branch Chiefs	Yes	Can support all levels of secure operations.
3.1.E.4	Major Construction Activity project administrator	Yes	No capital projects planned.
3.1.G.1	Branch Chiefs and map of facility	Yes	0.3 square miles.
3.1.G.7	Branch Chiefs and map of facility	Yes	4.9 vertical miles; 0 horizontal miles.
3.1.H.1	Branch Chiefs	Yes	0.3 square miles of cultivated lowland.
.10	Branch Chiefs	Yes	Data not available.
3.2.B.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.6	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.3.A.2	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.
3.3.B.1	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.

Induced Environments Test Facility

3.4.A.1	Branch Chiefs	Yes	Not applicable; don't test directed energy weapons.
3.4.B.1.A	Branch Chiefs and map of facility	Yes	Not applicable; don't conduct flight tests.

Non-Destructive and Natural Environments Test Facility

Data Call Reference Number	Source	Adequate	Result										
2.1.B.1	U.S. Army Test and Evaluation Command	Yes	Program Elements 23801, 63757, 63392, 64816, 23802, 62303, 63238, CA0252, C16000, CA0260, CE8710, CA0286, C18600, C20000, CA0267, CA0275, C49200, C35200, CA0255, C22200, C70300, AA0968, AA0977, C70100, E37335, E37337, E37333, E37334, CA0253, C59403, C61700										
2.1.B.2	In-house workload reports	Yes	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center;"><u>FY 92</u></td> <td style="width: 50%; text-align: center;"><u>FY 93</u></td> </tr> <tr> <td>A/W = 34.8 workyears</td> <td>A/W = 27.6 workyears</td> </tr> <tr> <td>Other T&E = 68.7 workyears</td> <td>Other T&E = 74.9 workyears</td> </tr> <tr> <td colspan="2">A/W - Armaments/Weapons</td> </tr> <tr> <td colspan="2">T&E - Test and Evaluations</td> </tr> </table>	<u>FY 92</u>	<u>FY 93</u>	A/W = 34.8 workyears	A/W = 27.6 workyears	Other T&E = 68.7 workyears	Other T&E = 74.9 workyears	A/W - Armaments/Weapons		T&E - Test and Evaluations	
<u>FY 92</u>	<u>FY 93</u>												
A/W = 34.8 workyears	A/W = 27.6 workyears												
Other T&E = 68.7 workyears	Other T&E = 74.9 workyears												
A/W - Armaments/Weapons													
T&E - Test and Evaluations													
2.2.A	Branch Chiefs	Yes	566,845 hours of unconstrained capacity.										
2.3.A	Deputy Director	Yes	No role in approved war plans.										
	Technology Development and Acquisition Plan	No	(1) Acquisition value (\$40.5 million) used as replacement cost; replacement value would be significantly higher (no estimate available). (2) 2 upgrades planned.										
3.1.C.1	Environmental Assessment	Yes	No limiting environmental or encroachment characteristics.										
3.1.C.5.A	Branch Chiefs	Yes	No test missions canceled.										
3.1.C.6	Branch Chiefs	Yes	No test missions canceled.										
3.1.E.1	Branch Chiefs	Yes	No special aspects that would enhance this facility.										
3.1.E.2	Branch Chiefs	Yes	No adjacent land suitable for expansion to support new missions or increased footprints.										

Non-Destructive and Natural Environments Test Facility

3.1.E.3	Branch Chiefs	Yes	Can support all levels of secure operations.
3.1.E.4	Major Construction Activity project administrator	Yes	No capital projects planned.
3.1.G.1	Branch Chiefs and map of facility	Yes	5.8 square miles.
3.1.G.7	Branch Chiefs and map of facility	Yes	3.5 nautical miles.
3.1.H.1	Branch Chiefs	Yes	Forest/Jungle, 1 square mile; Cultivated lowland, 4.8 square miles.
10	Branch Chiefs	Yes	Data not available.
3.2.B.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.6	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.3.A.2	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.
3.3.B.1	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.

Non-Destructive and Natural Environments Test Facility

3.4.A.1	Branch Chiefs	Yes	Not applicable; don't test directed energy weapons.
3.4.B.1.A	Branch Chiefs and map of facility	Yes	5.8 square miles.

Small Missile Range

Data Call Reference Number	Source	Adequate	Result																				
2.1.B.1	U.S. Army Test and Evaluation Command	Yes	Program Elements 23801, 63757, 63392, 64816, 23802, 62303, 63238, CA0252, C16000, CA0260, CE8710, CA0286, C18600, C20000, CA0267, CA0275, C49200, C35200, CA0255, C22200, C70300, AA0968, AA0977, C70100, E37335, E37337, E37333, E37334, CA0253, C59403, C61700																				
2.1.B.2	In-house workload reports	Yes	<table border="0"> <tr> <td></td> <td style="text-align: center;"><u>FY 92</u></td> <td></td> <td style="text-align: center;"><u>FY 93</u></td> </tr> <tr> <td>A/W</td> <td>= 8.1 workyears</td> <td>A/W</td> <td>= 9.7 workyears</td> </tr> <tr> <td>Other T&E</td> <td>=101.6 workyears</td> <td>Other T&E</td> <td>=100.7 workyears</td> </tr> <tr> <td colspan="4">A/W - Armaments/Weapons</td> </tr> <tr> <td colspan="4">T&E - Test and Evaluation</td> </tr> </table>		<u>FY 92</u>		<u>FY 93</u>	A/W	= 8.1 workyears	A/W	= 9.7 workyears	Other T&E	=101.6 workyears	Other T&E	=100.7 workyears	A/W - Armaments/Weapons				T&E - Test and Evaluation			
	<u>FY 92</u>		<u>FY 93</u>																				
A/W	= 8.1 workyears	A/W	= 9.7 workyears																				
Other T&E	=101.6 workyears	Other T&E	=100.7 workyears																				
A/W - Armaments/Weapons																							
T&E - Test and Evaluation																							
2.2.A	Branch Chiefs	Yes	323,390 hours of unconstrained capacity.																				
2.3.A	Deputy Director	Yes	No role in approved war plans.																				
	Technology Development and Acquisition Plan	No	(1) Acquisition value (\$75.4 million) used as replacement cost; replacement value would be significantly higher (no estimate available). (2) 2 upgrades planned.																				
3.1.C.1	Environmental Assessment	Yes	No limiting environmental or encroachment characteristics.																				
3.1.C.5.A	Branch Chiefs	Yes	No test missions canceled.																				
3.1.C.6	Branch Chiefs	Yes	No test missions canceled.																				
3.1.E.1	Branch Chiefs	Yes	Type of testing is constrained by land; no land available.																				
3.1.E.2	Branch Chiefs	Yes	No adjacent land suitable for expansion to support new missions or increased footprints.																				

Small Missile Range

3.1.E.3	Branch Chiefs	Yes	Can support all levels of secure operations.
3.1.E.4	Major Construction Activity project administrator	Yes	No capital projects planned.
3.1.G.1	Branch Chiefs and map of facility	Yes	13.3 square miles.
3.1.G.7	Branch Chiefs and map of facility	Yes	6 nautical miles.
3.1.H.1	Branch Chiefs	Yes	Mountains, 1.5 square miles; Forest/Jungle, 1.5 square miles; Cultivated lowland, 10.3 square miles.
.10	Branch Chiefs	Yes	Data not available.
3.2.B.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.1	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.2.C.6	Deputy Director	Yes	Not applicable; don't test air vehicles.
3.3.A.2	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.
3.3.B.1	Deputy Director	Yes	Not applicable; don't test electronic combat systems or subsystems.

Small Missile Range

3.4.A.1	Branch Chiefs	Yes	Not applicable; don't test directed energy weapons.
3.4.B.1.A	Branch Chiefs and map of facility	Yes	13.3 square miles.